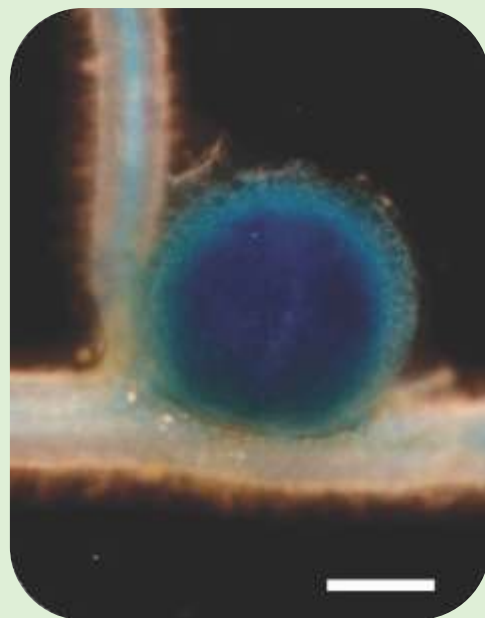




ANNUAL REPORT 2017-18



राष्ट्रीय पादप जीनोम अनुसंधान संस्थान, नई दिल्ली
National Institute of Plant Genome Research, New Delhi

Toolbox for understanding chickpea root nodule development

Top panel: The pictures show nodule-specific GUS expression driven by leghemoglobin promoters (right, 1.5 kb; left, 0.5 kb).

Bottom panel: BCIG histochemical staining shows presence of *Mesorhizobium ciceri* containing LacZ plasmid in the nodules. This bacteria induces root nodules in the chickpea roots. Scale bar 1mm.





Vision

To generate new knowledge in the area of plant genomics, assimilate it with current knowledge and translate the same for genetic enhancement of plants for social benefits

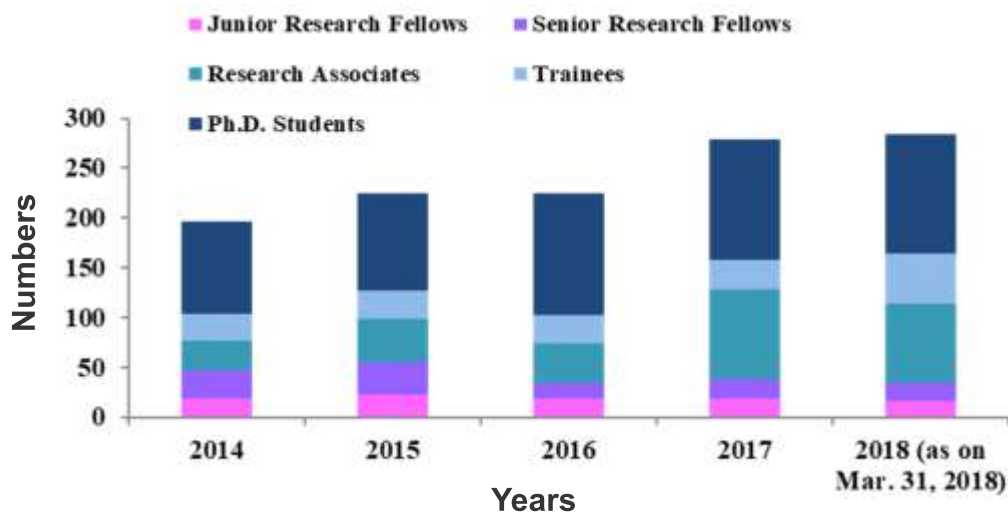
Mission

To undertake, aid, promote guide and coordinate research of high calibre in basic and applied plant molecular biology

Research Areas

1. Genome analysis and molecular breeding
2. Development and signalling
3. Plant responses to abiotic stresses
4. Plant-microbe/insect interactions
5. Computational biology
6. Nutritional traits in crops

Human Resource Development



Achievements

Ph.D. awarded : [111 (21*)]

Publications: [824 (142*)]

Patents and products : [44 (3*)]

Lectures delivered: [715 (116*)]

Lectures organized : [124 (16*)]

Conference and workshops: [55 (5*)]

Students visit : [58 (7*)]

Awards and recognitions: [135 (12*)]

[*2017-2018 (as on March, 2018)]

National Institute of Plant Genome Research, New Delhi

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Mandate

- Undertaking high caliber scientific research in advanced areas of fundamental and applied plant molecular biology;
- Providing effective linkages between various scientific and research agencies in the country on plant genes and related areas;
- Utilizing molecular biology approaches along with tissue culture and genetic engineering technology to identify important genes and manipulate them for generating transgenic plants with improved agronomic characters and pathogen/stress resistance;
- Undertaking fundamental research work related to gene-regulation and mapping;
- Utilizing molecular breeding for genetic improvement of crops for important traits;
- Understanding molecular basis of plant-microbe interactions;
- Imparting advance training in the field of plant genetic engineering and genome analysis;
- Undertaking collaborative programmes with various Universities/Institutes that are engaged in plant genome research.

Preamble



The National Institute of Plant Genome Research (NIPGR) is an autonomous research institute funded by the Department of Biotechnology (DBT), Government of India. The Institute has witnessed exponential growth in its research programs since its inception over 19 years ago and has become well recognized both nationally and internationally. The Institute conducts basic and applied research in plant molecular biology on topics ranging from genome analysis, development, adaptation to biotic and abiotic stresses, computational biology and nutritional genomics. Currently, the Institute has 29 scientists, who are leading independent groups covering cutting-edge research in these areas. The academic year 2017-2018 continued to be highly productive and a number of high-quality research articles were published, many in high impact journals. Further, the Institute has filed three national/international patents and of which one has been granted. The number of students in the Ph.D. program and the researchers involved in various projects has continued to increase. In the past academic year, the Institute has organized several national /international conferences/symposia. A large number of school/college students from all over the country have visited the Institute. Furthermore, the Institute is continuously upgrading its research infrastructure to effectively pursue its twin goals of conducting high-quality basic research and seeking application towards product development.

In terms of publications, the seminal research on bacterial mycophagy of *Rhizoctonia solani* has been published this year in *Nature Communications*. Further, in an Indo-UK collaboration, three papers have been published in *Nature Communications* on the mechanisms of plant adaptation to growth on low phosphate. These papers describe the following findings. 1. The root angle in rice plants in response to external phosphate is under the control of rice actin-binding protein RMD; 2. The elongation of rice root hairs in response to low phosphate is influenced by auxin influx carrier protein OsAUX1; 3. A mechanistic framework to explain the elongation of root hairs in response to low phosphate levels has been provided in the model plant, *Arabidopsis thaliana*.

A molecular marker for large seed size has been identified in chickpea. This has been used in marker-assisted selection for transfer of large seed characteristic into a commercially important desi chickpea variety. This leads to a 15-20% increase in yield. This line is to be introduced into national multi-locational field trials conducted by ICAR for possible release as a variety. Another important pulse crop of our country is lentil. The availability of genomic resources that can be used in genetic analysis and crop improvement for lentil is limited. NIPGR scientists have developed genomic resources for lentil and utilized them to map agronomically important traits such as seed size, seed weight and days to flowering. In the long term, the objective is to use these markers for breeding high yielding varieties of lentil. Aschochyta blight (AB) is a severe disease of chickpea. Indian varieties are susceptible to AB. The genetic basis of AB resistance in chickpea has been elucidated using next-generation sequencing based robust multiple QTL-seq techniques and classical mapping in a bi-parental population. A major QTL that provides resistance in chickpea against AB has been identified and a candidate gene that falls under the QTL has been identified. In collaboration with Indian Agricultural Research Institute, New Delhi, a program is being developed to breed Indian chickpea varieties that exhibit resistance against AB as well as Fusarium wilt, another severe chickpea disease in India.

Previously, an anti-fungal protein produced by the mycophagous bacterium identified at NIPGR has been purified. This protein has been tested under greenhouse conditions for efficacy in the protection of rice plants against sheath blight disease caused by *R. solani*. The results indicate that, under greenhouse conditions, rice plants that have been treated with this protein show minimal symptoms of sheath blight as compared to control plants that exhibit extensive disease symptoms. A master regulator of plant defense responses called RAV1 has been identified in *A. thaliana*. Through network analysis, sixteen key plant defense genes have been identified in *A. thaliana*. Overexpression of RAV1 in *A. thaliana* results in enhanced expression of these 16 defense genes along with other key defense functions and enhanced tolerance to *R. solani* as well as the bacterial pathogen *Pseudomonas syringae* pv. tomato. While exploring the mechanism by which a generalist insect pest *Spodoptera litura* infects *A. thaliana*, the importance of a plasma membrane localized, cyclic nucleotide-gated, Ca²⁺ channel (CNGC19) in recognition of self-damage and activation of induced defense upon herbivory has been established. Mutants that are defective in this gene are more susceptible to *Spodoptera* infestation.

In the area of plant responses to abiotic stresses, the mechanism of formation of aerenchymatous tissue has been studied in wheat roots. Aerenchyma is characterized by the presence of air pockets within intercellular spaces and is a well-conserved response of plant tissues to flooding. The production of nitric oxide has been shown to be responsible for the formation of aerenchyma and appears to act upstream to ethylene signal transduction. A novel rice gene called *OsRSM1* (root system modulator 1) has been identified which modulates the response of rice roots to low phosphate. Rice plants overexpressing *OsRSM1* accumulate more phosphate and grow better on low phosphate than wild-type plants. *OsRSM1* is a transcription factor and its overexpression promotes phosphorous uptake from low P soils by increasing lateral root number and root hair length. Water deficiency conditions are known to induce lignin deposition in roots. The *LACCASE2* (LAC2) gene of *A. thaliana* has been found to act as a negative regulator of lignin deposition in root vascular tissues during water deficit. Further, a novel micro RNA (miR397b) has been found to post-transcriptionally regulate the expression of LAC2 in roots under normal and water deficit conditions. Through a series of elegant experiments, the regulatory role of miR397b-LAC2 module in root lignification during water- and phosphate deficiency has been established. In yet another interesting study, the novel function of a glucose-regulated Hikeshi Like Protein 1 (HLP1) in providing thermotolerance/thermomemory response has been established.

Arabidopsis SKP1-like protein13 (ASK13) has been found to positively influence seed germination and seedling growth, particularly under abiotic stresses. Further, mutations of the plant-specific FCS-Like Zinc Finger Proteins FLZ6 and FLZ10 lead to slow growth of *Arabidopsis* plants. It is demonstrated that FLZ6 and FLZ10 are negative regulators of the plant kinase SnRK1 which in turn is a negative regulator of the universal growth promoter TOR1. The FLZ6 and FLZ10 mutants exhibit enhanced expression of SnRK1 and reduced expression of TOR1 causing their slow growth phenotype.

RNAi mediated suppression of a critical regulatory gene has been shown to reduce glucosinolate levels in Indian mustard. A collaborative proposal between NIPGR and University of Delhi South campus for performing event selection trials on these lines has received funding from BIRAC. The flanking sequences for insertions in three such transgenic lines have been obtained and found to lie in inter-genic regions. The best line from the event selection trials will be taken forward for translation.

Finally, I express appreciation to Dr. Senthil K. Muthappa, Dr. Gopaljee Jha and their team consisting of administrative/technical staff of NIPGR for preparation of the annual report 2017-18.

Ramesh V. Sonti
Director



Highlights of the Scientific Achievements

Highlights of the Scientific Achievements

The highlights of the scientific achievements of National Institute of Plant Genome Research during 2017-2018 under seven major research areas of the Institute are given below:

A. Genome analysis and molecular breeding

Genomic and transcriptomic resources for gene discovery and molecular mapping in lentil **(PI: Sabhyata Bhatia)**

Genomic and genetic resources such as ESTs, molecular markers, linkage maps and QTLs are essential for crop improvement. However, these resources are still limited in important legumes such as lentil (*Lens culinaris Medik.*), which is valued worldwide as a rich source of dietary protein. Therefore, transcriptomes of the 3 parental genotypes of two RIL mapping populations – one intraspecific *L. culinaris* (Precoz X L830) and one interspecific (*L. culinaris* L830 X *L. orientalis* ILWL77), segregating for yield traits were analysed for generation of molecular markers (SSRs and SNPs). The *de novo* transcriptome assembly of Precoz resulted in 42,196 non-redundant high-quality transcripts that were annotated variously into GO categories, KEGG pathways and COG classes of proteins. Further, the transcriptome data set was scanned for the presence of SSRs. Similarly, the transcriptome sequencing of another cultivated variety, L830 resulted in 41,822 non-redundant transcripts. SSRs were mined in these transcripts. Polymorphic SSRs (587) were identified between the transcriptomes of Precoz and L830. In addition to this, 47,268 SNPs were also identified between these two varieties. Further, several SSRs and SNPs present in tissue-specific and transcription factor encoding transcripts were also identified.

Delineation of functional molecular signature enhancing seed weight in chickpea **(PI: Swarup K. Parida)**

Identification of functionally relevant molecular tags is vital for genomics-assisted crop improvement to develop nutritionally-enriched high-yielding cultivars of chickpea. Simultaneous improvement of yield/productivity as well as quality traits often require pyramiding of multiple genes which often remains a major hurdle considering various associated epistatic and pleiotropic effects. Unfortunately, no single gene, which can improve yield/productivity along with quality and other desirable agro-morphological traits, is known so far thereby, hampering genetic enhancement in chickpea. Using a combinatorial genomics-assisted breeding (GWAS, QTL/fine mapping, map-based cloning and molecular haplotyping) and functional genomic strategy, natural alleles and haplotypes delineated from an ABC transporter gene, CaABCC3(6) regulates seed weight, an important domestication trait, by modulating transport of glutathione conjugates in seeds of desi and kabuli chickpea. The efficiency of these molecular tags was ascertained in the desi and kabuli NILs harboring the superior allele/haplotype of a CaABCC3(6) gene, generated by haplotype-assisted foreground and background selection. Gene haplotype-assisted selection was found

much superior than the conventional marker-aided selection for maximum recovery of recurrent parental genome and selection of most-promising recombinants of NILs in order to accelerate chickpea crop improvement.

B. Development and signalling

A NAC gene from rice positively regulates seed development

(PI: Pinky Agarwal)

The selected NAC gene is a positive regulator of rice seed development. It controls grain size along with synthesis of seed storage proteins and starch. When expressed during the vegetative stages, it hampers growth by activating the seed development machinery, and affecting the meristematic growth of the plant. In terms of its molecular mechanism, it is a transcriptional activator, which is nuclear localized upon heterodimerization.

OsRSM1 improves nutrient acquisition by modulating root system architecture

(PI: Jitender Giri)

Given the key roles of Phosphorus (P) in both structural and functional aspects in plant life cycle, its deficiency is bound to derail crop yield. Indian soils are largely phosphorus deficient and P-fertilisers are used for boosting crop yield. Rice is the largest consumer of P fertilisers but has a very poor P-use-efficiency. Improved root architecture has been targeted to improve Pi acquisition in rice using transgenic approach. A bHLH transcription factor, identified from our previous transcriptome study and named as *OsRSM1*, enhanced root growth on overexpression in rice. Transgenics showed longer root hair, branched laterals and more crown root number. When grown in P-poor soil, *OsRSM1* overexpressing lines accumulated more P and other minerals than wild-type plants. It was further revealed that *OsRSM1* bring about these changes in root by altering auxin homeostasis. Positive results obtained using *OsRSM1* indicate its important roles in regulating plant response in terms of root architecture alterations under P deficiency and established *OsRSM1* as a key candidate to target for improving P-use-efficiency of rice.

Understanding the mechanism of photosynthesis, sucrose transport, and leaf developmental differences across cultivated and wild rice

(PI: Ashish Ranjan)

We have observed remarkable variation in net leaf photosynthesis across cultivated and wild rice, with some wild rice species having higher net photosynthesis. The higher photosynthesis in wild rice is also associated with larger mesophyll cell size and chlorophyll content. These wild species also showed higher expression of some of the genes encoding core photosynthetic enzymes. Higher photosynthesis in wild rice prevailed across a wide range of CO² concentration and PAR intensity, suggesting the possibility of efficient Rubisco in wild rice. We are currently testing the Rubisco activity as well as expression pattern of transcriptional factors regulating photosynthetic genes in wild and cultivated rice. These wild and cultivated rice also differed drastically for their leaf morphology, with wild species showing larger and/or wider leaves and larger shoot apical meristem. We are generating stage specific leaf developmental transcriptome for cultivated and wild rice to

investigate the genetic basis of leaf developmental differences. Results indicate that PLASTOCHRON (PLA) genes could be the candidates for leaf initiation differences across cultivated and wild rice. Our results also suggest that inefficient partitioning of sucrose to panicle/grain in wild rice could be due to abnormal vascular architecture and/or defective sucrose transporter genes.

Auxin mediated *LRP1* expression regulates Arabidopsis root development

(PI: Ananda K. Sarkar)

LRP1 belongs to a plant specific *SHI/STY* protein family having nine members, which redundantly regulate leaf and gynoecium development. We showed that *LRP1* is highly expressed in both shoot and root tissues, and different stages of LR development. We further showed that auxin induces the expression of *LRP1* and that *LRP1* acts downstream to IAA28-ARFs and SLR/IAA14-ARF7-ARF19 auxin signaling modules during LR development. Overexpression of *LRP1* affected both shoot and root development. Overexpression of *LRP1* resulted in elongated primary root and reduced LR density indicating its role in root growth and branching. Together, our results show that auxin inducible *LRP1* acts downstream to auxin signaling module involved in LR development.

Physiological and molecular characterization of root developmental plasticity under low nitrate availability

(PI: Amar Pal Singh)

Nitrogen (N) availability to the plants severely affects different traits of plant growth and development by changing physiological and biochemical parameters. N is more abundant in deeper soil layers due to its high mobility hence promoting deeper root system to cope the limited N availability in topsoils. Very little is known about the role of auxin and brassinosteroid (BR) in regulating the primary root growth and N homeostasis under N deficit condition. We aim to identify the putative candidate(s) that are involved in primary root elongation and N homeostasis in auxin and BR dependent manner under deficit N condition. We found that N availability severely affects primary root growth in Arabidopsis in a dose-dependent manner. Our results show that low N promotes primary root elongation by reducing auxin (2, 4-D) sensitivity. Cellular analysis of the roots treated with 2,4-D shows that low N increases final cell size and early differentiation of meristematic zone cells independent of exogenous auxin as compared to the corresponding controls treated with sufficient N (20 mM) or 2,4-D. Further, we are investigating the molecular mechanism(s) of auxin-BR interaction and the putative candidates that are involved in primary root elongation and N homeostasis under low N availability.

Mediator subunit, *OsMed15a*, is a transcriptional co-regulator of grain size/weight-modulating genes of rice

(PI: Jitendra K. Thakur)

Though several grain size/weight-associated transcription factors (TFs) and their target genes are known, the molecular landscape regulating this trait is unclear. This study establishes a Mediator subunit, Med15, as a connecting link between rice grain size/weight-associated TFs and target genes. Molecular details of Med15 functioning in plants are unknown. Analysis of *OsMed15a*-

interactome indicated its relevance in rice seed development. Two helices $\alpha 1$ and $\alpha 3$, of KIX domain of OsMed15a and within helix $\alpha 3$, three amino acids, 76LRC78 were found to be important for the interaction of OsMed15a with activation domains of two NAC TFs, OsNAC024 and OsNAC025. Corroborating enhanced expression level of *OsMed15a*, *OsNAC024* and *OsNAC025* during seed development, grain size/weight-associated SNPs were identified in these genes in a panel of 519 rice genotypes. Suppression of *OsMed15a* expression led to downregulation of grain size/weight-associated genes GW2, GW5 and DR11 affecting the grain length, grain weight and yield of transgenic plants. Thus, activation domain of NAC TFs interacts with the KIX domain of *OsMed15a* to regulate grain size/weight-associated genes in rice.

C. Plant responses to abiotic stresses

Dehydration-responsive organellar proteomics: global analysis of proteome and regulation by phosphorylation

(PI: Niranjan Chakraborty)

In this report, we describe a sequential change in the mitochondrial proteome landscape in chickpea, caused by water-deficit stress. The functional analysis revealed that majority of dehydration-responsive proteins were involved in purine and thiamine metabolism, carbon fixation pathways and oxidative phosphorylation. Further, we investigated dehydration-induced alterations of nuclear proteins as well as phosphorylation. The two sets of identification in the nucleus although listed 174 common proteins, only 8 overlapped among the corresponding differential sets. This indicates that one way of regulation might enforce through up- or down-regulated protein expression, while the other by controlling their activity and not by change in protein abundance. The differentially regulated NPs were primarily involved in metabolism, whereas NPPs were predominantly involved in protein modification and RNA editing. This represents the first report on stress-induced nuclear phosphoproteome in a legume species and only second in any food crop after rice. Association mapping of the NPPs revealed predominance of differential phosphorylation of spliceosome and splicing associated proteins. Furthermore, regulatory proteins of key processes viz., protein degradation, regulation of flowering time and circadian clock were observed to undergo dehydration-induced dephosphorylation.

MicroRNA397b-LACCASE2 module regulates root lignification under water- and phosphate deficiency

(PI: Debasis Chattopadhyay)

Water- and phosphate deficiency induce lignin deposition in root. LACCASEs, a family of cell wall-localized multi-copper oxidases, are involved in biosynthesis of lignin. In this report, we have shown LACCASE2 (LAC2) acts as a negative regulator of lignin deposition in root vascular tissues during water deficit. T-DNA insertion mutant of LAC2 displayed a short primary root and high lignin deposition in root vascular tissues. However, restoration of LAC2 expression rescued these phenotypes of the mutant. LAC2 expression was significantly downregulated under water deficit. We have shown that LAC2 expression in root was post-transcriptionally regulated by microRNA397b (miR397b) under normal and water deficit conditions. Downregulation of miR397b

activity increased LAC2 expression, root length, and decreased lignin content in root vasculature. Similarly, phosphate (Pi) deficiency affected expressions of miR397b and LAC2 inversely. Lignin deposition in the root elongation zone in Pi-limited condition was dependent on LAC2 expression. Localized iron (Fe) accumulation and callose deposition in the root elongation zone under Pi-deficiency increased with LAC2-dependent lignification suggesting a direct relationship between these processes. Our study shows a regulatory role of miR397b-LAC2 module in root lignification during water- and phosphate deficiency.

The role of hypoxia induced nitric oxide and alternative oxidase in low oxygen survival in plants

(PI: Jagadis Gupta Kapuganti)

Mitochondrial alternative oxidase (AOX) is an integral part of the mitochondrial electron transport and can prevent reactive oxygen species (ROS) and nitric oxide (NO) production under non-stressed, normoxic conditions. We assessed the roles of AOX by imposing stress under normoxia in comparison to hypoxic conditions using AOX over expressing (AOX OE) and anti-sense (AOX AS) transgenic *Arabidopsis* plants. We found the following: 1) Under normoxic conditions AOX acts as scavenger of NO when treated with flg22. 2) AOX over expressing line (AOX OE) displayed less NO and opposing effect was observed in AOX antisense line (AOX-AS) under normoxia in response to flg22 treatment. 3) Scavenging of NO by AOX can prevent toxic peroxynitrite and tyrosine nitration formation under normoxia. 4) In contrast to normoxia, during hypoxia AOX is a generator of NO. 5) The enhanced levels of NO under hypoxia correlated with expression of non-symbiotic haemoglobin, increased NR activity and ATP production. 6) Hypoxic NO generation mediated by AOX has a discrete role by feeding into the haemoglobin-NO cycle to drive energy efficiency under conditions of low oxygen tension. 7) Using tomato as model system we found that pretreatment of plants with hypoxia leads to increase resistance against pathogen infection under post hypoxia.

Role of glucose-TOR-E2F module-regulated Hikeshi Like Protein 1 (HLP1) in thermotolerance and thermomemory

(PI: Ashverya Laxmi)

Induction of HSPs in response to heat stress (HS) is indispensable for conferring thermotolerance. Glucose, a fundamental signaling and metabolic molecule, provides energy to stressed seedlings to combat stress. The recovery of stressed plants from detrimental HS in response to glucose is largely mediated by HSPs, but the mechanistic basis of this thermotolerance is not well defined. In the present study, we show a prominent role of glucose in providing thermotolerance. Glucose mediated thermotolerance involves HSP induction via TOR-E2Fa signaling module. Apart from HSPs, TOR-E2Fa signaling module also regulates *Arabidopsis* ortholog of human Hikeshi named Hikeshi Like Protein 1 (HLP1). Molecular and physiological studies suggest that HS activated HSF1s also positively regulate HLP1 transcription, suggesting the convergence of glucose and HS signaling pathways. Loss of functional HLP1 causes HS hypersensitivity while HLP1 overexpressors (OEs) display increased thermotolerance. HLP1 binds to the promoters of glucose regulated HS responsive genes and epigenetically modulates the chromatin by increasing

chromatin acetylation marks. In addition, glucose modifies the chromatin landscape at thermomemory related loci by accumulating H3K4me3 epigenetic marks. Glucose primed accumulation of H3K4me3 at thermomemory associated loci is mediated through HLP1. These findings reveal the novel function of glucose regulated HLP1 in providing thermotolerance/thermomemory response.

Arabidopsis SKP1-like protein 13 (ASK13) positively regulates seed germination and seedling growth under abiotic stress

(PI: Manoj Majee)

SKP1 (S-Phase Kinase Associated Protein1) proteins are key members of the SCF (SKP-Cullin-F-box protein) E3 ligase complexes that ubiquitinate the target proteins and play diverse roles in plant biology. However, as compared to other members of the SCF complex, study of SKP1-like proteins is very limited in plants. In this work, we report that Arabidopsis SKP1-like protein13 (*ASK13*) is differentially regulated in different organs, during seed development and germination, and is upregulated in response to abiotic stresses. Y2H library screening and subsequent in vivo interaction through BiFC analysis revealed that *ASK13* not only interacts with F-box proteins but also with other proteins which are not components of SCF complexes. Biochemical analysis revealed that *ASK13* not only exists as a monomer but also as a homo-oligomer or heteromer with other ASK proteins. Functional analysis using *ASK13* overexpression and knockdown lines revealed that *ASK13* positively influences seed germination and seedling growth particularly under abiotic stresses. Taken together, we hypothesize that apart from participation to form SCF complexes, *ASK13* interacts with several other proteins and is implicated in different cellular processes distinct from protein degradation. Overall, *ASK13* positively regulates seed germination and seedling growth particularly under abiotic stress conditions.

Comparative analysis of transcriptional regulatory networks in response to heat stress in contrasting tomato cultivars

(PI: Saloni Mathur)

In order to explore the untapped adaptive mechanisms fundamental to HS towards the genetic improvement of crop species by exploiting the natural variation among cultivars, different cultivated varieties of tomato were screened and identified the most sensitive (CA4) and tolerant (CLN) cultivars. Comparative heat-responsive transcriptomic signatures between them highlight conserved-to-genotype-specific reprogramming. Out of 5707 HS-responsive DEGs 48.72%, 0.22% and 50.95% genes exhibit conserved, opposite and cultivar-biased HS-response, respectively. The up-regulated events are more in tolerant cultivar while down-regulated genes are more in sensitive CA4. The HS-responsive transcriptomic-framework involves modulation of transcription factors, chaperones, kinases, glycosyltransferases, metalloproteases as nodal candidates and identifies biological processes in addition to the canonical schemas in HS adaptation. Several novel HS-responsive and cultivar-specific genes were identified and validated with qRT-PCR. Three genes showing opposite expression in contrasting cultivars were further functionally characterized in-planta by overexpression and silencing using VIGS for various parameters to assess thermotolerance. Two of these acts as positive and one act as negative

regulator of HS, corroborating our data. Transcriptional control by way of variation in promoter sequence and/or an inherent difference in cultivar-specific TF pool regulating this contrasting behaviour is being evaluated.

Characterization of a rice Calcium Dependent Protein Kinase (*OsCPK*) for its role in abiotic stress tolerance in indica rice

(PI: Amarjeet Singh)

Calcium-dependent protein kinase (CDPK) is an important gene family of Ca²⁺ sensors in plants. CDPKs have a dual function and act as Ca²⁺ sensors as well as responders and thereby, integrate the signal from specific Ca²⁺ signatures to downstream phosphorylation of vital target proteins. Out of 31 reported CDPKs in the rice genome, very few have been studied for the in planta functional role. In our preliminary analysis, we found an *OsCPK* to be inducible under salinity, cold and drought stress conditions in indica rice. This expression profile hints towards the possible involvement of *OsCPK* in controlling abiotic stress responses. Therefore, we hypothesize that this *OsCPK* could be the potential candidate to regulate multi-stress signaling pathways in indica rice. To investigate the functional role of *OsCPK* in abiotic stress tolerance in rice, molecular, cellular, genetic, biochemical and physiological approach has been adopted.

The mitogen activated protein kinase cascade module MKK3-MPK6-MYC2 is involved in salt stress in Arabidopsis

(PI: Alok Krishna Sinha)

Arabidopsis MYC2/ZBF1 is a bHLH Leu zipper transcription factor that acts as a point of crosstalk in light, abscisic acid, jasmonic acid and jasmonate-ethylene signaling. Despite being one of the best studied and multifunctional TFs, its role in salt stress is barely studied. Here we have shown the involvement of MYC2 in concert with MKK3-MPK6 module in the regulation of salt stress via regulation of proline biosynthesis, where MYC2 regulates MPK6 in a feedback loop, both in positive as well as negative manner. Salt stress induced activation of MYC2, led us to investigate the downstream action of MYC2 in salt stress. Mining of transcript datasets and promoter analysis identified P5CS1 as a potential target of MYC2. P5CS1 is a proline biosynthetic enzyme. Proline plays a very important and highly beneficial role in plants which are exposed to various stress conditions. Physiological studies including germination and root length assays suggested that the double mutants, *mpk6myc2* and *mkk3myc2* are more tolerant to salt stress. Also, it showed that MYC2 works epistatically to MPK6 and MKK3, to regulate salt stress induced inhibition of root growth. Overall our results suggest possible involvement of the cascade upstream to P5CS1 and thus provide tolerance.

D. Plant-microbe/insect interactions

Molecular insights into host-specific immune dynamics in fungal disease

(PI: Subhra Chakraborty)

Wilt disease development is a complex process associated with many organs, organelles and pathways resulting in structural and functional alterations. Two novel clues regarding wilt disease of potato were gained from this study. First, wall crosslinking and salicylic acid signaling significantly altered during patho-stress. Second, generation of reactive oxygen species and scavenging proteins increased in abundance leading to cell death and necrosis of the host. Next, we present here the first comprehensive ECM proteome analysis of legume challenged with *Fusarium oxysporum*. The results describe the mechanism of host specific resistance, translational innate immune response, pathogen sensing and recognition. Our data suggest that wall remodeling; protein translocation, stabilization and chitin triggered immunity; extracellular ATP signaling are major players in early, middle and later phases of ECM signaling during fungal attack. The study also underpins genotype dependent transcriptional regulation during patho-stress and highlights the importance of module coordination in host specific plant defense. Furthermore, this study indicates cross-talk of Ins/IGF-1 signaling pathway and neuronal stress response facilitating negative regulation of intestinal innate immunity in *Fusarium*-stressed worm. We identified immune pathways previously reported to be relevant, as well as novel potential players of *Fusarium* pathogenesis in plant and animal. Finally, the multi host response seemed to be tightly regulated by transcriptional regulators in eukaryotes.

Understanding the molecular intricacies of Rice-*Rhizoctonia* interactions

(PI: Gopaljee Jha)

Sheath blight disease caused by a necrotrophic fungal pathogen *Rhizoctonia solani* is a serious disease of rice and it is considered as a threat for sustainable cultivation of rice. By analysing the protein-protein interactions amongst previously reported Arabidopsis defense proteins; we identified 16 proteins to be important for topology and dynamics of the network. The RAV1 transcription factor binding motifs were present in each of their promoter region. We observed two independent AtRAV1 overexpressing (OE) transgenic *A. thaliana* lines to have enhanced resistance against *R. solani* as well as *Pseudomonas syringae* pv. *tomato* DC3000 (a biotrophic bacterial pathogen). On the other hand, the *atrav1* mutant and the empty vector (EV) transgenic plants were highly susceptible to both the pathogens. Upregulation of the 16 key defense genes and some of the known defense marker genes in both the OE lines suggested AtRAV1 to be a master regulator of plant defense. Using yeast one hybrid and GUS reporter assays, we further demonstrated that AtRAV1 binds to the promoter region of some of the selected key defense genes and induces their expression.

A role for sugar transporters in plant defense against bacterial pathogens

(PI: Senthil-Kumar Muthappa)

We aimed to identify the sugar transporter that plays a role in plant defense by restricting the sugar availability to pathogens. We identified *AtSWEET11*, *AtSWEET12*, and *AtSWEET15* as the possible candidates involved in plant defense against pathogens. Data obtained from double and triple mutant analysis indicate the importance of *AtSWEET12* in plant defense against a bacterial pathogen. During pathogen infection, plant defense response may involve the regulation of *AtSWEET12* to limit the sugar availability to the pathogen in the apoplast. Moreover, the pathogen multiplication was less in *atsweet11*, and *atsweet11/12* double mutant plants and *in vitro* in the minimal medium supplemented with apoplast obtained from these mutants. This indicates that *AtSWEET11* is involved in the sugar transport into the apoplast and when *AtSWEET11* is absent, the sugar availability is restricted to the pathogen. Further, the data collected from GUS localization of *AtSWEET11* and *AtSWEET12* after pathogen infection indicate that in response to pathogen infection plant defense activates the expression of *AtSWEET12* and suppress the expression of *AtSWEET11*. Based on this we speculate, that during pathogen infection, the plant may regulate the *AtSWEET12* and in turn, *AtSWEET12* may regulate the *AtSWEET11* to limit the sugar availability to the pathogen in the apoplast.

WRKY41 mediated transcriptional regulation of a U-box type E3 ligase SIARM18 leads to targeting of AC4 protein of *Tomato leaf curl New Delhi virus*

(PI: Manoj Prasad)

The previous findings revealed significant upregulation of SIARM18 during virus infection, and ultimately, it was discovered that SIARM18 functions as an E3 ubiquitin ligase. Silencing of the gene in the tolerant cultivar led to symptom severity, signifying the importance of the gene in viral resistance. To investigate the role of cis-elements in the transcriptional regulation of this gene, promoter analysis was performed. It was observed that the two W-box elements in -700 to -1000 bp region were most responsive during viral infiltration. Interestingly, it was further noticed that WRKY41 is upregulated and it physically interacts with the two W-box elements in the SIARM18 promoter, modulating the transcriptional regulation of the SIARM18. To better understand which viral protein can interact with SIARM18, yeast two-hybrid screen was performed using SIARM18 as bait with all ten viral proteins as prey. The two-hybrid assay revealed the interaction between SIARM18 and viral protein AC4, which was further validated by bimolecular fluorescence complementation. In addition, SIARM18 also showed E3 ligase activity as revealed by *in vitro* ubiquitination assay. Altogether, our findings provide evidences on WRKY41 mediated transcriptional regulation of SIARM18 E3 ligase, leading to protein-protein interaction with the viral AC4 gene.

Discovering the players in peanut nodule development

(PI: Senjuti Sinharoy)

Peanut develops highly efficient atypical nodules. Under this project, we have generated RNAseq data of peanut nodule developmental time course. To make this data more valuable for future work, we have simultaneously attempted confocal microscopy (developmental status) and acetylene reduction assay (functional status). The differentially expressed genes (DEG) were identified by comparing two successive nodule developmental time points. The analysis of DEGs have given a dynamic view of nodule development, and we have gotten an indication that the peanut nodule is evolutionary in a distinct state. We have identified several nodule-specific gene families that are absent not only in model legumes but also in close phylogenetically positioned *Aeschynomene* legumes. Presently we are validating the RNAseq data by qRT-PCR and promoter GUS approach. We found that the peanut plants develop fully infected highly nitrogen-fixing, and they are drought tolerant. Keeping these nodule developmental features in mind, we are going to knock down several genes and study their role. In summary, our results on the atypical nodule developmental mechanism will help elucidate the evolution of nitrogen-fixing root nodule symbiosis. Our studies in the longer term will show the direction to a synthetic biologist to transfer this valuable trait to non-nitrogen fixing crops.

Induction and suppression of rice innate immune responses during bacterial infection of rice

(PI: Ramesh V. Sonti)

Plant cell wall degrading enzymes (CWDE) secreted by the rice pathogen *Xanthomonas oryzae* pv. *oryzae* (Xoo) are important virulence factors of the pathogen. Conversely, the action of these enzymes in degrading plant cell walls serves as a mark of infection and results in the elicitation of potent rice immune responses. We had also shown that Xoo suppresses CWDE induced rice innate immune responses using four different proteins, namely *Xanthomonas* outer protein Q (XopQ), XopN, XopX and XopZ that it secretes into rice using the bacterial type 3 secretion system. How do these proteins suppress rice immunity? XopQ, XopX, and XopZ proteins have motifs for binding to 14-3-3 proteins, which are key adaptors in eukaryotic signal transduction cascades. We find that mutation of the 14-3-3 binding motifs of XopQ, XopX, and XopZ affects the ability of these proteins to suppress rice immune responses. Rice has eight 14-3-3 proteins. XopQ binds to two different rice 14-3-3 proteins, XopX to two other 14-3-3 proteins and XopZ to yet another rice 14-3-3 protein. Mutations in the 14-3-3 binding motifs that affect the ability of Xops to suppress rice innate immunity also affect the ability of the proteins to interact with cognate rice 14-3-3 proteins.

Cyclic nucleotide gated channel 19 (CNGC19) is an important Ca²⁺ channel regulating Arabidopsis defense against Spodoptera herbivory

(PI: Jyothilakshmi Vadassery)

Perception of generalist insect, *Spodoptera litura*, by Arabidopsis plants causes cytosolic Ca²⁺ elevation; however, the identity of ion channels generating Ca²⁺ signal is unknown. Here we report on a plasma membrane localized, cyclic nucleotide gated, Ca²⁺ channel (CNGC19) involved in herbivory-induced defense. CNGC19 is activated rapidly both in local and systemic leaves upon

herbivory. *S. litura* larvae that feed on loss-of-function CNGC19 plants gain more weight compared to the control, indicating a breakdown of plant defense. Hyperpolarization of CNGC19-expressing *Xenopus* oocytes in the presence of both cAMP and Ca²⁺ results in influx of Ca²⁺. CNGC19 gene expression is regulated by AtPep receptors, PEPR. Loss-of-function of CNGC19 causes an altered *S. litura*-oral secretion induced Ca²⁺ elevation and a reduced AtPep-induced Ca²⁺ influx. CNGC19 gene expression is JA-Ile and COI1 dependent, and also involved in JA-Ile-induced Ca²⁺ elevation. The *cngc19* mutants show a decrease in herbivory-induced JA-Ile biosynthesis, and expression of JA responsive genes. Moreover, *cngc19* lines show reduced aliphatic glucosinolate and increased methionine levels via effect on chain elongation pathway of Met-derived glucosinolate. CNGC19 also interacts with the herbivory-induced CAM2 in planta. Together, our work reveals a key role of Ca²⁺ channel, CNGC19 in recognition of self-damage and activation of induced defenses upon herbivory.

Genomics assisted identification of genes responsible for fungal disease resistance in crop plants

(PI: Praveen Verma)

Over three decades of genetic research had failed to identify the candidate genes working against ascochyta blight (AB) fungal disease in chickpea. However, using next-generation sequencing based robust multiple QTL-seq technique and classical mapping in a bi-parental population, we have identified the *CaAHL18* as a promising candidate gene under a major QTL (*qABR4.1*) that provides resistance in chickpea against AB. The *CaAHL18* gene was found to be induced in AB resistant variety as compared to AB susceptible in multiple biological replicates after *Ascochyta rabiei* conidial suspension inoculation. The higher expression in AB resistant variety is associated with polymorphism in the regulatory region of *CaAHL18* gene. The CaNIP8 marker developed from this polymorphic region was found to be highly associated in other diverse AB resistant/tolerant chickpea accessions used for breeding programs. The CaAHL18 protein localizes to nucleus and forms higher order complex with CaAHL17, another member of same family under the “robust *qABR4.1*”. These proteins were also found to be targeted by an important virulence associated host nuclear translocated effector of *A. rabiei*. Thus, our study has identified a candidate gene and its associated marker CaNIP8 that should be useful for the improvement of chickpea varieties against AB disease.

E. Computational biology

PtRFdb: A database for Plant transfer RNA-derived fragments

(PI: Shailesh Kumar)

Transfer RNA-derived fragments (tRFs) represent a novel class of small RNAs generated through endonucleolytic cleavage of both mature and precursor tRNAs. These 14-28 nucleotide length tRNA-derived fragments that have been extensively studied in animal kingdom, are to be explored in plants. In this report, we introduce a database of plant tRFs named PtRFdb (www.nipgr.res.in/PtRFdb), for the scientific community. We analyzed a total of 1,344 small RNA sequencing datasets of 10 different plant species and identified a total of 5,607 unique tRFs (758

tRF-1, 2,269 tRF-3 and 2,580 tRF-5), represented by 487,765 entries. In PtRFdb, detailed and comprehensive information is available for each tRF entry. Apart from the core information consisting of the tRF type, anticodon, source organism, tissue, sequence and the genomic location; additional information like PMID (PubMed identifier), GSM number (Sample accession number), sequence length and frequency relevant to the tRFs may be of high utility to the user. Two different types of search modules (Basic Search and Advanced Search), sequence similarity search (by BLAST), and Browse option with data download facility for each search is provided in this database. We believe that PtRFdb is a unique database of its kind and it will be beneficial in the validation and further characterization of plant tRFs.

Identification of KIX and TAD domains and analysis of their recognition interface

(PI: Gitanjali Yadav)

We describe development of novel methods for prediction of KIX domains and their cognate partner TADs, followed by ROC based tests of our machine learning algorithms, in-depth analysis of -omics datasets, and functional assessment of KIX and TAD interactions in *Arabidopsis thaliana*, to understand recognition specificity. For both domains, predictive computational methods that were developed, namely KIXBASE and PREDICTAD, can be applied to any organism, opening up new horizons for future studies. Computational predictions were validated by experimental characterization of selected TAD domains and their interactions with three distinct KIX domains in the model plant *A. thaliana*. The positive and negative interactions were analysed via structural modelling of the interaction interface between cognate and non-cognate KIX and TAD domains. Insights gained during various stages of this work have been developed into online servers and databases freely available to the scientific community, providing a platform for exploration of these proteins opening up new avenues for future research towards investigation of their importance in physiology and systems biology.

F. Nutritional traits in crops

Tissue specific manipulation of glucosinolate accumulation in Indian oilseed mustard for higher nutritional value and enhanced plant fitness

(PI: Naveen Chandra Bisht)

Glucosinolates and their breakdown products has been the subject of extensive studies due to their diverse roles in plant metabolism, animal nutrition, and disease. Work in my lab is mainly focused towards two major goals viz., (1) enriching the desirable glucosinolates while reducing the anti-nutritional glucosinolates in Indian oilseed mustard; and (2) reducing glucosinolates accumulation in seeds without compromising the plant's ability to launch a defense response in case of pest or pathogen attacks. Through targeted silencing of a key transcriptional regulator (MYB28), we have successfully developed low glucosinolate mustard transgenic lines, having seed-glucosinolate content less than the internationally acceptable limits (<30 μ moles/g dry seed weight). Currently, functional characterization of proteins involved in glucosinolate transport (GTR1, GTR2), profile (MYB34, MYB51, MYB122) and side-chain elongation (MAM) processes is under progress in Brassica crops. The tissue specific manipulation of glucosinolate content and profiles in Brassica

crops has huge implication on shaping the constitutive plant fitness and resistance against pests and pathogens. The lab is utilizing genome-editing approaches for transgene-free manipulation of glucosinolate trait, which will broaden the scope and acceptability of this crop in international market both for its food and feed values.

Improvement of nutritional quality, postharvest fruit stability and pathogen resistance in edible crops

(PI: Asis Datta)

During ripening of many fruits, monoterpenes take part in the biosynthesis of ripening-associated flavour volatiles. Moreover, expression analysis during ripening revealed that geraniol (an acyclic monoterpene) responsive genes are associated with the fruit senescence. Therefore, we aimed to target two geraniol responsive genes of tomato, apoptosis inhibitory protein 5 (API5) and ABA 8' hydroxylase (ABA8'H) to develop tomato transgenic lines by suppression/overexpression of these genes with an aim to improve fruit quality traits including fruit shelf life. We have shown that overexpression of a fungal gene C-5 sterol desaturase (FvC5SD) in drought susceptible variety of rice lead to improved tolerance to abiotic and biotic stresses and increased iron content (3-4 folds) both in seeds and in leaves (beneficial as fodder). Tolerance to abiotic and biotic stress could be attributed to the increased cuticular thickness of the overexpressed plants. To determine the role of amino sugar N-acetylglucosamine (GlcNAc) in the virulence of phytopathogen *Botrytis cinerea*, we aimed to plan cloning and disruption of GlcNAc catabolic pathway genes through homologous recombination to generate GlcNAc pathway mutants. Furthermore, we are also continuing with several transgenic crops developed in our laboratory for improved nutritional quality, productivity and post-harvest stability.

Understanding regulation of plant secondary metabolism and metabolic engineering of crop plants

(PI: Ashutosh Pandey)

We have identified candidate flavonoid regulators from banana genome hub. The expression analysis suggested that these genes expressed at varying levels in different tissues of banana. To validate the function of the candidate regulators (in planta), we have cloned these TFs with 2xCaMV35S promoter (effector construct) and the promoter region of various genes involved in the flavonoid biosynthesis pathway are fused to the uidA-ORF (reporter construct). To score the transactivation potential of the identified transcription factor, we are multiplying and maintaining At7 cell lines in our lab. Further, we have cloned these regulators and developed the constructs for complementation analysis using hextruple mutant of *Arabidopsis*. To further elucidate the phenylpropanoid pathway in banana, we have identified eight homologs of phenylalanine ammonia lyase (PAL) genes in banana. The expression analysis suggested all the homologs of PAL are differentially expressed in various tissues. The insilico proximal promoter analysis suggested various cis regulatory elements in PAL genes promoter which prompted us to do expression analysis in response to various environmental stresses. Interestingly, we found none of the genes were responsive to methyl jasmonate and salicylic acid elicitation. However, mechanical wounding evokes the expression of different homologs of PAL genes significantly in leaves of banana.

Publications and Patents

Publications

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Patent(s)

- ❖ Jha G, Yadav SK and Swain DM (2017) Novel protein against fungal pathogens (PCT Application No.PCT/IB2017/054354)
- ❖ Prasad M and Sharma M (2017) Method of producing virus tolerant and healthy crops against Tomato Leaf Curl New Delhi Virus (Indian Patent Application No. 201711039523)
- ❖ Chakraborty S, Chakraborty N, Datta A, Asraf N, Basu S, Nag P and Singh M (2018) Polynucleotides derived from chickpea and uses thereof for improving immunity to fungal pathogens (CP No. 2,772,654).

Awards and Honours

Awards and Honours

Prof. Asis Datta

- ❖ Glory of India Award (Gold Medalist) by Best Citizen Publishing House, New Delhi, 2017
- ❖ Best Citizens of India by Best Citizen Publishing House, New Delhi, 2017.
- ❖ Bharat Jyoti Puraskar by Best Citizen Publishing House, New Delhi, 2017.

Dr. Debasis Chattopadhyay

- ❖ NASI-Reliance Industries Platinum Jubilee Award for Application Oriented Innovations in Biological Sciences.
- ❖ Elected Fellow of Indian National Science Academy.

Dr. Gitanjali Yadav

- ❖ INSA Bilateral Exchange Program Award by Indian National Science Academy, January 2018.
- ❖ MESA Investigator Travel Grant, Jointly Awarded by National Academy of Science and Engg USA and Akademi Sains Malaysia, February 2018.
- ❖ Hamied Fellowship Award by the University of Cambridge, UK, March 2018.

Dr. Ashverya Laxmi

- ❖ Best Poster award under Swatch Bharat theme at India International Science Festival, Govt. of India, Chennai, November 2017.

Dr. Naveen Chandra Bisht

- ❖ NASI Scopus Young Scientist Award –Agriculture, 2017.
- ❖ Best Poster Award at IISF-2017 under the theme for 'Swasth Bharat', 2017.

Dr. Jagadis Gupta Kapuganti

- ❖ DST-DAAD Fellow Elected as scientific committee member of International Plant Niric Oxide Club, 2018.

Dr. Gopaljee Jha

- ❖ Best poster award on theme 'Make In India' in India International Science Festival-2017 (IISF-2017), held at Chennai, October 13-16, 2017.

Dr. Senthil-Kumar Muthappa

- ❖ Topic editor for the Frontiers in Plant Science, June 2017.

Dr. Jitender Giri

- ❖ Best Poster award under 'Swatch Bharat' theme at India International Science Festival - 2017, Govt. of India, Chennai, October 13-16, 2017.

Dr. Pinky Agarwal

- ❖ EMBO Research Leadership Course selection/ DBT India Alliance, February 9, 2018.
- ❖ Travel Grant, American Society of Plant Biologists (ASPB), January 5, 2018.

Dr. Vinod Kumar Sharma

- ❖ Received "Award for Highest Usage of Wiley e-Resources by NIPGR Library in 2017" within DeLCON: DBT e-Library Consortium at Wiley Library Awards event, New Delhi, December 20, 2017.
- ❖ Received "Certificate of Content Contribution & Memento" by NDLI-National Digital Library of India during NDLI partners meet & National workshop on copyrights in digital libraries, IIT Kharagpur, February 8–10, 2018.

Dr. Amarjeet Singh

- ❖ Young Scientist Platinum Jubilee Award, 2017 from the National Academy of Sciences, India (NASI), August 2017.

Dr. Ashutosh Pandey

- ❖ Received INSA Medal for Young Scientist, 2017 at the anniversary general meeting, December 29, 2017.
- ❖ Selected as Member for Indian National Young Academy of Sciences from INYAS, New Delhi, January 2018.

Activities of the Institute

International Visits

Dr. Subhra Chakraborty

- ❖ Visited Kuala Lumpur, Malaysia to chair session and delivered an invited lecture in the International Proteomics Conference 2017 and the 4th AOAPPO Conference, August 14-17, 2017.
- ❖ Visited Dublin, Ireland to chair session and participate in 16th Human Proteome Organization Annual World Congress, September 16-21, 2017.
- ❖ Visited Dhaka, Bangladesh to deliver an invited lecture in 18th International Congress of International Society for Ethnopharmacology and the 5th International Congress of the Society for Ethnopharmacology, India (ISE-SFEC 2018), January 11-15, 2018.
- ❖ Visited Colombo, Sri Lanka to chair session and delivered an invited plenary lecture in South Asian Biotechnology Conference (SABC 2018), March 28 to April 4, 2018.

Dr. Manoj Prasad

- ❖ Visit to collaborating laboratories at NIAB, Sainsbury Laboratory and University of Cambridge, UK to discuss the progress of DBT Funded Indo-UK project entitled 'Cambridge-India Network for Translational Research in Nitrogen (CINTRIN)', March 13 - 18, 2018.

Dr. Jitendra K. Thakur

- ❖ Attended IIIrd International Symposium on Profiling, Caparica, Lisbon, Portugal, September 4 – 7, 2017.
- ❖ Delivered a lecture in the Centre for Functional Ecology, Department of Life Sciences, University of Coimbra, Coimbra, Portugal, September 12, 2017.

Dr. Gitanjali Yadav

- ❖ Attended India-EMBO Young Scientists Networking (YSN) Meeting, Barcelona, Spain, April 24 – 25, 2017.
- ❖ Attended Commonwealth Science Conference, Singapore, June 12 – 16, 2017.
- ❖ Availied DBT-Cambridge Lectureship, University of Cambridge, December 6 – 27, 2017.
- ❖ Participated as Mentor at Women in Ecology Workshop, London, January 26 – 31, 2018.
- ❖ Attended MESA Regional Conference to promote Safe and Secure Science (funded by National Academy of Sciences and Engineering, USA), Kuala Lumpur, Malaysia, February 6 – 9, 2018.
- ❖ Availied DBT Cambridge Lectureship, University of Cambridge, March 16 – 30, 2018.

Dr. Ashverya Laxmi

- ❖ Delivered invited lecture in India-EMBO Young Investigator Meet, Barcelona, Spain, 2017.

Dr. Naveen Chandra Bisht

- ❖ Delivered a talk at the 4th International Glucosinolate Conference-2017 organized by Leibniz Institute of Vegetable and Ornamental Crops, Großbeeren, at Seminaris Campus Hotel Berlin, Germany during September 17 – 20, 2017.

Dr. Jagadis Gupta Kapuganti

- ❖ UKIERI project collaboration, Aberystwyth University, United Kingdom, October 3 - 12, 2017.

Dr. Saloni Mathur

- ❖ American Society for Plant Biologist (ASPB), Honolulu, Hawaii, USA, June 24-28, 2017.

Dr. Jyothilakshmi Vadassery

- ❖ Max Planck Institute for Chemical Ecology, Jena, Germany for collaborative project, June- July 2017.
- ❖ Attended International Calcium Signaling Meeting at John Innes Center, UK, September 2017.

Dr. Shailesh Kumar

- ❖ Visiting Scientist, Guangxi Medical University and Guilin Medical University, China, October-November 2017.
- ❖ Selected for SAKURA Exchange Program in Science for Indian Young officers, JAPAN by DBT, India at Tokyo, Japan, January 21-27, 2018.

Invited Lectures

Dr. Ramesh V. Sonti

- ❖ Delivered lecture in the 3rd National Workshop on “Tilling and Genome Editing in Crop Plants” at University of Hyderabad, January 23-24, 2018.
- ❖ Delivered lecture during Satellite meeting on Plant Cell Biology entitled “Induction and suppression of host innate immunity in the rice-xanthomonas interaction”, at NIPGR, New Delhi, February 2 – 3, 2018.
- ❖ Delivered a lead lecture in the INSA-JIGYASA-2018 at CIMAP, Lucknow, March 8-10, 2018.
- ❖ Delivered an expert talk in the GCE-India meeting (Grand Challenges Explorations India) at India Habitat Centre, March 14, 2018.
- ❖ Delivered a lecture in the National Conference on “Impact of Climate Change on Indian Agriculture and Plant Productivity” at SLS, JNU, March 23, 2018.

Prof. Asis Datta

- ❖ Chief Guest and delivered convocation address at Pt Ravishankar Shukla University, Raipur, May 9, 2017.
- ❖ Keynote Speaker in the International Conference on Agriculture and Crop Science at Hyatt Regency Gurgaon, New Delhi, October 9, 2017.
- ❖ Guest of honor and Keynote Speaker at International Conference on Recent Advances in Bio-Science and Bio-Engineering (ICRA2B -18) in Parul University, Parul Institute of Applied Science, Vadodara, Gujarat, March 8, 2018.

Dr. Niranjana Chakraborty

- ❖ Invited as Special Guest at “Gurukul-The School” Ghaziabad, August 14, 2017.
- ❖ Delivered a lecture on “The proteomic landscape of plant cell wall and defense response: turning knowledge into application” in the Guest Lecture Series at South Asian University, October 13, 2017.
- ❖ Delivered a lecture on “Plant extracellular matrix proteome dynamics and defense response: turning knowledge into application” in MS-INDUSCON at International Centre, Dona Paula, Goa, November 6 - 8, 2017.
- ❖ Delivered lecture in Tripura University, November 23 - 26, 2017.
- ❖ Delivered lecture on “Proteomic profiling of plasma membrane in chickpea reveals a novel negative regulator of dehydration tolerance” in the Proteomics Society (PSI) and “International Conference on Proteomics in Health and Disease” at the Institute of Life Science, Bhubaneswar, November 30, 2017 to December 2, 2017.

- ❖ Delivered lecture on “Quantitative plasma membrane proteome profiling of chickpea to water-deficit revealed role of CaDREPP1 in stress adaptation” in the 7th Asia Oceania Mass Spectrometry Conference (AOAMSC) at AOAMSC, Singapore, December 11 - 15, 2017.
- ❖ Delivered lecture on “Nuclear proteome dynamics and defense response: proteomics-assisted crop improvement” in the 3rd Plant Proteomics Workshop at Department of Botany, University of Delhi, December 19 - 23, 2017.
- ❖ Delivered lecture on “Mitochondrial defence system in catabolism of reactive oxygen species and signaling” in the 6th International Conference on Molecular Signalling (ICMS-2018) at University of Hyderabad, Hyderabad, February 8 - 10, 2018.
- ❖ Delivered lecture on “Quantitative analysis of the plasma membrane proteome: a strategy for turning knowledge into application” in the International Symposium and Targeted Proteomics Workshop at IIT Bombay, Mumbai, February 25 - 27, 2018.
- ❖ Delivered lecture on “GM crops: the good, the bad and the necessity” in the Faculty Development Centre (FDC), Tripura University, March 16 - 17, 2018.
- ❖ Delivered lecture on “Quantitative analysis of the plasma membrane proteome: new insights into the molecular basis of stress adaptation” in the Impact on Climate Change on Indian Agriculture and Plant Productivity at School of Life Sciences, Jawaharlal Nehru University, New Delhi, March 23-24, 2018.

Dr. Subhra Chakraborty

- ❖ Delivered invited lecture in the NASI Workshop on “Scientific/Technical Writing” on “Intricacies of Scientific Writing in Agricultural Research”, CCS, HAU, Hisar, April 18 - 19, 2017.
- ❖ Delivered invited lecture in the NASI Science and Technology Sensitization Programme on “Art of scientific writing: passion, expectations, challenges and success”, Kumayun University, Nainital, June 9 - 11, 2017.
- ❖ Delivered invited lecture in the Indo-Iran Workshop to Develop Cooperation in Biotechnology, ICGEB, New Delhi, August 3 - 4, 2017.
- ❖ Delivered invited lecture in the Second Lecture Workshop on Women in Science: A Career in Science, Deen Dayal Upadhyaya College, University of Delhi, August 10 - 11, 2017.
- ❖ Delivered invited lecture in the 3rd International Conference on Translational Research (ICTR), Amity University, Kolkata, September 25 - 27, 2017.
- ❖ Delivered invited lecture in the National Training Workshop on Recent Advances in Proteomics and Chemo-Informatics in Agriculture, Vateniery and Biomedical Applications, GB Pant University of Agriculture, Pantnagar, October 10 - 11, 2017.
- ❖ Delivered invited lecture in the National Symposium on Advances in Biology: Exploitation of Phyto-resources, Dr. A.P.J. Abdul Kalam Govt. College, Kolkata, November 2 - 3, 2017.
- ❖ Delivered invited lecture in the 9th Annual Meeting of Proteomics Society, India (PSI) and International Conference on Proteomics in Health and Disease, Institute of Life Sciences, Bhubaneswar, November 29 - December 2, 2017.

- ❖ Delivered invited lecture in the 3rd Plant Proteomics Workshop, Department of Botany, University of Delhi, Delhi, December 19 - 23, 2017.
- ❖ Delivered invited lecture in the 18th All India Congress of Cytology and Genetics and the International Symposium on Translating Genes and Genomes, CSIR-IICB, Kolkata, January 29 - 31, 2018.
- ❖ Delivered invited lecture in the International Seminar entitled 'Frontier's in Biological Sciences', St Xavier College, Kolkata, January 30, 2018.
- ❖ Delivered invited lecture in the 6th International Conference on Molecular Signalling (ICMS 2018), University of Hyderabad, Hyderabad, February 8 - 10, 2018.
- ❖ Delivered invited lecture in the Targeted Proteomics Workshop and International Symposium (TPWIS-2018), IIT-B, Mumbai, February 24 - 27, 2018.
- ❖ Delivered invited lecture at IASST, Guwahati, IASST, Guwahati, March 18 - 20, 2018.
- ❖ Delivered invited lecture in the National Conference on “Impact of Climate Change on Indian Agriculture and Plant Productivity”, Jawaharlal Nehru University, New Delhi, March 23-24, 2018.

Dr. Debasis Chattopadhyay

- ❖ Methods and Applications of plant genomics, Defense Institute of Physiology and Allied Sciences, Delhi, November 29, 2017.
- ❖ Post-transcriptional regulation of lignification of root during stress, 87th Annual General Meeting of National Academy of Sciences, India at Pune University, December 10, 2017.

Dr. Alok Krishna Sinha

- ❖ Delivered talk on a topic entitled “Submergence tolerance in rice – A mitogen activated protein kinase based regulation of SUB1A1” at National conference on Biotechnology and Environment, Jamia Millia Islamia, April 11, 2017.
- ❖ Delivered lecture on a topic entitled “Mitogen Activated Protein Kinase: Role in Seedling Development in Arabidopsis and Submergence Tolerance in Rice”, NCL Pune, April 19, 2017.
- ❖ Delivered lecture on a topic entitled "Submergence tolerance in rice – A New Twist by MAP kinase Regulation” at Department of Genetics, University of Delhi South Campus, October 13, 2017.
- ❖ Delivered lecture on a topic entitled “Submergence tolerance in rice: Regulation of SUB1A1 by a Mitogen Activated Protein Kinase” at National Conference on Plant Physiology, Raipur, November 23 - 27, 2017.
- ❖ Delivered lecture on a topic entitled “Signal transduction plants and protein-protein interaction” at the Centre of Advanced Study in Botany, under Science Academy Sponsored workshop, December 9, 2017.

- ❖ Delivered lecture on a topic entitled “Reweaving the tapestry of submergence tolerance by a Mitogen Activated Protein Kinase” at the Centre of Advanced Study in Botany, under Science Academy Sponsored workshop, December 9, 2017.
- ❖ Delivered lecture on a topic entitled “Role of Mitogen Activated Protein Kinase cascade in light and inundation signaling in plants” at 86th Society of Biological Chemists (SBC), December 16 - 20, 2017.
- ❖ Delivered lecture on a topic entitled Mitogen Activated Protein Kinase modules working in light and inundation signaling in plants at FBMI meeting at Department of Biochemistry, Lucknow University, December 21, 2017.
- ❖ Delivered lecture on a topic entitled “Role of Mitogen Activated Protein Kinase cascade in light and submergence signaling”, CSIR-IHBT, Palampur, January 3, 2018.
- ❖ Delivered lecture on a topic entitled “The role of mitogen activated protein kinase in regulating submergence tolerance in rice” at National Conference on Challenges and Strategies to Improve Crop Productivity in Changing Environment: An Integrated Approach at Zakir Hussain College, DU, New Delhi, January 12, 2018.
- ❖ Delivered lecture on a topic entitled “Role of Mitogen Activated Protein Kinase cascade in light and submergence signaling” at Satellite Symposium of Plant Cell Biology at NIPGR, New Delhi, February 2 - 3, 2018.

Dr. Sabhyata Bhatia

- ❖ Invited lecture “Development of genomic and transcriptomic resources for molecular mapping and gene discovery in chickpea”, Rajasthan Science Congress, Amity University, Jaipur, Rajasthan, October 13 – 15, 2017.
- ❖ Invited lecture “Development of genomic and transcriptomic resources for gene discovery and genetic enhancement in chickpea” CAFT training on “Next generation sequencing and its applications in crop science”, ICAR-NRCPB, IARI, December 16, 2017.

Dr. Praveen Verma

- ❖ National symposium on “Molecular Intricacies of Plant Associated Microorganisms (MIPAM)-2017”, at Amarkantak, Chattisgarh, on “Secreted effectors of *Ascochyta rabiei*: Molecular analysis of a novel effector involved in pathogenesis and possible host targets”, October 27 – 28 2017.
- ❖ National symposium on “Innovative strategies for the management of plant disease under climate change scenario”, at Division of Plant Pathology, IARI, New Delhi on Genomics-assisted Genetics: mQTL-seq mapping implicates the role of a transcription regulator gene in *Ascochyta* blight resistance of chickpea”, December 19, 2017.
- ❖ Invited lecture in training programme on “Whole genome sequencing of plant pathogens: Methods and Applications”, on “Whole genome sequence assisted discovery of effectors in fungal plant pathogens”, January 10, 2018.

- ❖ National seminar on “Advances in Plant Sciences” at Savitribai Phule Pune University, Pune, on “Genomics-assisted genetics: Quest for fungal effector and their possible target(s)”, January 12 - 13, 2018.
- ❖ International symposium on “86th Conference of Society of Biological Chemists (SBC-2017)”, at Jawaharlal Nehru University, New Delhi on “Genomics-assisted genetics of chickpea-*Ascochyta* interactions”, January 12 - 13, 2018.
- ❖ National Symposium cum Bioinformatics Workshop on "Trends in Genomics: Congruence with Contemporary Biotechnological Tools", on “Genomics-assisted genetics: Quest for fungal effector and their possible target(s)”, March 20-21, 2018.
- ❖ National Conference on “Impact of Climate Change on Indian Agriculture and Plant Productivity”, on “Genomics-assisted genetics: Quest for fungal effector and their possible target(s)”, March 23 - 24, 2018.

Dr. Manoj Prasad

- ❖ 'Establishment of epigenetic mechanisms to control geminivirus infection in tomato' and 'Foxtail millet: A climate change resilient model C4 crop with rich genetic and genomic resources for genetic improvement of cereals and bioenergy grasses' at workshop on 'Biodiversity of Kashmir Himalaya', University of Kashmir, Jammu and Kashmir, July 25-28, 2017.
- ❖ 'Foxtail millet: A climate change resilient model C4 crop with rich genetic and genomic resources for genetic improvement of cereals and bioenergy grasses' at National consultation on 'Bioresources for sustainable developments: Biodiversity-Agriculture-Health', August 1, 2017.
- ❖ 'Foxtail millet: A climate change resilient model C4 crop with rich genetic and genomic resources for genetic improvement of cereals and bioenergy grasses' at 'Recent Trends in Genetic Engineering and Biotechnology', SRM University, Chennai, Tamil Nadu, September 25 - 26, 2017.
- ❖ 'Role of epigenetics and tomato 26S proteasome subunit RPT4a in providing tolerance against plant viruses' at UGS-SAP sponsored National Conference on 'Plant-microbe interactions in plant health, disease and biocontrol', The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, October 4, 2017.
- ❖ 'Establishment of epigenetic mechanisms to control geminivirus infection in tomato' and 'Foxtail millet: A climate change resilient model C4 crop with rich genetic and genomic resources for genetic improvement of cereals and bioenergy grasses' at ICAR sponsored course on 'Modern breeding strategies for higher productivity, quality and bio-active health compounds in temperate and exotic high value vegetables', ICAR-IARI Regional Station, Katrain, Himachal Pradesh, November 4 - 13, 2017.
- ❖ 'Role of epigenetics and tomato 26S proteasome subunit RPT4a in providing tolerance against plant viruses' at Department of Life Sciences and Bioinformatics, Assam University, Silchar, Assam, November 6, 2017.

- ❖ 'Role of epigenetics and tomato 26S proteasome subunit RPT4a in providing tolerance against plant viruses' at 18th All India Congress of Cytogenetics and Genetics and International Symposium on 'Translating genes and Genomes' at CSIR-Indian Institute of Chemical Biology, Jadavpur, Kolkata, January 29 - 30, 2018.
- ❖ 'Role of epigenetics and tomato 26S proteasome subunit RPT4a in providing tolerance against plant viruses' at 3rd CAS National Conference on 'Current Trends in Biological Sciences' at Sardar Patel University, Gujarat, February 9, 2018.
- ❖ 'Role of epigenetics and tomato 26S proteasome subunit RPT4a in providing tolerance against plant viruses' at SAP Workshop at University of Delhi, South Campus, New Delhi, February 27, 2018.
- ❖ 'Role of epigenetics and tomato 26S proteasome subunit RPT4a in providing tolerance against plant viruses' at Bioscience Extension Lecture Series, Jamia Millia Islamia, New Delhi, March 23, 2018.
- ❖ 'Global food security and climate change: some technological interventions' at Climate Change Conference, Jawaharlal Nehru University, New Delhi, March 24, 2018.

Dr. Jitendra K. Thakur

- ❖ Understanding the importance of KIX domain proteins, ICRISAT, Hyderabad, May 5, 2017.
- ❖ Importance of KIX domain in different systems Workshop on 'Biodiversity of Kashmir Himalaya', Kargil Campus of University of Kashmir, Jammu and Kashmir, July 25-28, 2017.
- ❖ Importance of KIX domain proteins in different systems ISPROF 2017, Caprica, Portugal September 4-7, 2017.
- ❖ Understanding the importance of KIX domain proteins in different systems, University of Coimbra, Portugal University of Coimbra, Portugal, September 12, 2017.
- ❖ Making biotechnological sense of basic cellular processes, APJ Abdul Kalam Azad College, Kolkata, November 2-3, 2017.
- ❖ Making biotechnological sense of fundamental process National Symposium cum Bioinformatics Workshop on Trends in Genomics: Congruence with Contemporary Biotechnological Tools Interdisciplinary Biotechnology Unit, Aligarh Muslim University, March 20-21, 2018.
- ❖ Making biotechnological sense of a basic cellular process National seminar on 'New Horizons of Integrative Biology', Department of Botany, University of Calcutta, March 29-30, 2018.

Dr. Gitanjali Yadav

- ❖ 'Science as a Way of Thinking', Govt Senior Secondary School, Gurgaon, June 23, 2017.
- ❖ 'Indian Women in Science', Govt College Kosli, Haryana, July 14, 2017.
- ❖ Mentor Lecture at the 7th RLS Conclave, Imphal, August 29, 2017.
- ❖ 'The Secret Life of Plants' at Sai Vidya Niketan, Imphal, Manipur, August 30, 2017.

- ❖ 'Darwinism and Evolution' at Sangai Higher Secondary School, Imphal, Manipur, August 31, 2017.
- ❖ 'Perturbation Analysis of Complex Networks', IIIT New Delhi, October 28, 2017.
- ❖ 'Phytochemical Dynamics in Invasive Species Biology', Bhubaneswar, November 24, 2017.
- ❖ 'New Bio-informatics Research Initiatives at NIPGR', BTISNET Annual Coordinators Meeting, Tirunelveli, Tamil Nadu, February 3–5, 2018.
- ❖ 'Food Security Research in India', Kuala Lumpur, Malaysia, February 8, 2018.
- ❖ 'Phytochemistry and Plant Communication', SVC, New Delhi, February 13, 2018.
- ❖ 'Work Package on Algal Carbon Concentrating Mechanisms' TIGR2ESS Workshop, New Delhi, February 22, 2018.
- ❖ 'Bioinformatics in Agriculture', IARI, New Delhi, March 13, 2018.
- ❖ 'Carbon Chauvinism', Food Security Venture Creation Weekend, Cambridge, March 23, 2018.
- ❖ 'Using R for Genomics', Bioinformatics Training Workshop, Cambridge, March 25, 2018.
- ❖ 'Using R for Data Analysis and Extraction', Bioinformatics Training Workshop, March 26, 2018.
- ❖ 'Statistics With R', Bioinformatics Training Workshop, Cambridge, March 27, 2018.
- ❖ 'Graphics Using R', Bioinformatics Training Workshop, Cambridge, March 28, 2018.

Dr. Ashvarya Laxmi

- ❖ Delivered invited talk in ICPDB conference and chaired a session, ILS, Bhubaneswar, Orissa, India, 2017.
- ❖ Delivered invited lecture in India-EMBO Young Investigator meet, Barcelona, Spain, 2017.

Dr. Naveen Chandra Bisht

- ❖ Invited talk on “Genetic improvement of Indian oilseed mustard for higher nutritional value and uncompromised defense response” during Indo-Iran Workshop to Develop Cooperation in Biotechnology at ICGEB, New Delhi, August 3–4, 2017.
- ❖ Invited talk entitled 'Transforming Brassica juncea into a functional food: Redesigning the mustard oil bomb' in a ICAR-Winter School on 'Molecular breeding for higher productivity, quality, food colorants, nutraceutical and bioactive health compounds in vegetable crops' in the Division of Vegetable Science, ICAR-Indian Agricultural Research Institute, Pusa Campus, New Delhi, February 13 to March 5, 2018.
- ❖ Invited speaker at National Seminar on Emerging Trends in Plant and Environmental Sciences held at Department of Botanical and Environmental Sciences, GNDU, Amritsar, the talk entitled “Redesigning the mustard oil bomb in Brassica juncea”, March 29 - 30, 2018.

Dr. Jagadis Gupta Kapuganti

- ❖ Invited talk, International conference in Biotechnology and Healthcare, Hyderabad, India, October 2017.

- ❖ Invited talk, Current Trends in Hypoxia Research, IIT Delhi, January 2018.
- ❖ Invited talk, International Conference on Molecular Signalling, University of Hyderabad, February 2018.
- ❖ Invited talk, Department of Botany, University of Mysore, March 2018.

Dr. Ananda K. Sarkar

- ❖ "Regulation of plant root architecture by a conserved small RNA pathway", Amity University, Jaipur (Raj. Sci. Congress), October 13, 2017.
- ❖ "Regulation of plant root developmental pattern by conserved small RNA pathway", NISER, Bhubaneswar (ICPDB), November 13, 2017.
- ❖ "Conserved small RNAs Regulating Root Development in Monocot and Dicot Plants", Department of Botany, Calcutta University, March 18, 2018.
- ❖ "Stem Cell Maintenance and Organ Patterning in Higher Plants", Department of Botany, Calcutta University, March 18, 2018.

Dr. Gopaljee Jha

- ❖ A prophage tail-like protein is deployed by Burkholderia bacteria to feed on fungi, in the symposium "Molecular Intricacies of Plant Associated Microorganisms-2017" held at Indira Gandhi National Tribal University, Amarkantak, October 27 – 29, 2017.
- ❖ A prophage tail-like protein is deployed by Burkholderia bacteria to feed on fungi, during 86th SBC(I) Annual Meeting on Emerging Discoveries in Health and Agricultural Sciences held at JNU, New Delhi, November 16 – 19, 2017.
- ❖ A prophage tail-like protein is deployed by Burkholderia bacteria to feed on fungi, IJIM, Jammu, January 30, 2018.

Dr. Senthil-Kumar Muthappa

- ❖ Ralstonia-tomato interaction under different soil moisture regimes: dissecting patho-morphological and molecular responses, the interactive meeting on Molecular Intricacies of Plant Associated Microorganisms (MIPAM), Indira Gandhi National Tribal University (IGNTU) Amarkantak, October 27 - 29, 2017.
- ❖ Biotic and Abiotic Stress Interaction in Plants: Concepts and Current Understanding, National Conference of Plant Physiology (NCPPI 2017), organized at IGKV Raipur, November 23-25, 2017.
- ❖ Tomato bacterial wilt under different soil moisture regimes: patho-morphological and molecular responses during stress interaction, National conference on New Vistas in Vegetable Research towards Nutritional Security under Changing Climate Scenario held at TNAU, Coimbatore, December 6 – 9, 2017.
- ❖ Plant nutrients and invading pathogens: how plant defense use SWEETs to stop fuel to the fire?, 10th Young Investigator Meeting (YIM), Thiruvananthapuram, March 5 – 9, 2018.

Dr. Saloni Mathur

- ❖ Heat responsive microRNA: hsf regulatory networks in tomato, The “Plant Biology and Biotechnology” session in BioQuest, School of Life Sciences, University of Hyderabad, October 12-13, 2017.

Dr. Jitender Giri

- ❖ Title "Cutting fertilisers use in crop production using biotechnology", Krishna College, Bijour, January 2018.

Dr. Swarup K. Parida

- ❖ Development and Applications of Molecular Markers in Crop Genetic Improvement, Division of Genetics, ICAR-IARI, ICAR-HRM training programme on 'Genomics-assisted breeding for crop improvement', March 9, 2018.

Dr. Amar Pal Singh

- ❖ Underground Developmental Reprogramming during Nutrient Stress in plants, DIPAS, New Delhi, November 29, 2017.

Dr. Amarjeet Singh

- ❖ Invited as Judge to evaluate DBT sponsored Pathfinder Projects-2018 of graduate students at Gargi College, University of Delhi, 2018.

Dr. Shailesh Kumar

- ❖ “Identifying fusion transcripts using Next Generation Sequencing”, Center for Computational Biology, Indraprastha Institute of Information Technology Delhi, August 22, 2017.
- ❖ “Serge of Genomics data: Microbes to Human”, Maharaja Sayajiro University of Baroda (MSU), Vadodara, India, September 27, 2017.

Participation in National/International Conference/Workshops

Dr. Ramesh V. Sonti

- ❖ Chaired Session on the School of Basic Sciences during the 56th Convocation of IARI at IARI, Pusa, February 6, 2018.
- ❖ 8th Ramalingaswami Conclave at Hotel Ashok and NIPGR, February 15 – 17, 2018.

Prof. Asis Datta

- ❖ Executive Committee Meeting of the All India Congress of Cytology and Genetics (AICCG), August 22, 2017.
- ❖ Delivered the Presidential Address at the 18th All Indian Congress of Cytology and Genetics at the CSIR-Indian Institute of Chemical Biology, Kolkata, January 29, 2018.
- ❖ Delivered a talk on “Amino sugar metabolism a universal virulence determinant in both plant and human pathogens” in the 10th conference on Yeast Biology "Bringing together Leaders: Mechanisms to Systems Approach", February 8, 2018.

Dr. Niranjana Chakraborty

- ❖ 16th HUPO 2017 World Congress at Dublin, Ireland, September 17 - 21, 2017.
- ❖ 3rd Plant Proteomics Workshop at Department of Botany, University of Delhi, December 19 - 23, 2017.
- ❖ International Symposium and Targeted Proteomics Workshop at IIT, Bombay, Mumbai, February 25 - 27, 2018.

Dr. Subhra Chakraborty

- ❖ Attended the Workshop on “Scientific/Technical Writing”, CCS, HAU, Hisar, April 18 - 19, 2017.
- ❖ Attended the Science and Technology Sensitization Programme, Kumayun University, Nainital, June 9 - 11, 2017.
- ❖ Attended the Indo-Iran Workshop to Develop Cooperation in Biotechnology, ICGEB, New Delhi, August 3 - 4, 2017.
- ❖ Attended the Second Lecture Workshop on Women in Science: A Career in Science on “Tryst with one health: understanding plant immunity using integrative omics”, Deen Dayal Upadhyaya College, University of Delhi, August 10 - 11, 2017.
- ❖ Attended the 3rd International Conference on Translational Research (ICTR), Amity University, Kolkata, September 25 - 27, 2017.

- ❖ Attended the National Training Workshop on Recent Advances in Proteomics and Chemo-Informatics in Agriculture, Vateniery and Biomedical Applications, Pantnagar, October 10 - 11, 2017.
- ❖ Attended the National Symposium on Advances in Biology: Exploitation of Phyto-resources, Dr. A.P.J. Abdul Kalam Govt. College, Kolkata, November 2 - 3, 2017.
- ❖ Attended the 9th Annual Meeting of Proteomics Society, India (PSI) and International Conference on Proteomics in Health and Disease, Institute of Life Sciences, Bhubaneswar, November 29 - December 2, 2017.
- ❖ Attended the 3rd Plant Proteomics workshop, Department of Botany, University of Delhi, Delhi, December 19 - 23, 2017.
- ❖ Attended the 18th All India Congress of Cytology and Genetics and the International Symposium on Translating Genes and Genomes, CSIR-IICB, Kolkata, January 29 - 31, 2018.
- ❖ Attended the International seminar entitled 'Frontier's in Biological Sciences', St Xavier College, Kolkata, January 30, 2018.
- ❖ Attended the 6th International Conference on Molecular Signaling (ICMS 2018), University of Hyderabad, Hyderabad, February 8 - 10, 2018.
- ❖ Attended the Targeted Proteomics Workshop and International Symposium (TPWIS-2018), IIT-B, Mumbai, February 24 - 27, 2018.
- ❖ Attended the National Conference on "Impact of Climate Change on Indian Agriculture and Plant Productivity", Jawaharlal Nehru University, New Delhi, March 23-24, 2018.

Dr. Debasis Chattopadhyay

- ❖ Post-transcriptional regulation of lignification of root during stress, 87th Annual General Meeting of National Academy of Sciences, India at Pune University, December 10, 2017.

Dr. Alok Krishna Sinha

- ❖ National conference on Biotechnology and Environment at Jamia Millia Islamia, April 11, 2017.
- ❖ One day conference on "Cell Fate and Signalling" organized by the Department of Genetics, University of Delhi South Campus, October 13, 2017.
- ❖ FBMI meeting at Department of Biochemistry, Lucknow University, December 21 - 22, 2017.
- ❖ National Conference on Plant Physiology, Raipur, November 23 - 27, 2017
- ❖ Guha Research Conference 2017, Kumarakom, Kerala, December 2 - 6, 2017.
- ❖ 86th Society of Biological Chemists (SBC), December 16 - 20, 2017.
- ❖ National Conference on Challenges and Strategies to Improve Crop Productivity in Changing Environment: An Integrated Approach at Zakir Hussain College, DU, New Delhi, January 12, 2018.
- ❖ The International Congress of Cell Biology, Hyderabad, India, January 27 - 31, 2018.
- ❖ Satellite Symposium of Plant Cell Biology at NIPGR, New Delhi, February 2 - 3, 2018.

Dr. Sabhyata Bhatia

- ❖ Identification and characterization of genes involved in chickpea seed development utilizing QTL mapping and transcriptomics approaches, National Symposium on Pulses for Nutritional Security and Agricultural Sustainability at ICAR-Indian Institute of Pulses Research, Kanpur, India, December 2-4, 2017.
- ❖ 4th Annual Meeting of the Chickpea Innovation Lab (ICRISAT), Patancheru, Telangana, India, December 11 – 14, 2017.

Dr. Manoj Prasad

- ❖ Workshop on 'Biodiversity of Kashmir Himalaya', University of Kashmir, Jammu and Kashmir, July 25 - 28, 2017.
- ❖ National Conference on 'Recent Trends in Genetic Engineering and Biotechnology', SRM University, Chennai, Tamil Nadu, September 25 - 26, 2017.
- ❖ UGS-SAP sponsored National Conference on 'Plant-microbe interactions in plant health, disease and biocontrol', The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, October 4, 2017.
- ❖ 18th All India Congress of Cytogenetics and Genetics and International Symposium on 'Translating genes and Genomes', CSIR-Indian Institute of Chemical Biology, Jadavpur, Kolkata, January 29 - 30, 2018.
- ❖ 3rd CAS National Conference on 'Current Trends in Biological Sciences', Sardar Patel University, Gujarat, February 9, 2018.
- ❖ Climate Change Conference, Jawaharlal Nehru University, New Delhi, March 24, 2018.

Dr. Jitendra K. Thakur

- ❖ Workshop on 'Biodiversity of Kashmir Himalaya', Kargil Campus of University of Kashmir, Jammu and Kashmir, July 25-28, 2017.
- ❖ International Symposium on Profiling, Caprica, Lisbon, Portugal, September 4-7, 2017.
- ❖ National symposium on 'Advances in Biology: Exploitation of Phyto-resources' APJ Abdul Kalam Azad College, Kolkata, November 2-3, 2017.
- ❖ National Symposium cum Bioinformatics Workshop on Trends in Genomics: Congruence with Contemporary Biotechnological Tools Interdisciplinary Biotechnology Unit, Aligarh Muslim University, March 20-21, 2018.
- ❖ National seminar on 'New Horizons of Integrative Biology', Department of Botany, University of Calcutta, March 29-30, 2018.

Dr. Gitanjali Yadav

- ❖ India-EMBO Young Scientists Networking (YSN) Meeting, Barcelona, Spain, April 24 - 25, 2017.

- ❖ Commonwealth Science Conference, Singapore, June 12–16, 2017.
- ❖ Ramalingaswami Fellows Conclave, Imphal, August 28 -September 1, 2017.
- ❖ Outreach Event for School Children in Sai Vidya Niketan, Imphal, August 30, 2017.
- ❖ Outreach Activity at Pratidhwani, St Marys School, New Delhi, September 8, 2017.
- ❖ Symposium on Network Biology, New Delhi, October 28, 2017.
- ❖ Marie Curie Sesquicentennial Conference, November 5 – 7, 2017.
- ❖ Discussion Meeting on Invasive Species, Bhuwaneswar, November 24, 2017.
- ❖ Women in Ecology Workshop, January 2018.
- ❖ Satellite Symposium on Plant Cell Biology, NIPGR, New Delhi, February 2 – 3, 2018.
- ❖ BTISNET Annual Coordinators Meeting, Tirunelveli, Tamil Nadu, February 3 – 5, 2018.
- ❖ Regional Conference to Promote Safe and Secure Science in Middle East and South Asia (MESA), Kuala Lumpur, Malaysia, February 6 – 9, 2018.
- ❖ Guest of Honor at INVOLUCRE, SVC Annual Program of Botanical Society, SVC, UDSC, New Delhi, February 13, 2018.
- ❖ INYAS Annual GBM, New Delhi, February 23, 2018.
- ❖ Transforming India's Green Revolution through Research and Empowerment for Sustainable Solutions (TIGR2ESS) Launch Workshop, New Delhi, February 21 – 23, 2018.
- ❖ National Conference on Technological Empowerment of Women, New Delhi, March 8 – 9, 2018.
- ❖ Workshop on tools and techniques in Bioinformatics, IARI, New Delhi, March 12 – 13, 2018.
- ❖ Food Security Venture Creation Weekend, Cambridge, March 23 – 24, 2018.
- ❖ 'Using R for Genomics' Workshop, Cambridge, UK, March 25 – 26, 2018.
- ❖ 'Biological Data Mining with R' Workshop, Cambridge, UK, March 27 – 28, 2018.

Dr. Ashverya Laxmi

- ❖ Delivered invited talk in ICPDB conference and chaired a session, ILS, Bhuwaneswar, Orissa, India, 2017.
- ❖ Delivered invited lecture in India-EMBO Young Investigator meet, Barcelona, Spain, 2017.

Dr. Jagadis Gupta Kapuganti

- ❖ International conference in Biotechnology and Healthcare, Hyderabad, India, October 2017.
- ❖ 3rd meeting on “Current Trends in Hypoxia Research”, IIT, New Delhi, January 29, 2018.
- ❖ International Conference on Molecular Signalling, University of Hyderabad, February 2018.
- ❖ 8th Ramalingaswami Fellows conclave, New Delhi, February 16-17, 2018.
- ❖ One day national symposium on current trends in plant science, University of Mysore, March 2, 2018.

Dr. Ananda K. Sarkar

- ❖ "Regulation of plant root architecture by a conserved small RNA pathway", Amity University, Jaipur (Rajasthan. Sci. Congress), October 13, 2017.
- ❖ "Regulation of plant root developmental pattern by conserved small RNA pathway", NISER, Bhubaneswar (International Conference on Plant Developmental Biology), November 13, 2017.

Dr. Gopaljee Jha

- ❖ India International Science Festival 2017, Chennai, October 13 – 16, 2017.
- ❖ Molecular Intricacies of Plant Associated Microorganisms-2017 at Indira Gandhi National Tribal University, Amarkantak, October 27 – 29, 2017.
- ❖ 86th SBC(I) Annual Meeting on Emerging Discoveries in Health and Agricultural Sciences, JNU, New Delhi, November 16 – 19, 2017.

Dr. Senthil-Kumar Muthappa

- ❖ 7th Ramalingaswami Conclave, Imphal, August 29 - 31, 2017.
- ❖ 'Combined drought and pathogen stress in chickpea, a pulse crop rich in dietary protein' poster in young scientist session of 3rd India International Science Festival, Chennai, October 13 – 16, 2017.
- ❖ 86th The society of Biological Chemists India, SBC Annual Meeting on “Emerging Discoveries in Health and Agricultural Sciences”, JNU, New Delhi, November 16 – 19, 2017.
- ❖ Satellite Meeting on Plant Cell Biology, "Dynamics in Plant Cell-Present and Beyond", NIPGR New Delhi, February 2 -3, 2018.
- ❖ 8th Ramalingaswami Conclave, New Delhi, February 15 – 17, 2018.

Dr. Saloni Mathur

- ❖ American Society for Plant Biologist (ASPB), Honolulu, Hawaii, USA, June 24 - 28, 2017.
- ❖ BioQuest, School of Life Sciences, University of Hyderabad, October 12 - 13, 2017.
- ❖ Dynamics in Plant Cell: Present and beyond, NIPGR, New Delhi, February 2 - 3, 2018.
- ❖ "National Conference on Technological Empowerment of Women” organized by NASI, Vigyan Bhavan, New Delhi, March 8-9, 2018.

Dr. Jitender Giri

- ❖ "A Rice bHLH Transcription Factor (OsRSM1) Improves Phosphate (Pi) Uptake by Regulating Root Hair Length", National Conference of Plant Physiology-2017, Raipur, Chhattisgarh, November 2017.

Dr. Pinky Agarwal

- ❖ Dynamics in plant cell: present and beyond, NIPGR, February 2, 2018.
- ❖ 8th conclave of Ramalingaswami fellows, New Delhi, February 15, 2018.
- ❖ EMBO Research Leadership Course, New Delhi, March 19 - 22, 2018.

Dr. Jyothilakshmi Vadassery

- ❖ International Calcium Signaling Meeting, John Innes Center, UK, September 2017.
- ❖ Plant-insect interactions across gradients, workshop at NCBS, Bangalore, November 16-17, 2017.

Dr. Aashish Ranjan

- ❖ 7th Ramalingaswami Conclave, Imphal, August 29 - 31, 2017.
- ❖ International Conference on Plant Developmental Biology, NISER, Bhubaneswar, December 12 – 16, 2017.
- ❖ 8th Ramalingaswami Conclave, New Delhi, February 15 – 17, 2018.

Dr. Senjuti Sinharoy

- ❖ 7th Ramalingaswami Conclave, Imphal, August 29 - 31, 2017.
- ❖ 8th Ramalingaswami Conclave, New Delhi, February 15 – 17, 2018.

Dr. Amar Pal Singh

- ❖ Participated in a Satellite Meeting to International Congress of Cell Biology, Dynamics in Plant Cell: Present and Beyond, NIPGR, New Delhi, February 2 – 3, 2018.

Study Tours at the Institute

The students from the following Universities/Colleges/School(s) visited NIPGR to familiarize themselves with the frontier research being carried out at NIPGR and interacted with the faculty.

- ❖ Students of M.Sc. (Integrated Biotechnology Course), Kerala Agricultural University, April 5, 2017.
- ❖ Students of Class XII, Tagore International School, Vasant Vihar, Delhi, May 5, 2017.
- ❖ Teachers from North-Eastern Region for Teacher's training programme on "Lab Instrumentation and Swachh Bharat", May 16, 2017.
- ❖ Students of M.Sc. (Food Science, Biochemistry, Bioinformatics and Biotechnology), School of Biosciences, Mar Athanasios College for Advanced Studies Tiruvalla, Kerala, May 29, 2017.
- ❖ Students of Class XI and XII, CSKM Public School, Satbari, Mehrauli, September 20, 2017.
- ❖ Students of B.Tech. (Bioinformatics and Biotechnology), Tamil Nadu Agricultural University, Agricultural College and Research Institute, Coimbatore, September 23, 2017.
- ❖ Students of M.Sc. (Botany), Department of Botany, Gauhati University, Assam, November 6, 2017.

Visitors at the Institute

- ❖ An Iranian Delegation comprising of Dr. Vahid Baniasadi, Director, International Relations Office, Pasteur Institute of Iran; Prof. Massoud Houshmand, Faculty Member, Institute of Medical Biotechnology; Dr. Morteza Daliri, Faculty Member, Institute of Agricultural Biotechnology; Dr. Mehrshad Zeinolabedini, Asstt. Professor, Deptt. of Systems Biology, Agriculture Biotechnology Research Institute; Dr. Hamid Reza Soleimanpour, Faculty Member, Institute of Medical Biotechnology; Dr. Mehdi Forouzandeh Moghadam, Tarbiat Modares University; Prof. Mohammadreza Zamani, Director General, NIGEB; Prof. Mohd Ali Malboobi, FABA President, DDG, NIGEB; Dr. Mohammadali Asadollahi, University of Isfahan; Dr. Mansour Mashreghi, Firdowsi University of Mashhad; Dr. Farhad Shokouhifar, Asstt. Prof., Firdowsi University of Mashhad; Dr. Fakhrisadat Hosseini, Alzahra University, Iran visited NIPGR to discuss some scientific issues with Director and other senior scientists of NIPGR and visited some of the well-equipped laboratories of NIPGR on August 2, 2018.
- ❖ A delegation comprising Dr. Gustavo Makanaky, Counsellor for Cooperation, Embassy of Colombia; Dr. Dindo Campilan (Director, CIAT Asia) and Dr. Lou Verchot (Research Director) and Dr. Maya Rajasekharan, (Head of Global Program Management) of the International Center for Tropical Agriculture (CIAT), Colombia visited NIPGR to share and discuss opportunities with Dr. Niranjana Chakraborty, Director, NIPGR for strengthening bilateral relations between NIPGR and CIAT on August 10, 2017.
- ❖ A team of scientists/officers comprising Dr. M.S. Rao, Dr. Ashwini Ranade and Mr. M. Furqan Ullah from National Institute of Hydrology, Roorkee, visited NIPGR library to study the infrastructure and facilities available in the library and to discuss the issues with the Librarian & Information Scientist in management, organization and dissemination of scientific research output on August 28, 2017.
- ❖ Prof. T. J. Higgins, Canberra, Australia (sponsored by INSA) visited the Institute to discuss about scientific projects on September 29, 2017.
- ❖ Prof. Luis Mur, Aberystwyth University visited the Institute as part of collaboration with UKIERI in September 2017.

Symposia/Workshop/ Special Lectures/Events Organized

International Yoga Day (June 21, 2017)

The 3rd International Yoga Day celebrated on June 21, 2017. On this occasion, a Seminar on 'समग्रस्वास्थ्यवयोग' by Dr. Ajay Kumar Shastri, Yogacharya, Jawaharlal Nehru University was organized which was also comprised of a brief session on SukshamVyayam, Pranayam and Meditation. Besides, Yogabhyaas for one hour was conducted in the evening wherein all staff members with their families, students and researchers participated with full enthusiasm.



Participants of Yogabhyaas

Annual Student Research Symposium – SciEfflux-2017 (August 04-05, 2017)

The Institute organized a two-day Student Research Symposium during August 04-05, 2017. On this occasion, the 2nd and 4th year students of the Institute delivered their presentations related to theme and progress of their research followed by a cultural event “RAINBOW”.



Inauguration of Annual Student Research Symposium – SciEfflux-2017
(L-R Dr. Niranjana Chakraborty, Ms Deepika Mittal, Dr. Jitendra K. Thakur and Shri Manish Tiwari)



Students performing in the cultural event “RAINBOW”

Hindi Pakhwara (September 01-14, 2017)

Hindi Pakhwara was observed during September 1-14, 2017 in the Institute. All the members of the staff, student and researchers were requested to do maximum work in Hindi during this period. The staff members were encouraged to use Hindi in the deliberations of the meetings, seminars, etc. organized during this period, to work in Hindi on computers and to opt for forms in Hindi which are used for various purposes in the Institute, besides all other official works.

In addition to above, Nibandh Pratiyogita, Shrutlekh Pratiyogita and Sulekh Pratiyogita were organized to commemorate “Hindi Diwas” on September 14, 2017. Members of NIPGR community participated enthusiastically in the events. The best two essays in the Nibandh Pratiyogita, one in Shrutlekh Pratiyogita and one in the Sulekh Pratiyogita were conferred prize and certificate on the occasion of Foundation Day of the Institute.

3rd India International Science Festival (IISF-2017) - Public Outreach Day (September 08, 2017)

Institute has organized a Public Outreach Day on September 08, 2017, as a precursor event of 3rd Indian International Science Festival (IISF-2017), held during October 13-16, 2017 at Chennai, with the theme 'Science for New India'. The aim is to popularize the science and showcase research and developments to young innovators, teachers, students and individuals working in the field of science. Scientists from the Institute have won Best Poster Awards in three different themes in this Science Festival.



Prof. Sudhir K. Sopory inaugurating the Public Outreach Day

Vigilance Awareness Week (October 30, 2017- November 04, 2017)

The 'Vigilance Awareness Week' was observed by NIPGR during October 30, 2017 to November 04, 2017 with the theme 'My Vision-Corruption Free India'. An Integrity Pledge was organized on October 30, 2017, in which staff members/students/researchers of the Institute participated. All members of NIPGR were sensitized to promote integrity, transparency and accountability in their public life, by circulating the CVC instructions and displaying banners, etc. The officials of NIPGR were motivated to follow the anti-corruption practices in all official procedures. Additionally, a workshop was conducted by the Chief Vigilance Officer (CVO), NIPGR, which emphasized to create awareness against corruption and refraining from indulging in dishonest and unethical activities.

Foundation Day (November 30, 2017)

The Institute celebrated its 19th Foundation Day by organizing “J. C. Bose Memorial Lecture” on November 30, 2017. On this occasion, Dr. Rajan Sankaranarayanan, Chief Scientist, Structural Biology Laboratory, CSIR- Centre for Cellular and Molecular Biology, Hyderabad delivered the lecture on “Chirality based proofreading mechanisms during translation of the genetic code”. Besides, researchers/students of the Institute were facilitated with medals/mementos/certificates for the best scores in Ph.D. course work, for best presentation in Students Research Symposium 2017 and for the best two essays in the Hindi Nibandh Pratiyogita, Hindi Shrutlekh Pratiyogita and in the Hindi Sulekh Pratiyogita conducted during Hindi Pakhwara. The invited guests from nearby institutions as well as staff and students of the Institute attended the function.



Dr. Rajan Sankaranarayanan and Prof. K. VijayaRaghavan, lighting the lamp on 19th Foundation Day of NIPGR

Hindi Workshop on “देवनागरी लिपि मानक वर्तनी एवं व्याकरणिक भूलें” (December 14, 2017)

According to the Official Language Act / Rules of the Government of India, the use of Hindi language in Government functioning has been progressively strengthened. In pursuance to this, a workshop on “देवनागरी लिपि मानक वर्तनी एवं व्याकरणिक भूलें” was organized on December 14, 2017 at the Institute. Smt. Kamlesh Bajaj, Assistant Director, Central Hindi Training Institute, Department of Official Language, Ministry of Home Affairs, New Delhi conducted the workshop. The staff members of the institute enthusiastically participated in the said workshop.



Dr. Ramesh V. Sonti, Director, NIPGR welcoming Smt. Kamlesh Bajaj, Assistant Director, Central Hindi Training Institute, New Delhi



Participants of the workshop

Satellite Symposium on “Plant Cell Biology 2018” (February 02-03, 2018)

The Satellite meeting of the International Congress of cell biology 2018 on the topic 'Dynamics in Plant Cell: Present and Beyond', was held in the Institute during February 2-3, 2018. Around 12 speakers from India and abroad delivered stimulating talks on the topic and interacted with students and researchers of the Institute during the poster session. The meeting was also attended by Scientists from other Institutes.



Participants of Satellite Symposium

8th Conclave of Ramalingaswami Fellows (February 15-17, 2018)

On behalf of DBT the institute organized the 8th Conclave of Ramalingaswami Fellows. Over 160 participants consisting of fellows, senior scientists as mentors/reviewers and heads of various universities and institutions in the country have participated in the conclave from 15th to 17th February 2018. The directory of Ramalingaswami Fellows was compiled on this occasion of 10th year of the DBT Ramalingaswami Re-entry fellowship program. Hon'ble Union Minister for Science and Technology and Earth Sciences, Minister of Environment, Forest and Climate Change, Dr. Harsh Vardhan visited NIPGR to address the conclave. The conclave consisted of exciting sessions on mentorship talks, grant writing and funding opportunities. This event was widely published in media and an exclusive website (<http://www.nipgr.res.in/conclave/home.php>) consisting of talks, event summary, directory and related materials are hosted for open access of the scientific community.



Dr. Harsh Vardhan, Hon'ble Union Minister for Science and Technology and Earth Sciences, Minister of Environment, Forest and Climate Change and Dr. Ramesh V. Sonti, Director, NIPGR interacting with the Ramalingaswami fellows



Participants of the Conclave of Ramalingaswami Fellows

Hindi Workshop on “टिप्पण एवं प्रारूप लेखन” (March 12, 2018)

All the staff members, students and researchers have constantly been encouraged to ensure maximum use of HINDI in all official works. Efforts have also been made to deliberate in HINDI, in the meetings, seminars, etc., organized during this period. Accordingly, a workshop on “टिप्पण एवं प्रारूप लेखन” was organized on March 12, 2018 at the Institute. Smt. Kamlesh Bajaj, Deputy Director, Central Hindi Training Institute, Department of Official Language, Ministry of Home Affairs, New Delhi conducted the workshop. The staff members of the institute enthusiastically participated in the said workshop.



**Smt. Kamlesh Bajaj, Deputy Director, Central Hindi Training Institute,
New Delhi conducting the workshop**

Monthly Seminar Series (2017-2018)

Sl. No.	Name of the Scientist / Invited Speaker	Lecture	Date
1.	Dr. Ranjan Swarup The University of Nottingham, UK	Auxin regulates root hair elongation in response to low external phosphate	April 07, 2017
2.	Mr. Sunil Kumar Yadav National Institute of Plant Genome Research (NIPGR)	A prophage tail-like protein is deployed by Burkholderia bacteria to feed on fungi.	August 03, 2017
3.	Dr. Tina Barsby National Institute of Agricultural Biotechnology (NIAB), Cambridge, U.K.	NIAB: Leading the UK in Crop Innovation.	September 29, 2017
4.	Dr. Baishnab C. Tripathy Jawaharlal Nehru University (JNU)	C4 Rice: How Far and How Near?	October 25, 2017
5.	Prof. Ari Sadanodan Department of Biosciences Durham University, UK	SUMO and stress signalling in plants	November 10, 2017
6.	Dr. Papri Banerjee C-CAMP, Bengaluru	BIRAC BIG Scheme:12th Call; C-CAMP: A BIG Partner	December 18, 2017
7.	Dr. Shahid Jameel Director of the Wellcome Trust/DBT India Alliance	A Life in Science	January 08, 2018
8.	Dr. Amit Asthana Principal Scientist, CCMB, India	Application of Paper-Based Device and Nanodelivery System	March 16, 2018

Academic Courses and Training Programmes

Ph. D. Programme

As in the previous years, the response for admission to Institute's Ph. D. programme was very encouraging this year also. The candidates are selected after a national level test followed by interview conducted by NIPGR. Only CSIR/UGC/DBT-JRF/ICMR Fellowship awardees are eligible to apply. The selected scholars are first required to do course work, which is followed by research work on different areas on Plant Genomics in various laboratories. A total number of 225 students have registered for the Programme leading to Ph. D. degree to JNU since the Academic year 2001-2002 and out of these, 105 students have been awarded with Ph. D. degree, and the rest are at various stages of their Ph. D. work.

Student enrolled for Ph. D. programme 2017-18

Sl. No.	Name of the Student	Name of the Supervisor
1.	Mr. Sunil Kumar	Dr. Niranjan Chakraborty
2.	Ms. Atreyee Sengupta	Dr. Subhra Chakraborty
3.	Mr. Mayank Singh	Dr. Subhra Chakraborty
4.	Ms. Paheli Malakar	Dr. Debasis Chattopadhyay
5.	Ms. Ankita Shree	Dr. Praveen Verma
6.	Ms. Ritu Singh	Dr. Praveen Verma
7.	Mr. Ashish Prasad	Dr. Manoj Prasad
8.	Ms. Rekha Agrawal	Dr. Jitendra K. Thakur
9.	Mr. Shubhashis Das	Dr. Jitendra K. Thakur
10.	Ms. Citu	Dr. Gitanjali Yadav
11.	Mr. Vishal Varshney	Dr. Manoj Majee
12.	Ms. Richa Priyadarshini	Dr. Pinky Agarwal
13.	Ms. Priya Jaiswal	Dr. Pinky Agarwal
14.	Ms. Aditi Dwivedi	Dr. Aashish Ranjan
15.	Ms. Sushma Sagar	Dr. Amarjeet Singh
16.	Mr. Ramsankar C	Dr. Amarjeet Singh
17.	Ms. Shafaque Zahra	Dr. Shailesh Kumar
18.	Mr. Ajeet Singh	Dr. Shailesh Kumar
19.	Mr. Bikash Raul	Dr. Senjuti Sinha Roy
20.	Mr. Shubhajit Das	Dr. Amar Pal Singh
21.	Mr. Jogindra Naik	Dr. Ashutosh Pandey
22.	Ms. Ruchika	Dr. Ashutosh Pandey

Students pursuing Ph.D. at the Institute (excluding those enrolled during 2017-18)

Sl. No.	Name of the Student	Name of the Supervisor and Joint Supervisor
1.	Ms. Priyanka Jawa	Dr. Subhra Chakraborty
2.	Mr. Vinay Kumar	Dr. Jitendra K. Thakur
3.	Ms. Sweta Das	Prof. Akhilesh K. Tyagi and Dr. Pinky Agarwal
4.	Ms. Alice Kujur	Dr. Swarup K. Parida
5.	Mr. Vikas Dwivedi	Dr. Debasis Chattopadhyay
6.	Ms. Iny Elizebeth Mathew	Dr. Pinky Agarwal
7.	Ms. Pooja Rani Aggarwal	Dr. Subhra Chakraborty
8.	Ms. Divya Rathi	Dr. Niranjana Chakraborty
9.	Ms. Pragya Barua	Dr. Niranjana Chakraborty
10.	Ms. Arunima Sinha	Dr. Subhra Chakraborty
11.	Mr. Subodh Verma	Dr. Sabhyata Bhatia
12.	Mr. Angad Kumar	Dr. Jitender K. Thakur
13.	Ms. Archana Yadav	Dr. Gitanjali Yadav
14.	Mr. Kamble Nitin Uttam	Dr. Manoj Majee
15.	Ms. Deepti M. Nambiar	Dr. Naveen Chandra Bisht
16.	Mr. Sandeep Yadav	Dr. Ananda K. Sarkar
17.	Ms. Arunima Matho	Dr. Pinky Agarwal
18.	Ms. Divya Mishra	Dr. Niranjana Chakraborty
19.	Ms. Pooja Choudhary	Dr. Subhra Chakraborty
20.	Ms. Deepanjali Verma	Dr. Alok Krishna Sinha
21.	Mr. Prakash K. Bhagat	Dr. Alok Krishna Sinha
22.	Mr. Manish Tiwari	Dr. Sabhyata Bhatia
23.	Mr. Amish Kumar	Dr. Gitanjali Yadav
24.	Mr. Mohan Sharma	Dr. Ashverya Laxmi
25.	Mr. Pawan Kumar	Dr. Naveen Chandra Bisht
26.	Mr. Pramod Kumar	Dr. Ananda K. Sarkar
27.	Ms. Isha Tyagi	Dr. Gopaljee Jha
28.	Mr. Srayan Ghosh	Dr. Gopaljee Jha
29.	Mr. Sombir	Dr. Saloni Mathur
30.	Ms. Urooj Fatima	Dr. Senthil K. Muthappa
31.	Ms. Aarzo Qamar	Dr. Senthil K. Muthappa
32.	Mr. Shouvik Das	Dr. Swarup K. Parida
33.	Mr. Lande Nilesh Vikram	Dr. Niranjana Chakraborty

Sl. No.	Name of the Student	Name of the Supervisor and Joint Supervisor
34.	Mr. Pramod Kumar Mittal	Dr. Subhra Chakraborty
35.	Mr. Nilesh Kumar Sharma	Dr. Debasis Chattopadhyay
36.	Mr. Niraj K. Vishwakarma	Dr. Debasis Chattopadhyay
37.	Ms. Stanzin Noryang	Dr. Alok Krishna Sinha
38.	Ms. Kanchan Prabha	Dr. Praveen Verma
39.	Mr. Shreenivas K. Singh	Dr. Praveen Verma
40.	Mr. Roshan Kumar Singh	Dr. Manoj Prasad
41.	Ms. Annvi Dhaka	Dr. Manoj Prasad
42.	Mr. Sanjeet K. Mahtha	Dr. Gitanjali Yadav
43.	Ms. Manvi Sharma	Dr. Ashverya Laxmi
44.	Ms. Dhriti Singh	Dr. Ashverya Laxmi
45.	Ms. Shraboni Ghosh	Dr. Manoj Majee
46.	Mr. Sunil Kumar Yadav	Dr. Gopaljee Jha
47.	Ms. Sarita Jha	Dr. Saloni Mathur
48.	Ms. Aanchal Choudhary	Dr. Senthil K. Muthappa
49.	Mr. Sandeep Kumar Dixit	Dr. Senthil K. Muthappa
50.	Mr. Ajit Pal Singh	Dr. Mukesh Jain
51.	Mr. Ankit Verma	Dr. Pinky Agarwal & Prof. Akhilesh K. Tyagi
52.	Mr. Daware Anurag Vasantao	Dr. Swarup K. Parida & Prof. Akhilesh K. Tyagi
53.	Ms. Akanksha Pareek	Dr. Niranjan Chakraborty
54.	Ms. Megha Choudhary	Dr. Debasis Chattopadhyay
55.	Ms. Lalita Pal	Dr. Debasis Chattopadhyay
56.	Ms. Kirti	Dr. Alok Krishna Sinha
57.	Ms. Sumaira Tayyeba	Dr. Alok Krishna Sinha
58.	Ms. Rekha Rani	Dr. Praveen Verma
59.	Mr. Saurabh Pandey	Dr. Manoj Prasad
60.	Ms. Archana Tiwari	Dr. Ashverya Laxmi
61.	Mr. Yeshveer Singh	Dr. Praveen Verma
62.	Mr. Gourav Singh	Dr. Sabhyata Bhatia
63.	Ms. Juhi Kumari	Dr. Naveen C. Bisht
64.	Mr. Pradeep K. Pathak	Dr. Jagadis G. Kapuganti
65.	Ms. Mahima	Dr. Ananda K. Sarkar
66.	Mr. Vishnu Mishra	Dr. Ananda K. Sarkar
67.	Ms. Kirti Tyagi	Dr. Gopaljee Jha
68.	Ms. Chandni Bansal	Dr. Saloni Mathur
69.	Mr. Vadivel Murugan I.	Dr. Senthil K Muthappa
70.	Mr. Lokesh Verma	Dr. Jitender Giri

Sl. No.	Name of the Student	Name of the Supervisor and Joint Supervisor
71.	Ms. Jyoti Bhadouria	Dr. Jitender Giri
72.	Ms. Laxmi	Dr. Swarup K. Parida
73.	Mr. Virevol Thakro	Dr. Swarup K. Parida
74.	Ms. Deepika Mittal	Dr. Jyothilakshmi Vadassery
75.	Mr. Ramgopal	Dr. Jyothilakshmi Vadassery
76.	Ms. Juhi Bhattacharya	Dr. Aashish Ranjan
77.	Mr. Jyotirmaya Mathan	Dr. Aashish Ranjan
78.	Md. Yasir Arafat	Dr. Subhra Chakraborty
79.	Ms. Archana	Dr. Subhra Chakraborty
80.	Ms. Latika Bhola	Dr. Subhra Chakraborty
81.	Ms. Aleena Francis	Dr. Debasis Chattopadhyay
82.	Mr. Gopal Banerjee	Dr. Alok Krishna Sinha
83.	Mr. Baljinder Singh	Dr. Sabhyata Bhatia
84.	Mr. Anirban Chakraborty	Dr. Sabhyata Bhatia
85.	Mr. Jawahar Singh	Dr. Praveen Verma
86.	Ms. Shambhavi	Dr. Manoj Prasad
87.	Mr. Hari Gowthem G.	Dr. Manoj Prasad
88.	Ms. Harshita Bharti Saksena	Dr. Ashverya Laxmi
89.	Mr. Abhijit Hazra	Dr. Manoj Majee
90.	Ms. Ruchi Tiwari	Dr. Naveen Chandra Bisht
91.	Ms. Namrata Singh	Dr. Jagadis G. Kapuganti
92.	Ms. Pooja Singh	Dr. Jagadis G. Kapuganti
93.	Ms. Joyati Das	Dr. Gopaljee Jha
94.	Ms. Jaishri Rubina Das	Dr. Saloni Mathur
95.	Ms. Poonam Panchal	Dr. Jitender Giri
96.	Ms. Udit Basu	Dr. Swarup K. Parida
97.	Mr. Vinod K. Prajapati	Dr. Jyothilakshmi Vadassery
98.	Mr. Vikram Dattatray Jathar	Dr. Aashish Ranjan

Ph. D. Degrees awarded to NIPGR Scholars

The Jawaharlal Nehru University, New Delhi, awarded the degree of Doctoral of Philosophy to the following scholars of the Institute during the year (2017-18) under report:

Sl. No.	Name of the student	Thesis Title	Name of the Supervisor/Joint Supervisor
1.	Dr. Venkateswara Rao	Molecular and Functional Characterization of SKP1 like proteins from plants	Dr. Manoj Majee
2.	Dr. Archita Singh	Small RNA mediated regulation of Root Branching and Root Architecture in <i>Arabidopsis thaliana</i>	Dr. Ananda K. Sarkar
3.	Dr. Naveen Malik	Investigations on the role of rice seed preferential Mediator subunit genes during development	Dr. Pinky Agarwal & Prof. Akhilesh Kumar Tyagi
4.	Dr. Namisha Sharma	Role of small interfering RNAs for <i>Tomato Leaf Curl New Delhi Virus</i> tolerance in Tomato	Dr. Manoj Prasad
5.	Dr. Vikash Kumar Singh	Exploring Transcriptional Complexity of Chickpea Development and Genome-wide Analysis of Selected Gene Families	Dr. Mukesh Jain
6.	Dr. Poonam Mehra	Identification and functional characterization of genes involved in Phosphorus Deficiency Response in Rice Root	Dr. Jitender Giri
7.	Dr. Manisha	Molecular and functional characterization of <i>Ascochyta rabiei</i> gene(s) involved in early stages of pathogenesis	Dr. Praveen Verma
8.	Dr. Garima Pandey	Genome-wide development of microsatellite markers and comparative analysis of methylome under abiotic stress in foxtail millet [<i>Setaria italica</i> (L) P. Beauv.]	Dr. Manoj Prasad
9.	Dr. Pradeep Dahiya	Study of Arrangement of subunits of the Head Module of <i>Arabidopsis thaliana</i> Mediator complex	Dr. Jitendra K. Thakur

Sl. No.	Name of the student	Thesis Title	Name of the Supervisor/Joint Supervisor
10.	Dr. Bipin Kumar Pandey	Transcriptome profiling of Phosphate Starvation Response in Rice and Functional Characterization of candidate gene	Dr. Jitender Giri
11.	Dr. Hitaishi Khandal	Regulation of root development by hormone and miRNAs	Dr. Debasis Chattopadhyay
12.	Dr. Nidhi Dwivedi	Functional Study of Mediator Subunits in Rice	Dr. Jitendra K. Thakur
13.	Dr. Sharmila Singh	SWP1 and SIRTUINS mediated epigenetic regulation of plant meristem activity and development	Dr. Ananda K. Sarkar
14.	Dr. Roshan Kumar	Isolation and functional characterization of heterotrimeric G α subunit and regulator of G-protein signaling (RGS) genes from <i>Brassica</i> species	Dr. Naveen Chandra Bisht
15.	Dr. Sourobh Maji	Protein level interactions to define arrangement of subunits in middle module of <i>Arabidopsis</i> Mediator complex	Dr. Jitendra K. Thakur
16.	Dr. Gulab Chand Arya	Isolation and functional characterization of heterotrimeric G-protein beta (G β) and gamma (GY) subunit genes from <i>Brassica juncea</i>	Dr. Naveen Chandra Bisht
17.	Dr. Saurabh Gayali	The effects of dehydration stress on chickpea (<i>Cicer arietinum</i> L.) mitochondria: a functional proteomics approach	Dr. Niranjana Chakraborty
18.	Dr. Savithri Purayannur	Unraveling the signaling and regulatory components of chickpea associated with induced immune response	Dr. Praveen Verma
19.	Dr. Chandra Kant	Analysis of root nodule transcriptome in chickpea (<i>Cicer arietinum</i> L.)	Dr. Sabhyata Bhatia
20.	Dr. Rajeev Ranjan	Investigations on Regulation and Functions of Anther-Specific Genes from Rice	Dr. Pinky Agarwal & Prof. Akhilesh Kumar Tyagi
21.	Dr. Rama Shankar	Understanding Transcriptional and Epigenomic Complexity of Abiotic Stress Responses in Rice	Dr. Mukesh Jain

Researchers other than Ph.D. students

Research Associates

1	Aarti Gupta	29	Jitendra Kumar Singh
2	Aarti Pandey	30	K. Hanumantha Rao
3	Abhay Pratap Vishwakarma	31	Kamal Kumar
4	Abhimanyu Jogawat	32	Kanika Narula
5	Abira Choudhary	33	Kumud Saini
6	Akanksha Wany	34	Magdi Abdellatef
7	Anil Kumar	35	Mahesh S. Patil
8	Anish Kundu	36	Mamta Rani
9	Ankur Vichitra	37	Manish Kumar Patel
10	Anuj Dwivedi	38	Manisha Sinha
11	Anupama Goyal	39	Mohammed Irfan
12	Anuradha Singh Yadav	40	Mohd. Aminul Islam
13	Aparajita Jha	41	Muhammed Jamsheer K
14	Arunava Mandal	42	Mukesh Kumar Meena
15	Ashutosh Kumar	43	Muthamilarasan M.
16	Ayan Das	44	Namisha Sharma
17	Bendangchuchang Longchar	45	Naveen Malik
18	Bhoomika Varshney	46	Neelam Soda
19	Chandana Pandey	47	Neelofer Mirza
20	Chandrabhan Yadav	48	Nidhi Dwivedi
21	Debaleena B. Chattopadhyay	49	Nisha Lakhotia
22	Deepak Gayen	50	Pankaj Kumar
23	Deepika Sharma	51	Pankaj Kumar Verma
24	Durga Madhab Swain	52	Piyush Priya
25	Eman Elagamey	53	Pooja Verma
26	Hema Ramanna	54	Poonam Kanwar
27	Hitaishi Khandal	55	Poonam Mehra
28	Irshad Ahmed	56	Prachi Pandey

57	Pradeep Dahiya	77	Shefali Pal
58	Prafull Salvi	78	Shivendra Kumar
59	Pramod Kumar Bajpai	79	Shubhendu Shekhar
60	Preeti Singh	80	Shweta
61	Priyanka Dhakate	81	Shweta Roy
62	Priyanka Sood	82	Sonia Chhillar Balyan
63	Raghu Ram B.	83	Sonika Pandey
64	Rahul Kumar	84	Sudip Ghosh
65	Raj Kumar Mohan Singh	85	Sunita Jindal
66	Ranjita Sinha	86	Swati Verma
67	Rashmita Samal	87	Tirthankar Bandopadhyay
68	Ravikant	88	Toshiba Haidar
69	Rehna Augustine	89	Upendra Kumar Singh
70	Renu Kumari	90	Venkateswara Rao
71	Roshan Kumar	91	Vibhav Gautam
72	Sandhya Verma	92	Vijay Wardhan
73	Santosh Kumar	93	Vimal Kumar Pandey
74	Sayanti Kundu	94	Vinay Kumar
75	Shalini Mukherjee	95	Zeeshan S. Banday
76	Sharmila Singh		

Project Fellows

1	Aditi Dwivedi	12	Ashverya Krishnan
2	Akash	13	Asis Khuntia
3	Akash Sharma	14	B. Rengasamy
4	Alice Kujur	15	Bhawna Israni
5	Alka Singh	16	Bipin Kumar Pandey
6	Anajali Chaubey	17	Deepak Bajaj
7	Ankita Magotra	18	Deepthi Krishna P.
8	Ankita Shree	19	Dharanapathi K.
9	Anoop Kishore Singh Gurjar	20	Dipul Kumar Biswas
10	Antara Malik	21	Drishti Mandal
11	Aprajita Kumari	22	Gulab Chand Arya

23	Iny E. Mathew	41	Rashmi Maurya
24	Jitendra Verma	42	Rashmi Renu Sahoo
25	Jyotsna Pandey	43	Rengasamy
26	Karishma	44	Rishi Srivastava
27	Kasturi Roy	45	Ritika Kulshrestha
28	Khusboo Gupta	46	Saurabh Gayali
29	Koushik Halder	47	Savithri Purayannur
30	Mohd. Waseem	48	Sekhu Ansari
31	Nikita Gupta	49	Shilpi Singh
32	Omkar Nath	50	Shruti Mishra
33	Oshin A. Sharma	51	Shubham Rai
34	Pooja R. Aggarwal	52	Sourobh Maji
35	Poonam Mishra	53	Surabhi Dixit
36	Priya Rani	54	Sweta Das
37	Priyanka Ghorai	55	Vikas Dwivedi
38	Rajeev Ranjan	56	Vikash Kumar Singh
39	Rajul Tayal	57	Vinay Kumar
40	Rama Shankar	58	Vinod Kumar

Training Programme

The Institute accepts students from different Universities/Institutes as trainees and provides them facilities and guidance. A list of students from various universities/institutions trained by faculty of the Institute is given below:

Trainees at Post Graduate level

1.	Aayushi Singh Rathore	M.Sc. (Life Science), Devi Ahilya Vishwavidyalaya, Indore, M.P.
2.	Akansha Mishra	Devi Ahilya Vishwavidyalaya, Indore M.P.
3.	Akansha Singhai	M.Sc. (Biotechnology - III Sem), St. Aloysius College, Jabalpur, M.P.
4.	Ankita Raj	M.Sc. (Plant Biotechnology - 2 nd year), TERI University, New Delhi
5.	Antara Malik	M.Sc. (Biotechnology), Jamia Milia Islamia, New Delhi.
6.	Apoorva Gupta	M.Sc. (Plant Biotechnology), TERI University, New Delhi
7.	Apoorva Teotia	M.Sc. (Plant Biotechnology - 4 th Semester), TERI University, New Delhi
8.	Ashutosh	M.Sc. (Biotechnology), Institute of Management Studies, Ghaziabad, U.P.
9.	Avni Jain	M.Sc. (Biochemistry - Semester III), Jamia Millia Islamia, New Delhi
10.	B.R. Chandana Gowda	Jr. M.Sc. (GPB), University of Agricultural and Horticultural Science, Karnataka
11.	Bidisha Bhowal	M.Tech. (IBT - 2 nd year), Delhi Technological University, Delhi
12.	Divya Jain	M.Sc. (Plant Biotechnology), TERI University, New Delhi
13.	Gayathri S.	M.Sc. (Life Sciences), Central University of Tamil Nadu, Thiruvavur, Tamil Nadu
14.	Hira Malik	M.Sc. (Botany), Surajmal Agarwal Private Kanya Mahavidyalaya, Uttarakhand
15.	Ishani Paithankar	M.Sc. (Plant Biotechnology), TERI University, New Delhi
16.	Ishita Bajaj	M.Sc. (Plant Biology), TERI University, New Delhi
17.	K. Sivaraj	M.Sc. (Botany), Bharathidasan University, Tiruchirappalli, Tamil Nadu
18.	Kajal Sharma	M.Sc. (Biochemistry), Devi Ahilya Vishwavidyalaya, Indore, M.P.

19.	Karan Arora	M.Sc. (Immunology), Amity Institute of Virology and Immunology, Amity University, U.P.
20.	Kavya K R	M.Sc. (Biotechnology - 3 rd Semester), Cochin University of Science and Technology, Cochin, Kerala
21.	Khushnuma Tanveer	M.Sc. (Bioinformatics), Jamia Milia Islamia, New Delhi
22.	Komal Kumari	M.Sc. (Plant Biotechnology), TERI University, New Delhi
23.	Kritika Bharti	B.Tech/M.Tech Student, Jaypee Institute of Information Technology, Noida, U.P.
24.	Laxmi Tiwari	M.Sc. (Biotechnology), Jamia Millia Islamia University, New Delhi
25.	Lekshmi G	M.Sc. (Biotechnology - 3 rd Semester), Cochin University of Science and Technology, Cochin, Kerala
26.	Manisha Rani	M.Tech., Banasthali University, Rajasthan
27.	Monika Gupta	M.Sc.(Biotechnology - IV Semester), Institute of Management Studies, Ghaziabad, U.P.
28.	Mukesh Kumar	B.Tech. plus M.Tech, Amity University
29.	Neeraja C	M.Sc. (Biotechnology), University of Madras, Chennai
30.	Nehal Gurung	M.Sc. (Biotechnology), Amrita Vishwa Vidyapeetham, Kollam, Kerala
31.	Nishtha Rawat	M.Tech.(Biotechnology), Banasthali Vidyapith, Rajasthan
32.	Prithviraj C.S.	M.Sc. (Biotechnology), Amrita Vishwa Vidyapeetham, Kerala
33.	Priya Dulani	M.Tech. (Biotechnology), Madhav Institute of Technology, Bhopal, M.P.
34.	Priyanka S	M.Sc. (Plant Biotechnology), TERI University, New Delhi
35.	Radhika Mehtani	TERI University, New Delhi
36.	Rahul Ranjan	M.Tech. (Biotechnology), Haldia Institute of Technology, Haldia, West Bengal
37.	Ravi Chauhan	M.Sc. (Life Sciences), School of Life Sciences, Central University of Gujarat, Gujarat
38.	Rhythm Vanvari	5 th year Dual Degree in Biotechnology, Jaypee Institute of Information Technology, Noida, U.P.
39.	Ritika Bhardwaj	M.Tech., Banasthali University, Rajasthan
40.	Ritu Raheja	M.Sc. (Plant Biotechnology), TERI University, New Delhi
41.	Riya Joon	M.Sc. (Biotechnology), TERI University, New Delhi
42.	Sai Prashanti	M.Sc. (Biotechnology), Amity Institute of Biotechnology (AIB), Haryana
43.	Sandhya Yadav	M.Sc. (Plant Biotechnology - 4 th Semester), TERI University, New Delhi
44.	Sangeeta K	M.Sc. (Biotechnology - 2 nd Semester), Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Kollam, Kerala

45.	Shahre Aalam	M.Sc. (Bioinformatics), Jamia Millia Islamia, New Delhi
46.	Shardha Suman	M.Sc. (Biotechnology), Vinoba Bhave University, Jharkhand
47.	Shashwat	M.Sc. (Biotechnology), Jamia Hamdard, New Delhi
48.	Sheetal Kataria	M.Sc., HNB Garhwal University, Garhwal, Uttarakhand
49.	Shifali Khanna	Shaheed Udham Singh College of Engineering and Technology, Punjab
50.	Shreya Agrawal	Integrated 5 year Program, M.Sc. (Biotechnology), HNB Garhwal University, Garhwal, Uttarakhand
51.	Shrijal Kumar Sharma	M.Sc. (Microbiology), Pt. Ravi Shankar University, Chhatisgarh
52.	Shweta Malik	M.Sc., Amity University, Haryana
53.	Shweta Singh	M.Sc., Biotechnology, Manav Rachna International University, Haryana
54.	Sneha Raheja	M.Sc. (Microbiology - 3 rd Semester), Kanya Gurukul Mahavidyalaya, Uttarakhand
55.	Sumi Rana	M.Tech. (Biotechnology), Maulana Azad National Institute of Technology, Bhopal, M.P.
56.	Tanyya Khanna	M.Sc. (Biochemistry), Jamia Millia Islamia, New Delhi
57.	Vaishali Chaudhry	M.Tech. (Biotechnology), Maulana Azad National Institute of Technology, Bhopal, M.P.
58.	Varsha Gupta	M.Tech. (Biotechnology), Banasthali University, Rajasthan
59.	Vasundhara Sharma	M.Sc. (Plant Biotechnology), TERI University, New Delhi

Trainees at Under Graduate level

1.	Anisha Arora	IASc-INSa-NASi Summer Research Fellowship 2017, University of Delhi
2.	Anmol Kulshreshtha	B. Tech. (Biotechnology), Raja Balwant Singh Engineering Technical Campus, Agra, U.P.
3.	Ashutosh Aasdev	BSMS Programme (VI Semester), IISER, Bhopal
4.	Ashutosh Jha	B.Tech. (6 th Semester), ITM University, Gwalior
5.	Brindha Sugumar	B. Tech. (Bioinformatics - III Yr.), Tamil Nadu Agricultural University, Coimbatore
6.	Dinesh Kumar S	B. Tech. (Biotechnology), Tamil Nadu Agricultural University, Coimbatore
7.	G. Mathiyazhagan	B. Tech., TNAU (Joint Science Academies - SRF Programme - IAS)
8.	Harshil Ramachandran	IASc-INSa-NASi Summer Research Fellowship 2017, IISER, Bhopal

9.	Harshita Srinivasan	B. Tech. (II yr.), R.V. College of Engineering, Bengalour
10.	Ish Prakash	B.Sc. (II yr.), Banaras Hindu University, Varanasi
11.	M. Tamilarasi	B. Tech. (Biotechnology), Tamil Nadu Agricultural University, Coimbatore
12.	Muralitharan. S	B. Tech.(Biotechnology), Anna University, Chennai
13.	Neelima. C	B. Tech.(Biotechnology), Agricultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore
14.	R. Asma Fathima	B. Tech. (Biotechnology - 3 rd Year), Tamil Nadu Agricultural University, Coimbatore
15.	S. Priyadevi	B. Tech. (Bioinformatics), Tamil Nadu Agricultural University, Coimbatore
16.	Shefali Gupta	B. Tech.(III yr.), ITM University, Gwalior, M.P. (through Joint Science Academies, SRF Programme, 2017)
17.	Shruthi Hariharan	B. Tech. (Biotechnology), Tamil Nadu Agricultural University, Coimbatore
18.	Subnam Gerosse Dung Dung	B. Tech.(Biotechnology), Shaheed Udham Singh College of Engineering and Technology, Mohali, Punjab
19.	Surabhi Suresh	B. Tech. (Biotechnology), Kumaraguru College of Technology, Coimbatore, Tamil Nadu

Trainees at Scientist level

1.	Rex Arunraj	Assistant Professor, SRM University, Chennai (IASc-INSa-NASi Joint Science Academies Summer Research Fellow)
2.	Zahoor Ahmad	Assistant Professor, Sher-E-Kashmir University of Agricultural Sciences and Technology (SKUAST), Wadura Campus, Sopore J&K (IASc-INSa-NASi Joint Science Academies Summer Research Fellow)

Other activities at NIPGR

NIPGR Sub-DIC Facility (DISC)

The center has strong on-going programs in frontier areas of plant research such as genome mining, molecular mapping, stress biology and nutritional genomics for crop improvement, contributing towards development of improved varieties for high yields. With recent explosion of biomolecular data (genomes, transcriptomes, epigenomes, proteomes and other –omics data from diverse cells, tissues and organisms) from Next Generation Sequencing (NGS) and high throughput (HTP) proteomic experiments, generation and analysis of large datasets now constitutes a routine and significant portion of research at NIPGR. The BTISNET Coordinator's and co-coordinator's groups work in the area of RNA fusion, small RNAs and regulation of gene expression by Mediator complex apart from inducing and measuring simulated perturbations on complex bio-molecular networks. The Co-coordinator's group has made substantial advances in the area of intrinsically disordered Mediator subunits. More than 100 individual or collaborative projects are currently underway at NIPGR. Research grants are in the area of biotic and abiotic stress tolerance, plant growth and development, translational genomics and development of computational resources for GWAS to develop new tools for identification of genomic features that control productivity and other agriculturally important traits. The Sub-DIC is developing algorithms for molecular modelling, transcriptome data analysis as well as systems biology. These projects are diversely funded by the DBT, DST, INSA, CSIR and various international agencies.

Software and Databases Developed by Sub-DIC facility which are being used internationally:

- ❖ KIXBASE: A web resource for KIX domains in all forms of life
- ❖ TERZYME: A program for detection and analysis of plant TPS genes/proteins
- ❖ CGWR: Chickpea Genomic Web Resource (<http://nipgr.res.in/cgwr.php>)
- ❖ IGMAP: Genomic Mapping and Clustering of plant specific genes/gene families
- ❖ NEXCADE: An online webserver for Perturbation analysis of complex networks
- ❖ PLecDom: Plant lectin Domain Analysis (<http://nipgr.res.in/plecdom.html>)
- ❖ ESSOILDB: The Essential Oil Database (<http://nipgr.res.in/essoildb.html>)

Contribution/collaborations with North East Region (NER)

NIPGR is committed towards implementation of perception management plan in respect of citizens from North East India and strenuous efforts have been made in this direction. In order to widen the perspective regarding North Eastern states, the books on life, culture, religion, scenic beauty, tourism etc. of these states have been provided in the library of the Institute to open this information for all including researchers/students/staff/visitors of the library. Besides, the Institute has established collaboration with various Institutions/Universities of the North East India through various research projects.

In this connection, Insitute is implementing various sponsored projects with NER under various schemes of Government of India. At present, the following four projects are being implemented at the Institute:

- ❖ Towards identification, isolation and characterization of *Exobasidium vexens* strains and their pathogenic determinants/effectors, from blister blight infested tea-plantation of Assam and development of a future roadmap for effective management practices.
- ❖ Generation of transgenic rice in scented varieties of North Eastern Region for yield enhancement.
- ❖ Identification of genes contributing resistance to *Alternaria brassicae* from a nonhost plant and their characterization in Arabidopsis for durable crop protection against blight disease in *Brassica rapa*.
- ❖ Using foldscope to investigate reactive oxygen and nitric oxide signaling during plant pathogen interaction.

In addition, the Ph.D. Programme of the Institute plays major role in these efforts, wherein 20-25 students, from all over India including North Eastern States/abroad, are enrolled every year. These students act as a medium of amalgamation of culture, life style, etc. from these states. Further, the Institute is providing a platform to meet researchers from all over the world by arranging seminars/workshops/trainings etc, from time to time which results in exchange of culture, tradition & traits besides their research interests. The training programmes of the Institute also attracts students/researchers from North Eastern States, and during their tenure of three to twelve months, these researchers integrate their culture/traditions with students of other parts of India. The researchers from all parts of India including from North Eastern States also join the Institute in different capacities in various research projects being implemented in the Institute, for pursuing research in Plant Biotechnology. The foregoing activities are suitably highlighted on the website of NIPGR through a separate Web link for North East India.

In addition to this, creations/compositions by the staff/students of the Institute in the form of articles, poems, essays, etc. including those reflecting the life style, natural diversity etc. of North East Region are displayed on the 'Wall Magazine' of the Institute.

Grant-in-Aid Schemes

Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
1	Prof. Asis Datta	Biotechnological approaches to improve nutritional and post-harvest quality, drought tolerance and pathogen resistance in edible crops	DBT Govt. of India
2	Prof. Asis Datta	Regulatory dynamics of N-acetylglucosamine metabolism in model fungal pathogen, <i>Candida albicans</i>	CSIR Govt. of India
3	Dr. Niranjan Chakraborty	Proteomic analysis of dehydration-responsive secretome of grasspea (<i>Lathyrus sativus</i> L.)	CSIR Govt. of India
4	Dr. Niranjan Chakraborty	Functional analysis of candidate abiotic stress responsive genes "Challenge Programme on Chickpea Functional Genomics"	DBT Govt. of India
5	Dr. Niranjan Chakraborty	Comparative proteomics of chickpea plasma membrane and functional characterization of dehydration-responsive candidate genes	DST Govt. of India
6	Dr. Subhra Chakraborty	TATA Innovation Fellowship: Elucidating immune-related pathostress-responsive ECM reporter in legume and tuber crops by comparative proteomic analysis	DBT Govt. of India
7	Dr. Subhra Chakraborty	Understanding seed nutrient dynamics by system biology approach "Challenge Programme on Chickpea Functional Genomics"	DBT Govt. of India
8	Dr. Subhra Chakraborty	Elucidating stress-responsive pathways by comparative proteome mining in legume and cereals	DST Govt. of India
9	Dr. Subhra Chakraborty	Advanced Inter-Institutional Proteomics Facility-Advanced Research Platform for Crop Sciences	DBT Govt. of India
10	Dr. Debasis Chattopadhyay	TATA Innovation Fellowship: Association of transcript polymorphic simple sequence repeats, SNPs and microRNAs with agronomic traits in chickpea	DBT Govt. of India
11	Dr. Alok Krishna Sinha	National Bioscience Award: Characterization of versatile role of OsMPK3, rice mitogen activated protein Kinase	DBT Govt. of India
12	Dr. Alok Krishna Sinha	Generation of transgenic rice in scented varieties of North Eastern Region for yield enhancement	DBT Govt. of India
13	Dr. Alok Krishna Sinha	TATA Innovation Fellowship: Investigation of the role of mitogen activated protein kinase in rice yield	DBT Govt. of India

Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
14	Dr. Alok Krishna Sinha	Investigation of the molecular mechanism of MKK3-MPK6-MYC2 module in Arabidopsis seedling development	DST Govt. of India
15	Dr. Alok Krishna Sinha	Gene Functional Analysis Platform for Crops-Advanced Research Platform for Crop Sciences	DBT Govt. of India
16	Dr. Sabhyata Bhatia	Dissecting molecular mechanisms involved in chickpea seed development "Challenge Programme on Chickpea Functional Genomics"	DBT Govt. of India
17	Dr. Sabhyata Bhatia	Exploring transcriptome dynamics of chickpea development for candidate gene discovery and defining regulatory elements/modules "Challenge Programme on Chickpea Functional Genomics"	DBT Govt. of India
18	Dr. Praveen Verma	Identification and characterization of effectors from necrotrophic blight fungus <i>Ascochyta rabiei</i> and their targets from the chickpea	DBT Govt. of India
19	Dr. Praveen Verma	Towards identification, isolation and characterization of <i>Exobasidium vexans</i> strains and their pathogenic determinants/effectors, from blister blight infested tea-plantation of Assam and development of a future roadmap for effective management practices	DBT Govt. of India
20	Dr. Praveen Verma	Understanding genetic and molecular basis of <i>Ascochyta</i> blight resistance in chickpea "Challenge Programme on Chickpea Functional Genomics"	DBT Govt. of India
21	Dr. Manoj Prasad	Introgression of begomovirus resistance genes in tomato (<i>Solanum lycopersicum</i> L.) using MAS and Genomics approach	DBT Govt. of India
22	Dr. Manoj Prasad	Characterization of ubiquitin/26S proteasome pathway-related genes by VIGS in tomato during ToLCNDV infection	DBT Govt. of India
23	Dr. Manoj Prasad	National Bioscience Award: Genome-wide association study of yield contributing agronomic traits in foxtail millet (<i>Setaria italica</i> (L.) BEAUV)	DBT Govt. of India
24	Dr. Manoj Prasad	Identification and characterization of novel genes and alleles contributing for resistant starch traits in foxtail millet	DST Govt. of India
25	Dr. Manoj Prasad	Cambridge-India Network for Translational Research in Nitrogen	DBT Govt. of India
26	Dr. Manoj Prasad	Tata Innovation Fellowship - Molecular characterization of miRNA159 for delineating its role in tomato leaf curl virus disease tolerance in tomato	DBT Govt. of India

Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
27	Dr. Jitendra K. Thakur	DNA methylation and histone (H3K9Ac and H3K27me3) markings during seed development in two rice varieties with contrasting seed size/weight of Seed Biology	DBT Govt. of India
28	Dr. Jitendra K. Thakur	Functional Analysis of a Mediator Subunit Gene, Med17, in Rice and Arabidopsis	DBT Govt. of India
29	Dr. Jitendra K. Thakur	Understanding the Functional Significance of Med15, an Important Mediator Subunit, in Plants	DST Govt. of India
30	Dr. Jitendra K. Thakur (Scientist Incharge)	Establishment of Distributed Information Sub-Centre (DISC)	DBT Govt. of India
31	Dr. Gitanjali Yadav	Comparative analysis of plant organellar genes with their nuclear and free-living counterparts to understand genome organization, gene content and evolutionary patterns of origin and continuity	INSA Govt. of India
32	Dr. Gitanjali Yadav	Comparative transcriptomic and physiological analyses of cultivated and wild rice to decipher genetic basis of source-sink relationship during crop growth	DST Govt. of India
33	Dr. Gitanjali Yadav	Biological Invasion: Linking Phytochemical Dynamics of India's Most Aggressive Plant Invader to Genomic Adaptations	DST Govt. of India
34	Dr. Gitanjali Yadav	Characterization of 3-Hydroxy-3-methylglutaryl co-enzyme A reductase (HMGR) gene family in <i>Cicer arietinum</i> , and its role in abiotic stress	CSIR Govt. of India
35	Dr. Ashverya Laxmi	Functional characterization of sugar-and auxin-regulated DUF581 domain containing genes encoding expressed proteins of unknown functions in model plant system <i>Arabidopsis thaliana</i>	DBT Govt. of India
36	Dr. Ashverya Laxmi	To study the role of glucose and its interaction with hormones in controlling shade stress response in <i>Arabidopsis</i> and Tomato	DBT Govt. of India
37	Dr. Ashverya Laxmi	National Women Bio-Scientist Award- To study the interaction between glucose and salicylic acid signal transduction pathway in model plant <i>Arabidopsis thaliana</i>	DBT Govt. of India
38	Dr. Manoj Majee	Investigation the role of Protein L-Isoasparty1 Methyltransferase (PIMT) in plant stress adaptation	DBT Govt. of India

Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
39	Dr. Naveen C. Bisht	Tissue specific engineering of glucosinolate content and profiles in Indian oilseed mustard (<i>Brassica juncea</i>) for higher nutritional value and uncompromised defense response	DBT Govt. of India
40	Dr. Naveen C. Bisht	Investigating the roles of heterotrimeric G-protein components (G α and RGS) towards governing agronomical traits and abiotic stress tolerance in India oilseed mustard	DST Govt. of India
41	Dr. Naveen C. Bisht	Biofortification of branched chain amino acid-leucine in Brassica crops using CRISPR-Cas9 mediated genome editing	DBT Govt. of India
42	Dr. Naveen C. Bisht	To perform event selection under small scale open field growth condition and substantial equivalence test of the low glucosinolate brassica juncea transgenic lines	BIRAC Govt. of India
43	Dr. Jagadis Gupta Kapuganti	A Partnership to maximize nitrogen use efficiency in crops by understanding a NO-mediated modulatory switch	DST Govt. of India
44	Dr. Jagadis Gupta Kapuganti	Hypoxia- induced nitric oxide as a tool in protection of plants under flooding and pathogen attack	DBT Govt. of India
45	Dr. Jagadis Gupta Kapuganti	Ramalingaswami Fellowship	DBT Govt. of India
46	Dr. Jagadis Gupta Kapuganti	Functional elucidation of serine hydroxyl methyl transferase 6 and 7 during plant resistance against pathogen infection	DST Govt. of India
47	Dr. Jagadis Gupta Kapuganti	Alternative oxidase – a tool to increase biomass productivity under temperature and flooding stress	DST Govt. of India
48	Dr. Jagadis Gupta Kapuganti	Using foldscope to investigate reactive oxygen and nitric oxide signaling during plant pathogen interaction	DBT Govt. of India
49	Dr. Ananda K. Sarkar	Identification and Characterization of MicroRNAs Regulating Embryonic Shoot and Root Meristems	DBT Govt. of India
50	Dr. Ananda K. Sarkar	Molecular and biochemical dissection of SWP1 function, and its implication in plant development	DST Govt. of India
51	Dr. Saloni Mathur	Identification of heat responsive miRNAs in tomato (<i>Solanum lycopersicum</i>)	DST Govt. of India
52	Dr. Gopaljee Jha	Understanding the molecular intricacies of Rice-Rhizoctonia interactions	DBT Govt. of India
53	Dr. Gopaljee Jha	Simple, quick and onsite diagnostic kit for pathogen detection in asymptomatic stage	DBT Govt. of India

Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
54	Dr. Gopaljee Jha	Genome engineering to upscale the production of a broad spectrum anti-fungal protein Bg_9562 in <i>Escherichia Coli</i>	DBT Govt. of India
55	Dr. Senthil Kumar Muthappa	Ramalingaswami Fellowship	DBT Govt. of India
56	Dr. Senthil Kumar Muthappa	Identification of genes contributing resistance to <i>Alternaria brassicae</i> from a nonhost plant and their characterization in Arabidopsis for durable crop protection against blight disease in <i>Brassica rapa</i>	DBT Govt. of India
57	Dr. Senthil Kumar Muthappa	Drought and wilt disease causing pathogen interaction in tomato plants: dissecting molecular responses using VIGS	DBT Govt. of India
58	Dr. Jitender Giri	Manipulation of citrate biosynthesis and transport for improved low phosphate tolerance in rice	INSA Govt. of India
59	Dr. Jitender Giri	Investigating the role of phospholipid remodeling in low phosphate tolerance in rice	DST Govt. of India
60	Dr. Jitender Giri	Understanding the molecular regulation of root hair development in chickpea for crop improvement	DBT Govt. of India
61	Dr. Swarup K. Parida	Association and genetic mapping of loci for seed size/weight in chickpea of Seed Biology	DBT Govt. of India
62	Dr. Swarup K. Parida	Transcriptome and epigenome diversity analysis during seed development for discovery of molecular markers and gene regulatory mechanism in chickpea of Seed Biology	DBT Govt. of India
63	Dr. Pinky Agarwal	Transcriptome and small RNA diversity analysis of developing seed contrasting rice varieties of Seed Biology	DBT Govt. of India
64	Dr. Pinky Agarwal	Elucidation of seed storage protein encoding genes in rice and their promoter analysis	DST Govt. of India
65	Dr. Jyothilakshmi Vadassery	Calcium regulated plant defense strategies upon insect pest attack	MPGI Govt. of Germany
66	Dr. Jyothilakshmi Vadassery	Calcium regulated plant defense strategies upon insect pest attack	DST Govt. of India
67	Dr. Jyothilakshmi Vadassery	Identification of effector proteins from generalist herbivore <i>Spodoptera littura</i> and its targets in Arabidopsis	DST Govt. of India
68	Dr. Jyothilakshmi Vadassery	Understanding the role of calcium ion channels in plant defense against <i>Spodoptera litura</i> herbivore	DBT Govt. of India

Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
69	Dr. Jyothilakshmi Vadassery	Plant analytical Platform for Phytohormones and low abundant Molecules- Advanced Research Platform for Crop Sciences	DBT Govt. of India
70	Dr. Aashish Ranjan	Ramalingaswami Fellowship	DBT Govt. of India
71	Dr. Aashish Ranjan	Genetic understanding and manipulation of sucrose transport to increase the rice yield	DBT Govt. of India
72	Dr. Aashish Ranjan	Comprehensive characterization of PIF-family of transcription factors for abiotic stress signaling in crop plants	DST Govt. of India
73	Dr. Senjuti Sinharoy	Ramalingaswami Fellowship	DBT Govt. of India
74	Dr. Amarjeet Singh	Functional delineation of Drought and Salt Tolerance transcriptome factor targets for abiotic stress tolerance in rice	DST Govt. of India
75	Dr. Ranjita Sinha (Young Scientist Scheme)	Dissecting physiological and molecular response adapted by chickpea plants exposed to concurrent drought stress and bacterial pathogen infection by using transcript profiling and VIGS	DST Govt. of India
76	Dr. Prachi Pandey (Young Scientist Scheme)	Uncovering the unique stress tolerance mechanisms of contrasting chickpea genotypes against simultaneous drought stress and pathogen infection: An approach based on miRNA-induced gene silencing	DST Govt. of India
77	Dr. Priyanka Sood (Young Scientist Scheme)	Development of genetic transformation system in C4 Setaria models (<i>Setaria italica</i> and <i>S. viridis</i>)	DST Govt. of India
78	Dr. Chandra Bhan Yadav (Young Scientist Scheme)	Whole genome bisulfate sequencing for methylation analysis in two foxtail millet cultivars with contrasting response to abiotic stress	DST Govt. of India
79	Dr. Aarti Gupta (N-PDF Scheme)	Dissection of miRNA regulating unique tolerance mechanisms under concurrent drought and bacterial pathogen stress in Arabidopsis through MIR VIGS	DST Govt. of India
80	Dr. Aparajita Jha (N-PDF Scheme)	Understanding oxalate-responsive metabolic remodeling and enhancing nutritional quality and stress tolerance in groundnut by expressing oxalate decarboxylase	DST Govt. of India
81	Dr. Aakanksha Wany (N-PDF Scheme)	Functional analysis of transcriptional reprogramming during plant defense under varying nitrogen nutrition	DST Govt. of India

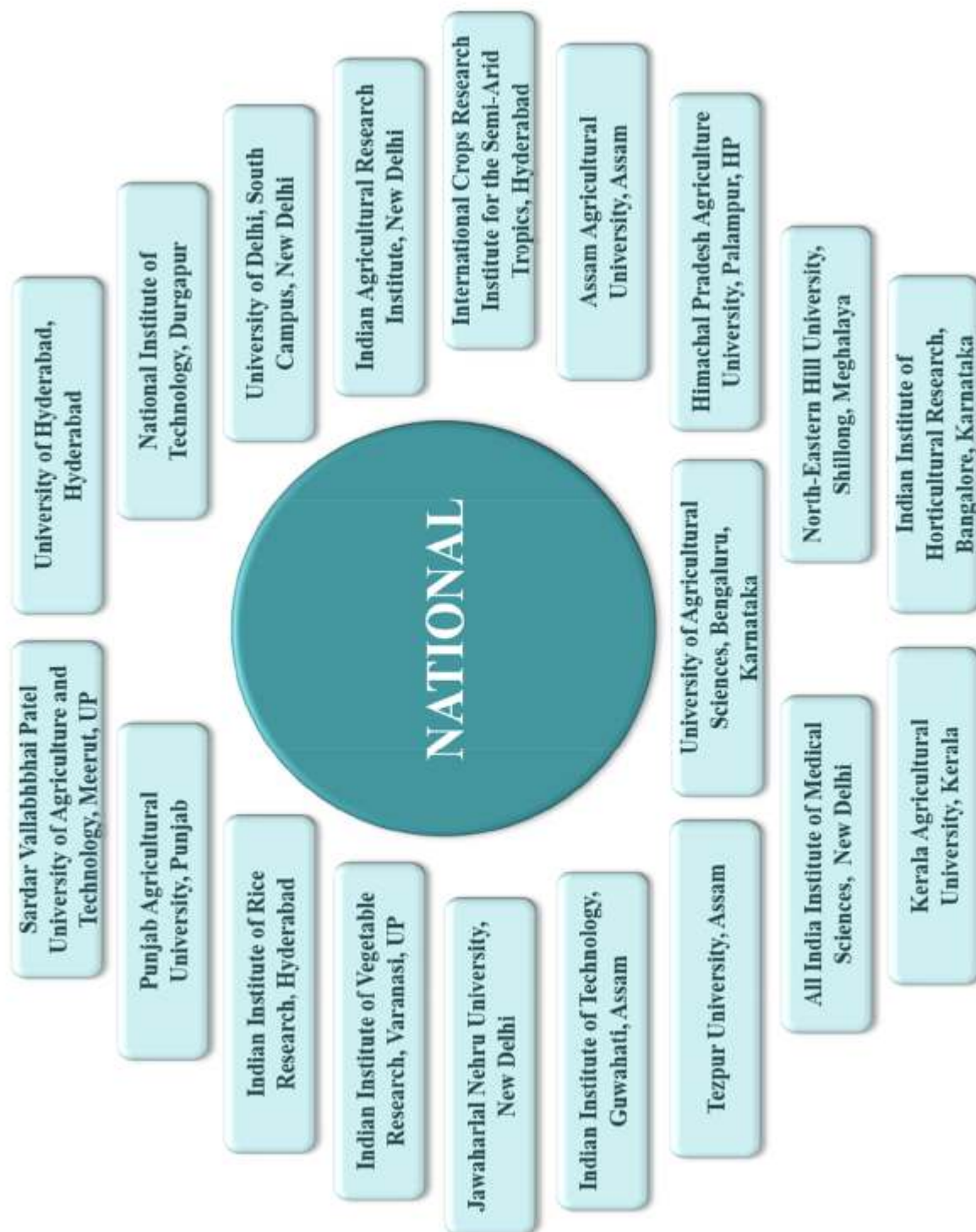
Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
82	Dr. Prabodh Kumar Bajpai (N-PDF Scheme)	Inducible expression of β -purothionin gene in <i>Brassica juncea</i> to develop resistance against <i>Alternaria blight</i> and <i>sclerotiorum</i>	DST Govt. of India
83	Dr. Bhoomika Varshney (N-PDF Scheme)	Study of dehydration response in chickpea (<i>Cicer arietinum</i> L.) using omics approaches	DST Govt. of India
84	Dr. Alok Kumar Gupta (N-PDF Scheme)	The role of alternative oxidase and NAD(P)H dehydrogenases in protection of plants during flooding and drought under differential nitrogen source	DST Govt. of India
85	Dr. Md Aminul Islam (N-PDF Scheme)	Identification of sequence variations for use in genetic mapping and QTLs analysis in Lentil	DST Govt. of India
86	Dr. Ashutosh Kumar (N-PDF Scheme)	Understanding the functional conservation and/or divergence of developmental/stress related miRNAs in selected crops	DST Govt. of India
87	Dr. Abhay Pratap Vishwakarma (N-PDF Scheme)	The role of uncoupling protein and alternative oxidase in protection of plants under hypoxia mediated by nitric oxide	DST Govt. of India
88	Dr. Mahesh Shivagouda Patil (N-PDF Scheme)	Identification and functional characterization of novel miRNA that regulate ABA modulated hormone signaling under combined drought stress and pathogen infection in <i>Arabidopsis</i>	DST Govt. of India
89	Dr. Anuradha Singh Yadav (N-PDF Scheme)	Comparative transcriptomic and physiological analyses of cultivated and wild rice to decipher genetic basis of source-sink relationship during crop growth	DST Govt. of India
90	Dr. Nisha Lakhotia (N-PDF Scheme)	Epigenetic regulation of miRNAs during development in <i>Arabidopsis thaliana</i>	DST Govt. of India
91	Dr. Arunava Mandal (N-PDF Scheme)	Molecular approach to study the regulation of U-Box domain containing AM gene in infected tomato plants	DST Govt. of India
92	Dr. Deepika Sharma (N-PDF Scheme)	Light-Dependent regulation of miRNA biogenesis through MAP kinase signaling cascade in <i>Arabidopsis</i>	DST Govt. of India
93	Dr. Jitender Singh (N-PDF Scheme)	To increase photosynthesis and yield in rice by improving sucrose translocation from the source (leaves) to sink tissues by enhancing the expression of SWEETS in a concerted manner using the CRISPR/Cas technology	DST Govt. of India

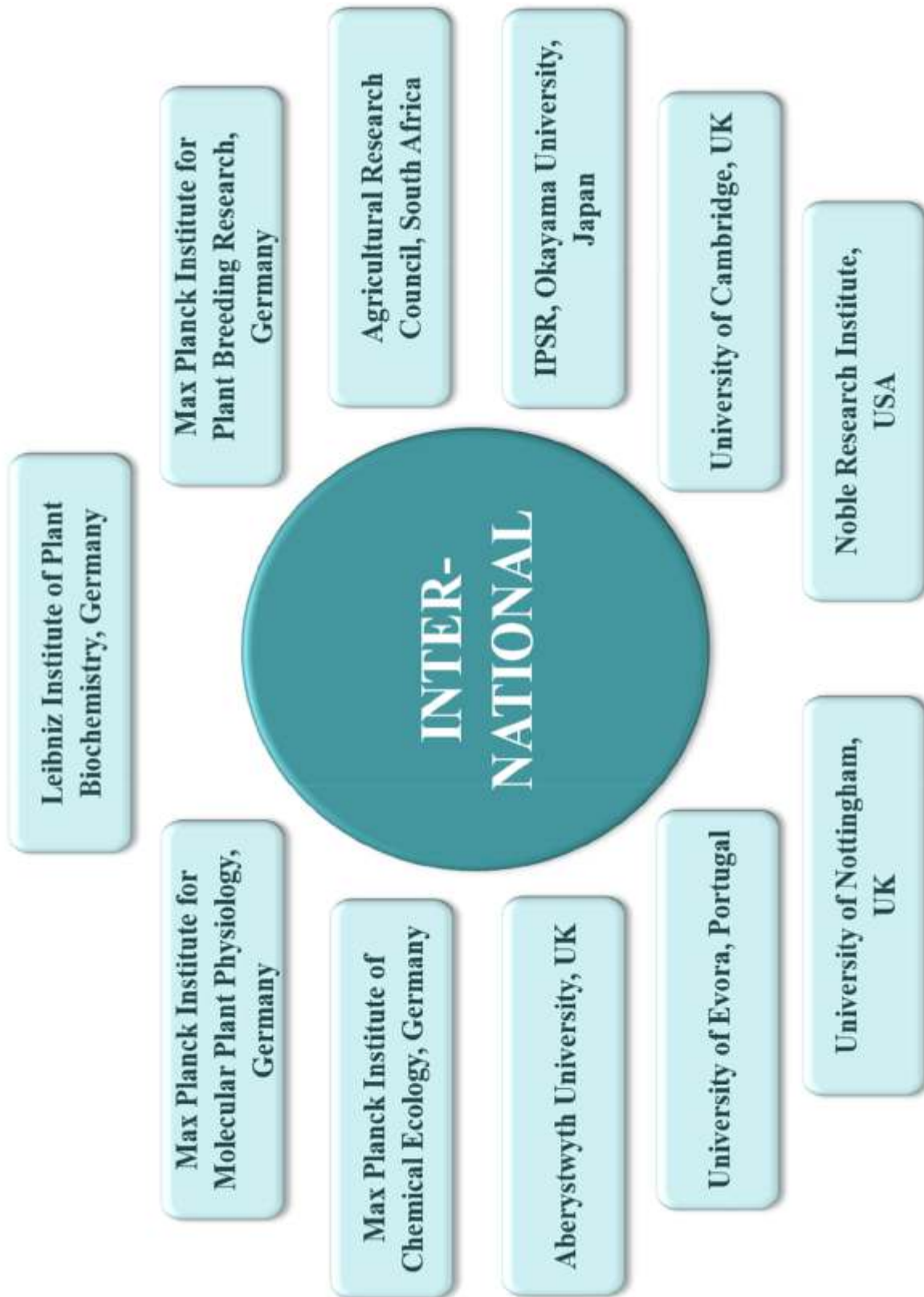
Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
94	Ms. Poonam Mishra (WOS-A Scheme)	Role of SUN1 (Sad/1UNC-84) domain protein from Chickpea and its orthologue from Arabidopsis in dehydration Stress	DST Govt. of India
95	Dr. Dipak Gayen (N-PDF Scheme)	Identification and functional characterization of dehydration-stress-responsive chloroplast proteins in rice (<i>Oryza sativa</i> L.)	DST Govt. of India
96	Dr. Ravi Kant (N-PDF Scheme)	Understanding the key pathogenicity determinants of tomato- <i>Rhizoctonia solani</i> interaction	DST Govt. of India
97	Dr. Sonika Pandey (N-PDF Scheme)	The role of Arabidopsis non-symbiotic haemoglobins (nHb1) in nitrate assimilation under stress	DST Govt. of India
98	Dr. Shaifali Pal (N-PDF Scheme)	Understanding the effect of temperature on secondary metabolite profile of tomato and the underlying genetic basis	DST Govt. of India
99	Dr. Anuj Dwivedi (N-PDF Scheme)	Identification of effector genes during biotrophic and necrotrophic phases of <i>Bipolaris sorokiniana</i> and wheat (<i>Triticum aestivum</i>) interaction	DST Govt. of India
100	Dr. Manish Kumar Patel (N-PDF Scheme)	Integrated analysis of metabolomics and transcriptomic to elucidate the flavonoid biosynthesis pathway in hadjod (<i>Cissus quadrangularis</i> L.)	DST Govt. of India
101	Dr. Shalini Mukherjee (N-PDF Scheme)	Functional characterization of selected OsSWEET gene(s) for role in root development and nutrient acquisition/stress	DST Govt. of India
102	Dr. Sudip Ghosh (N-PDF Scheme)	Comprehensive Organ-Specific Development Proteome Analysis of Chickpea (<i>Cicer arietinum</i>)	DST Govt. of India
103	Dr. Priyanka Dhakate (N-PDF Scheme)	Identification and characterization of non-coding RNAs (miRNAs and lncRNAs) governing seed development in chickpea	DST Govt. of India
104	Dr. Pankaj Kumar Verma (N-PDF Scheme)	Identification and characterization of novel transcription factors regulating phosphate homeostasis in rice	DST Govt. of India
105	Dr. Swati Verma (N-PDF Scheme)	Possible role of small RNAs in regulating gene expression during various stages of bud dormancy release in apple	DST Govt. of India
106	Dr. Ayan Das (N-PDF Scheme)	Development of <i>Tomato Leaf Curl New Delhi Virus</i> (ToLCNDV) resistance in tomato using Crispr/Cas9 technology	DST Govt. of India
107	Dr. Abhimanyu Jogawat (N-PDF Scheme)	Analysis of calcium regulated signaling during symbiotic interaction between <i>Arabidopsis thaliana</i> - <i>Piriformospora indica</i>	DST Govt. of India

Sl. No.	Investigator / Co-Investigator	Title of the Scheme	Funded by
108	Dr. Shweta (N-PDF Scheme)	Global analysis of tomato leaf curl disease induced alternative splicing in tomato	DST Govt. of India
109	Dr. Shubhendu Shekhar (N-PDF Scheme)	Proteomic characterization of tuber development and nutrient acquisition in sweet potato [<i>Ipomoea batatas</i> (L.) Lam]	DST Govt. of India
110	Dr. Sayanti Kundu (N-PDF Scheme)	Study of vascular wilt responsive proteome in chickpea-Fusarium interaction	DST Govt. of India
111	Dr. Sayanti Kundu (Bio-CARe Scheme)	Study of vascular wilt responsive proteome in chickpea- fusarium	DBT Govt. of India
112	Dr. Hema Ramanna (WOS-A Scheme)	Functional characterization of cell wall related genes in lignocellulosic biofuel crop model <i>Setaria viridis</i> by VIGS	DST Govt. of India



Collaborating/ Interacting Institutions







Committees of the Institute

Society

Dr. Harsh Vardhan

Hon'ble Minister of Science and Technology and Earth Sciences,
Ministry of Science and Technology and Earth Sciences, Government of India,
New Delhi (President)

Prof. Krishnaswamy VijayRaghavan

Secretary, Department of Biotechnology
Ministry of Science and Technology
Government of India, New Delhi

Prof. M. Jagadesh Kumar

Vice Chancellor
Jawaharlal Nehru University, New Delhi

Dr. T. Mohapatra

Director General, Indian Council for
Agricultural Research, New Delhi

Prof. M. Udaya Kumar

Professor
Department of Crop Physiology
University of Agricultural Sciences,
GKVK, Bengaluru (Karnataka)

Prof. Akshay K. Pradhan

Professor
Department of Genetics
University of Delhi South Campus
Benito Juarez Road
New Delhi

Dr. Madhu Dikshit

Professor In-charge
Department of Bioscience and
Bioengineering,
Indian Institute of Technology, Jodhpur

Dr. Binay Panda

Lab Head, Ganit Labs
Bio-IT Centre
Institute of Bioinformatics and Applied
Biotechnology, Biotech Park, Electronic City
Phase I, Bangalore

Dr. Sundeep Sarin

Scientist G
Department of Biotechnology
Ministry of Science and Technology
Government of India, New Delhi

Shri B. Anand

Financial Adviser
Department of Biotechnology,
Ministry of Science and Technology,
Government of India, New Delhi

Dr. Vidya S. Gupta

Chief Scientist: Biochemical Sciences
Division, National Chemical Laboratory
Pune (Maharashtra)

Vice-Chairman

University Grants Commission, New Delhi

Prof. Paramjit Khurana

Professor
Department of Plant Molecular Biology
University of Delhi South Campus
New Delhi

Dr. N. K. Singh

Project Director
ICAR-National Research Centre on Plant
Biotechnology
LBS Centre, Pusa Campus, New Delhi

Dr. Niranjana Chakraborty

Director, NIPGR
New Delhi (Member-Secretary)
(up to November 14, 2017)

Dr. Ramesh V. Sonti

Director, NIPGR
New Delhi (Member-Secretary)
(w.e.f. November 15, 2017)

Governing Body

Prof. Krishnaswamy VijayRaghavan

Secretary
Department of Biotechnology
Ministry of Science and Technology
Government of India, New Delhi
(Chairman)

Prof. M. Jagadesh Kumar

Vice Chancellor
Jawaharlal Nehru University
New Delhi

Dr. T. Mohapatra

Director General
Indian Council for Agricultural Research
New Delhi

Prof. M. Udaya Kumar

Professor
Department of Crop Physiology
University of Agricultural Sciences,
GKVK, Bengaluru (Karnataka)

Shri B. Anand

Financial Adviser
Department of Biotechnology
Ministry of Science and Technology
Government of India
New Delhi

Dr. Sundeep Sarin

Scientist 'G', Department of Biotechnology
Ministry of Science and Technology
Government of India, New Delhi

Dr. Madhu Dikshit

Professor In-charge
Department of Bioscience and
Bioengineering
Indian Institute of Technology, Jodhpur

Vice-Chairman

University Grants Commission
New Delhi

Prof. Paramjit Khurana

Professor
Department of Plant Molecular Biology
University of Delhi South Campus
New Delhi

Dr. Vidya S. Gupta

Chief Scientist: Biochemical Sciences
Division, National Chemical Laboratory
Pune (Maharashtra)

Dr. Niranjana Chakraborty

Director, NIPGR
New Delhi (Member-Secretary)
(up to November 14, 2017)

Dr. Ramesh V. Sonti

Director, NIPGR
New Delhi (Member-Secretary)
(w.e.f. November 15, 2017)

Finance Committee

Dr. Ramesh V. Sonti

Director, NIPGR
New Delhi (Chairman)
(w.e.f. November 15, 2017)

Dr. Niranjana Chakraborty

Director, NIPGR
New Delhi (Chairman)
(up to November 14, 2017)

Shri B. Anand

Financial Adviser
Department of Biotechnology
Ministry of Science and Technology
Government of India, New Delhi

Prof. Jitendra P. Khurana

Professor and Head; Coordinator (UGC-SAP)
Department of Plant Molecular Biology
University of Delhi, South Campus, New Delhi
(up to June 06, 2017)

Prof. Paramjit Khurana

Professor
Department of Plant Molecular Biology
University of Delhi South Campus, New Delhi
(w.e.f. June 07, 2017)

Shri N.S. Padmanabhan

Senior Manager
National Institute of Immunology, New Delhi
(up to June 06, 2017)

Prof. Rakesh Bhatnagar

School of Biotechnology
Jawaharlal Nehru University, New Delhi
(w.e.f. June 07, 2017)

Ms. Kusum Lata Sharma

Deputy Secretary
Department of Biotechnology
Ministry of Science and Technology
Government of India, New Delhi

Shri Sandeep Datta

Manager
NIPGR, New Delhi
(Non-Member Secretary)

Scientific Advisory Committee

Prof. Sudhir K. Sopory

International Centre for Genetic Engineering
and Biotechnology (ICGEB)
New Delhi (Chairman)

Prof. K. Veluthambi

UGC- BSR Faculty Fellow
Department of Plant Biotechnology
School of Biotechnology
Madurai Kamaraj University, Madurai
(Co-Chairman)

Prof. Jitendra P. Khurana

Professor and Head; Coordinator (UGC-SAP)
Department of Plant Molecular Biology
University of Delhi, South Campus,
New Delhi

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Department of Crop Physiology
University of Agricultural Sciences
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OSD (NAEP), Education Division,
Indian Council for Agricultural Research
(ICAR), KAB-II, Pusa Campus, New Delhi

Dr. Imran Siddiqi

Centre for Cellular and Molecular Biology
(CCMB), Hyderabad

Dr. R. S. Sangwan

Chief Executive Officer,
Center of Innovative and Applied Bio-
processing (CIAB), Mohali, Punjab

Dr. T. R. Sharma

Executive Director
National Agri-Food Biotechnology Institute
(NABI), Sector-81 (Knowledge City) P.O.
Manauli, S.A.S. Nagar, Mohali, Punjab

Dr. A. K. Singh

Professor and Head,
Genetics Division, IARI,
Pusa, New Delhi

Dr. (Mrs.) Usha Barwale

Maharashtra Hybrid Seeds Co. Ltd.
4th Floor, 78, Veer Nariman Road, Mumbai

Dr. Kuldeep Singh

Director
National Bureau of Plant Genetic Resources
(NBPGR), PUSA Campus, New Delhi

Dr. Usha VijayaRaghavan

Professor, Department of Microbiology and
Cell Biology, Indian Institute of Science
Bangalore

Dr. T. Madhan Mohan

Scientist 'G'
Department of Biotechnology
Ministry of Science and Technology
Govt. of India, New Delhi

Dr. Niranjan Chakraborty

Director, NIPGR
New Delhi (Member-Secretary)
(up to November 14, 2017)

Dr. Ramesh V. Sonti

Director, NIPGR
New Delhi (Member-Secretary)
(w.e.f. November 15, 2017)

Academic Committee

Dr. Ramesh V. Sonti

Director, NIPGR
New Delhi (Chairman)
(w.e.f. November 15, 2017)

Dr. Niranjana Chakraborty

Director, NIPGR
New Delhi (Chairman)
(up to November 14, 2017)

Prof. R. Madhubala

School of Life Sciences
Jawaharlal Nehru University, New Delhi
(Up to February 21, 2018)

Dr. A.K. Nandi

School of Life Sciences
Jawaharlal Nehru University, New Delhi
(Up to February 21, 2018)

Dr. K. C. Bansal

OSD (NAEP), Education Division,
Indian Council for Agricultural Research
(ICAR), KAB-II, Pusa Campus, New Delhi
(Up to February 21, 2018)

Dr. Arun Kumar Sharma

Associate Professor,
Department of Plant Molecular Biology,
University of Delhi, South Campus,
New Delhi
(Up to February 21, 2018)

Dr. Rupesh Chaturvedi

School of Biotechnology
Jawaharlal Nehru University, New Delhi
(w.e.f. February 22, 2018 till date)

Prof. Kasturi Mukhopadhyay

School of Environmental Sciences
Jawaharlal Nehru University, New Delhi
(w.e.f. February 22, 2018 till date)

Prof. M. K. Pandit

Department of Environmental Studies
University of Delhi, New Delhi
(w.e.f. February 22, 2018 till date)

Prof. Shailendra Goel

Department of Botany
University of Delhi, New Delhi
(w.e.f. February 22, 2018 till date)

Dr. Subhra Chakraborty

NIPGR, New Delhi
(Up to February 21, 2018)

Dr. Sabhyata Bhatia

NIPGR, New Delhi
(Up to February 21, 2018)

Dr. Praveen Verma

NIPGR, New Delhi
(w.e.f. February 22, 2018 till date)

Dr. Ashverya Laxmi

NIPGR, New Delhi
(w.e.f. February 22, 2018 till date)

Coordinator (Evaluation)

Jawaharlal Nehru University, New Delhi
(Special Invitee)
(Up to February 21, 2018)

Rector -II

Jawaharlal Nehru University, New Delhi
(w.e.f. February 22, 2018 till date)

Building Committee

Dr. Dinakar M. Salunke

Executive Director
ICGEB, New Delhi
(Chairman)

Prof. B. Jayaram

Department of Biochemistry
Indian Institute of Technology
New Delhi

Prof. Rakesh Bhatnagar

School of Biotechnology
Jawaharlal Nehru University
New Delhi

Shri B. Anand

Financial Adviser
Department of Biotechnology
Ministry of Science and Technology
Government of India
New Delhi

M/s. S. D. Sharma and Associates

Institute's Architect
Panchkula (Haryana)

Shri Sunil Kumar Sharma

Consultant Engineer
NIPGR, New Delhi

Shri Sandeep Datta

Manager
NIPGR, New Delhi
(Member-Secretary)

Institutional Biosafety Committee

Dr. Ramesh V. Sonti

Director, NIPGR
New Delhi (Chairman)

Prof. Alok Bhattacharya

School of Life Sciences
Jawaharlal Nehru University
New Delhi

Prof. Neera Bhalla Sareen

School of Life Sciences
Jawaharlal Nehru University
New Delhi

Dr. Subrata Sinha

National Brain Research Centre
Manesar, Haryana

Dr. Niranjana Chakraborty

Scientist
NIPGR, New Delhi

Dr. Ashvarya Laxmi

Scientist
NIPGR, New Delhi

Dr. Naveen Chandra Bisht

Scientist
NIPGR, New Delhi

Dr. A. K. Singh

Department of Genetics, IARI, New Delhi

Dr. Subhra Chakraborty

Scientist
NIPGR, New Delhi
(Member-Secretary)

Purchase Committee

Prof. Alok Bhattacharya

School of Life Sciences
Jawaharlal Nehru University
New Delhi

Prof. Rakesh Tyagi

Special Centre for Molecular Medicine
Jawaharlal Nehru University
New Delhi

Prof. Sanjay Kapoor

University of Delhi, South Campus
New Delhi

Dr. Alok K. Sinha

Scientist
NIPGR, New Delhi

Dr. Saloni Mathur

Scientist
NIPGR, New Delhi

Finance Officer

NIPGR, New Delhi

Purchase cum Stores Officer

NIPGR, New Delhi

Concerned Scientist(s)*

NIPGR, New Delhi

***Only for consultation at the time of Purchase Committee, if so required.**

Staff of the Institute

Scientific Staff

1. Dr. Ramesh V. Sonti, Director (w.e.f. November 15, 2017)
2. Prof. Asis Datta, Distinguished Emeritus Scientist
3. Dr. Niranjan Chakraborty, Professor of Eminence w.e.f. March 01, 2018 [Staff Scientist VII (up to February 28, 2018)]
4. Dr. Subhra Chakraborty, Staff Scientist VII
5. Dr. Debasis Chattopadhyay, Staff Scientist VII
6. Dr. Alok Krishna Sinha, Staff Scientist VI
7. Dr. Sabhyata Bhatia, Staff Scientist VI
8. Dr. Praveen Verma, Staff Scientist VI
9. Dr. Manoj Prasad, Staff Scientist VI
10. Dr. Jitendra Kumar Thakur, Staff Scientist V
11. Dr. Gitanjali Yadav, Staff Scientist IV
12. Dr. Ashverya Laxmi, Staff Scientist IV
13. Dr. Manoj Majee, Staff Scientist IV
14. Dr. Mukesh Jain, Staff Scientist IV*
15. Dr. Naveen Chandra Bisht, Staff Scientist IV
16. Dr. Jagadish Gupta Kapuganti, Staff Scientist IV
17. Dr. Ananda Kumar Sarkar, Staff Scientist IV
18. Dr. Gopaljee Jha, Staff Scientist IV
19. Dr. Senthil K. Muthappa, Staff Scientist IV
20. Dr. Saloni Mathur, Staff Scientist III
21. Dr. Jitender Giri, Staff Scientist III
22. Dr. Swarup K. Parida, Staff Scientist III
23. Dr. Pinky Agarwal, Staff Scientist III
24. Dr. Jyothilakshmi Vadassery, Staff Scientist III
25. Dr. Aashish Ranjan, Staff Scientist III
26. Dr. Senjuti Sinharoy, Staff Scientist III
27. Dr. Amarpal Singh, Staff Scientist III
28. Dr. Amarjeet Singh, Staff Scientist II
29. Dr. Shailesh Kumar, Staff Scientist II
30. Dr. Ashutosh Pandey, Staff Scientist II

* Resigned w.e.f. 19/10/2017 (A.N.)

Technical Staff

1. Ms Umamaheswari Rajamani, Technical Staff Gr. I
2. Dr. Sarjeet Singh Thakur, Technical Staff Gr. I
3. Shri Rajvir Singh Tomar, Technical Staff Gr. I
4. Shri Prem Singh Negi, Technical Staff Gr. I
5. Shri Sunil Kumar, Technical Staff Gr. I
6. Shri Sunil Kumar Avasthi, Technical Staff Gr. I
7. Dr. Santosh Kumar Gupta, Technical Staff Gr. I
8. Shri Arun Kumar, Technical Staff Gr. I
9. Dr. Bhavnesh Kumar, Technical Staff Gr. I
10. Shri Neeraj Nim, Programmer
11. Shri Shankar Acharya, Technical Staff Gr. II
12. Shri C. Ravi Shankar, Technical Staff Gr. II
13. Shri Shobharam Valmeeki, Technical Staff Gr. II
14. Shri Anand Singh Rana, Technical Staff Gr. II
15. Shri Ashok Kumar, Technical Staff Gr. II
16. Shri Rajendra, Technical Staff Gr. II
17. Shri Dinesh Mehta, Technical Staff Gr. II
18. Shri Ratneshwar Thakur, Technical Staff Gr. II
19. Shri Subhasish Mondal, Technical Assistant Gr. II
20. Shri Shailendra Kharwal, Technical Staff Gr. III
21. Shri Anand Dangi, Technical Staff Gr. III
22. Shri Lokesh Singh Chandolia, Technical Staff Gr. III*
23. Shri Brihaspati Narayan Shukla, Technician I
24. Shri Arabinda Das, Multi-Tasking Staff
25. Shri P. K. Mishra, Multi-Tasking Staff
26. Shri Tul Bahadur Thapa, Multi-Tasking Staff
27. Ms Neeta Maurya, Multi-Tasking Staff
28. Shri Mahender Singh, Multi-Tasking Staff

* Resigned w.e.f. October 31, 2017 (A.N.)

Administrative & Finance Staff

1. Shri Sandeep Datta, Manager
2. Dr. Vinod Kumar Sharma, Librarian/ Information Scientist
3. Shri Rajinder Raina, Purchase cum Stores Officer
4. Shri Sudhir Patwal, Administrative Officer
5. Shri Rakesh Mohan, Finance Officer
6. Shri Sunil Kumar Sharma, Consultant
7. Shri Kamal Kumar, PS to Director
8. Ms Vinita Sharma, Management Assistant
9. Ms Rajani Aswal, Management Assistant
10. Ms Sonali, Jr. Management Assistant
11. Shri Tapas Shit, Jr. Management Assistant
12. Shri Mitesh Raj Bhardwaj, Jr. Management Assistant
13. Shri Achint Gupta, Jr. Management Assistant
14. Shri Ravi Kant Singh, Jr. Engineer (Civil)
15. Shri Naveen Kumar Sudda, Jr. Engineer (Electrical)
16. Shri Devender Singh Bhandari, Assistant
17. Shri Om Prakash Sah, Junior Hindi Translator
18. Shri Ramesh Singh, Junior Assistant
19. Shri Hari Singh Negi, Junior Assistant
20. Shri Vipin Goyal, Hindi Typist
21. Shri Kuldeep Singh, Driver
22. Shri Manmohan Singh Rawat, Multi-Tasking Staff
23. Shri Bhargunath Manjhi, Multi-Tasking Staff

**Budget/
Auditor's Reports &
Audited Accounts**

Budget

The Financial resources of the National Institute of Plant Genome Research are the core grant provided by the Govt. of India, Department of Biotechnology, comprising of Grants for creation of Capital Assets, Grants-in-Aid Salaries and Grants-in-Aid General.

The Department of Biotechnology in their projections for financial year 2017-18 have allocated grant of ₹3800.00 lakhs including ₹400.00 lakhs for infrastructure facilities in respect of NIPGR.

The source and application of funds during the financial year 2017-18 in respect of Institute is as under:

Sources of Funds

The Govt. of India, Department of Biotechnology, released grants of ₹3800.00 lakhs during 2017-18 as detailed below:

Grants for Creation of Capital Assets	₹400.00 lakhs
Grants-in-Aid Salaries	₹850.00 lakhs
Grants-in-Aid General	₹2550.00 lakhs

Besides, the Institute has earned, an interest of ₹1,01,20,297/- on bank deposits of the Institute, refund of ₹2,30,78,734/- received from Construction Management Agency, M/s RITES Ltd. and miscellaneous receipts including user charges & overhead charges of ₹56,67,702/- during the year, apart from the opening balance of ₹3,58,38,957/- carried forward from previous year.

Application of Funds

(As per Utilization Certificate furnished to the Department of Biotechnology for the year 2017-18)

The total expenditure on research activities and infrastructure development during the year 2017-18 was ₹36,76,40,245/- including ₹3,54,62,299/- on infrastructure development.

OVER ALL EXPENDITURE AT A GLANCE	
<u>A-Grants for creation of Capital Assets</u>	Amount in ₹
1. Land & Building	--
2. Equipment	3,08,61,810
3. Furniture & Fixtures	13,34,001
4. Books/Scientific Journals	32,66,488
Total =	<u>3,54,62,299</u>
<u>B-Grants-in-Salaries</u>	
1. Manpower	9,82,04,327
Total =	<u>9,82,04,327</u>
<u>C-Grant-in-Aid General</u>	
1. Consumables	4,85,84,352
2. Contingencies	15,31,77,333
3. Training/Networking/Fellowship	1,66,86,477
4. Campus/Field Development	1,47,50,527
5. Travel	7,74,930
Total =	<u>23,39,73,619</u>
Closing balance at the end of the year 2017-18	<u>8,70,65,445</u>

Mehra & Tistani
Chartered Accountants
New Delhi

INDEPENDENT AUDITORS' REPORT

Report on the Financial Statements

We have audited the accompanying financial statements of NATIONAL INSTITUTE OF PLANT GENOME RESEARCH (formerly National Centre for Plant Genome Research) Aruna Asaf Ali Marg, J.N.U. Campus, New Delhi-110067, which comprise the Balance Sheet as at March 31, 2018 and the Income & Expenditure Account and the Receipts & Payments Account for the year ended on that date, and a summary of the significant accounting policies and other explanatory information.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Institute in accordance with the Accounting Standards issued by The Institute of Chartered Accountants of India and in accordance with the accounting principles generally accepted in India. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and the disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the institute's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the institute's internal control. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of the accounting estimates made by the Management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified audit opinion.



.....Contd/2

Basis for Qualified Opinion

Pending approval of final cost of construction by building committee, Phase-II of the building has not been capitalised. Also no depreciation has been charged on the same. In the absence of working/information, we are not in a position to ascertain and quantify the impact thereof on the financial statements. (Also refer point no. 6 (b) of schedule no. 24 to the financial statements).

Qualified Opinion

In our opinion and to the best of our information and according to the explanations given to us, *except for the possible effects of the matter described in the Basis for Qualified Opinion paragraph*, the financial statements give a true and fair view in conformity with the accounting principles generally accepted in India:

- a) In the case of the Balance Sheet, of the state of affairs of the Institute as at March 31, 2018;
- b) In the case of the Income and Expenditure Account, of the excess of Income over Expenditure during the year ended on that date and
- c) In the case of the Receipts and Payments Account, of the receipts and payments during the year ended on that date.

Place : New Delhi.
Date : 30th July, 2018



For Mehra & Sistani
Chartered Accountants


(Sanjiv Rai Mehra)
Partner

Membership No.080402
F.R.No.000409N

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
BALANCE SHEET AS ON 31st MARCH 2018

		AMOUNT IN ₹	
LIABILITIES	Schedule	Current Year	Previous Year
Corpus/Capital Fund	1	92,68,92,891	69,64,07,870
Reserves and Surplus	2	23,42,088	(1,79,55,225)
Earmarked/Endowment Funds	3	5,77,22,487	5,11,86,240
Secured Loans and Borrowings	4	-	-
Unsecured Loans and Borrowings	5	-	-
Deferred Credit Liabilities	6	-	-
Current Liabilities and Provisions	7	14,88,28,579	11,27,03,803
TOTAL		1,13,57,86,045	84,23,42,688
ASSETS			
<u>Fixed Assets</u>			
Tangible Assets	8	64,34,95,871	68,00,99,474
Intangible Assets	8	75,09,061	62,74,076
Investments-From Earmarked/Endowment Funds	9	5,55,63,096	5,10,48,442
Investments- Others	10	-	-
Current Assets, Loans, Advances etc.	11	42,92,18,017	10,49,20,696
Miscellaneous Expenditure (to the extent not written off or adjusted)		-	-
TOTAL		1,13,57,86,045	84,23,42,688
Significant Accounting Policies and notes on accounts	24		
Contingent Liabilities	-	-	-

Schedules 1 to 24 form the Integral part of Accounts

**AS PER OUR SEPARATE REPORT
OF EVEN DATE ATTACHED.**

**For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
Firm Registration No.: 000409N**

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr. RAMESH V. SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER
Membership No.080402

**PLACE: NEW DELHI
DATE: JULY 30, 2018**

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
INCOME & EXPENDITURE FOR THE YEAR ENDED 31st MARCH 2018

AMOUNT IN ₹

INCOME	Schedule	Current Year	Previous Year
Income from Sales/ Services	12	-	-
Grants / Subsidies (Recurring)	13	34,00,00,000	28,19,09,000
Fees/ Subscriptions	14	-	-
Income from Investments (Income on Investment from Earmarked/ Endowment Fund)	15	-	-
Income from Royalty, Publication etc.	16	-	4,000
Interest Earned	17	1,05,10,744	73,41,733
Other Income	18	60,50,246	45,32,098
Deferred Income- Fixed Assets	18	4,90,48,948	5,48,09,782
Increase / (decrease) in stock of Finished goods and works-in-progress	19	-	-
TOTAL (A)		40,56,09,938	34,85,96,613
EXPENDITURE			
Establishment Expenses	20	10,87,34,484	8,71,00,416
Other Administrative Expenses etc.	21	22,80,21,498	19,48,44,374
Prior Period Expenses	21	-	-
Expenditure on Grants, Subsidies etc.	22	-	-
Interest	23	-	-
Depreciation (Net Total at the year-end - corresponding to Schedule-8)		4,90,48,948	5,48,09,782
TOTAL (B)		38,58,04,930	33,67,54,572
Balance being excess of Income over Expenditure (A - B)		1,98,05,008	1,18,42,041
Balance being excess of Expenditure over Income (B - A)		-	-
Transfer to Special Reserve (Specify each)		-	-
Transfer to / from General Reserve		-	-
BALANCE BEING DEFICIT/ SURPLUS CARRIED TO RESERVES/ SURPLUS		1,98,05,008	1,18,42,041
Significant Accounting Policies and notes on accounts	24	-	-
Contingent Liabilities		-	-

Schedules 1 to 24 form the Integral part of Accounts

AS PER OUR SEPARATE REPORT
OF EVEN DATE ATTACHED.
For MEHRA & SISTANI
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PLACE: NEW DELHI
DATE: JULY 30, 2018

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE 1</u>	Current Year		Previous Year	
<u>CORPUS /CAPITAL FUND</u>				
Grants in Aid Non recurring				
Balance as at the beginning of the year	61,76,81,774		64,24,91,556	
Add: Contributions received during the year	6,30,80,110		3,00,00,000	
Less: Value of project equipments transferred	-		-	
Less : Reduced during the year	4,90,48,948		5,48,09,782	
		63,17,12,936		61,76,81,774
Fixed Assets Fund				
Balance as at the beginning of the year	7,76,70,136		9,83,23,153	
Add: Contributions received during the year	23,92,66,581		88,67,240	
Less: Contribution refunded during the year	5,045		42,59,831	
Add : Value of Project Equipment transferred back	-		-	
Less:Reduced during the year	2,28,07,677		2,52,60,426	
		29,41,23,995		7,76,70,136
Research Fund				
Balance as at the beginning of the year	8,62,696		8,62,696	
Add: Contributions received during the year	-		-	
		8,62,696		8,62,696
Students & Staff Welfare Fund				
Balance as at the beginning of the year	1,93,264		1,93,264	
Add: Contributions received during the year	-		-	
		1,93,264		1,93,264
<u>BALANCE AS AT THE YEAR- END</u>		92,68,92,891		69,64,07,870

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

SCHEDULE 2- RESERVES AND SURPLUS:	Current Year		Previous Year	
1.Capital Reserve:				
As per last Account	-		-	
Addition during the year	-		-	
Less: Deduction during the year	-		-	
		-		-
2.Revaluation Reserve:				
As per last Account	-		-	
Addition during the year	-		-	
Less: Deduction during the year	-		-	
		-		-
3.Special Reserves: 11 ISRFG FUND				
As per last Account	25,37,413		30,70,754	
Addition during the year	4,92,305		1,66,659	
Less: Deduction during the year	-		7,00,000	
		30,29,718		25,37,413
4. General Reserve:				
As per last Account	(2,04,92,638)		(3,23,34,679)	
Addition during the year	1,98,05,008		1,18,42,041	
Less: Deduction during the year	-		-	
Less: Short & Excess	-		-	
		(6,87,630)		(2,04,92,638)
TOTAL		23,42,088		(1,79,55,225)

For MEHRA & SISTANI
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE 3A</u>	Current Year		Previous Year	
Fund Debt Employees Provident Fund				
a) Opening balance of the fund	5,11,86,240		4,26,48,261	
b) Additions to the fund				
i) Donations/grant	-		-	
ii) Income from Investments/Savings Account	45,88,307		15,73,688	
iii) Regular Subscription/Refund of Advance received	63,99,895		56,30,800	
iv) Receipt towards Management share & Interest (Deficit only)	27,44,032		35,64,872	
Total (a+b)		6,49,18,474		5,34,17,621
c) Utilization/Expenditure towards objectives of fund	-		-	
i. <u>Capital Expenditure</u>				
* Fixed Assets	-		-	
* Others				
ii <u>Revenue Expenditure</u>				
Advance payment to Subscribers	3,00,000		15,00,000	
Part final withdrawal	-		-	
Final payment to Subscribers	68,95,987		7,31,381	
Total (c)		71,95,987		22,31,381
TOTAL - A (a+b-c) (Annexure-121)		5,77,22,487		5,11,86,240
AMOUNT IN ₹				
<u>SCHEDULE 3B</u>	Current Year		Previous Year	
11th International Symposium on Rice Functional Genomics				
a) Opening balance	-		-	
b) Funds received during the year	-		-	
c) Interest received	-		-	
Total (a+b)		-		-
a) Utilization/Expenditure towards Organization of Symposium	-		-	
b) Fund transferred to NIPGR Specific Fund A/c	-		-	
Total (c)		-		-
TOTAL-B (a+b-c)		-		-
TOTAL (3A+3B)		5,77,22,487		5,11,86,240

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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE 4-</u> <u>SECURED LOANS AND BORROWINGS:</u>	Current Year		Previous Year	
1. Central Government	-		-	
2. State Government (Specify)	-		-	
3. Financial Institutions				
a) Term Loans	-		-	
b) Interest accrued and due	-		-	
4. Banks:				
a) Term Loans	-		-	
-Interest accrued and due	-		-	
b) Other Loans (Specify)	-		-	
-Interest accrued and due	-		-	
5. Other Institutions and Agencies	-		-	
6. Debentures and Bonds	-		-	
		-		-
<u>TOTAL</u>		-		-

AMOUNT IN ₹

<u>SCHEDULE 5-</u> <u>UNSECURED LOANS AND BORROWINGS</u>	Current Year		Previous Year	
1. Central Government	-		-	
2. State Government (Specify)	-		-	
3. Financial Institutions	-		-	
4. Banks:				
a) Terms Loans	-		-	
b) Other Loans (Specify)	-		-	
5. Other Institutions and Agencies	-		-	
6. Debentures and Bonds	-		-	
7. Fixed Deposits	-		-	
8. Others (Specify)	-		-	
		-		-
<u>TOTAL</u>		-		-

AMOUNT IN ₹

<u>SCHEDULE-6</u> <u>DEFERRED CREDIT LIABILITIES</u>	Current Year		Previous Year	
a. Acceptances secured by hypothecation of capital equipment and other assets	-	-	-	-
b.Others	-	-	-	-
		-		-
<u>TOTAL</u>		-		-

For MEHRA & SISTANI
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

SCHEDULE 7-	Current Year		Previous Year	
CURRENT LAIBILITIES AND PROVISIONS				
A. CURRENT LIABILITIES				
1. Acceptances	-	-	-	-
2. Sundry Creditors				
a) For Goods	-	-	-	-
b) Others	-	-	-	-
3. Advances Received				
(i) Security deposits from contractors	68,06,778	1,05,01,021	57,45,728	68,06,778
Add: Variations during the year	36,94,243		10,61,050	
Less: Variations during the year	-		-	
(ii) Earnest Money deposit	-	-	-	-
Add: Variations during the year	-		-	
Less: Variations during the year	-		-	
(iii) Hostel Security from Students	4,61,400	4,48,900	4,55,900	4,61,400
Add: Variations during the year	-		5,500	
Less: Variations during the year	12,500		-	
4. Projects Grants/Fellowships		6,29,29,461		3,32,83,008
(i) CSIR	14,499		4,40,488	
(ii) DBT	4,56,59,877		1,87,22,861	
(iii) DST/ SERB	1,28,13,238		1,07,36,527	
(iv) NASI	2,36,676		3,05,139	
(v) INSA	110		1,07,143	
(vi) Fellowships	39,83,444		24,16,155	
(vii) PSI & AOAPO Conference	46,193		5,54,695	
(viii) Sattelite Symposium	1,75,424		-	
(Annexure-1 to 120)				
5. Interest accrued but not due on :		-		-
(a) Secured Loans /borrowings	-		-	
(b) Unsecured Loans/borrowings	-	-	-	-
6. Statutory Liabilities				
a) GST	15,750	82,184	-	9,744
b) Others (NPS)	66,434		9,744	
7. Other Current Liabilities:		1,53,99,313		2,03,05,928
Audit fees payable	47,200		40,000	
Outstanding Expenses payable	1,53,52,113		2,02,65,928	
8. Miscellaneous Liabilities:	66,864	66,864	1,75,662	1,75,662
TOTAL (A)		8,94,27,743		6,10,42,520
B. PROVISIONS				
1. For Taxation	-	5,94,00,836	-	5,16,61,283
2. Gratuity	2,82,06,115		2,31,07,477	
3. Superannuation/Pension	-		-	
4. Accumulated Leave Encashment	3,11,94,721		2,85,53,806	
5. Others (Specify)	-		-	
TOTAL (B)		5,94,00,836		5,16,61,283
TOTAL (A+B)		14,88,28,579		11,27,03,803

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre for Plant Genome Research)
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st March 2018

SCHEDULE 8- FIXED ASSETS

ASSETS	RATE	W.D.V.As on 01.04.17	Additions/Sales		Total As on 31.03.2018	Depreciation for the year	W.D.V. As on 31.03.18
			Upto 30.09.17	On or After 01.10.17			
1. Land							
a) Free Hold	0%	4,32,00,000	-	-	4,32,00,000	-	4,32,00,000
b) Lease hold		-	-	-	-	-	-
2.(A) Building							
a) On Freehold Land	10%	15,70,19,990	-	-	15,70,19,990	1,57,01,999	14,13,17,991
b) On Leasehold Land		-	-	-	-	-	-
c) Ownerships flats/premises	10%	-	-	-	-	-	-
d) Superstructures on Land not belonging to the entity	10%	5,29,926	-	-	5,29,926	52,993	4,76,933
2.(B) Building (Projects)	10%	3,11,46,799	-	-	3,11,46,799	31,14,680	2,80,32,119
3. Plant Machinery & Equipment							
a) Lab Equipments(Core)	40%	5,36,86,838	33,01,212	35,60,918	6,05,48,968	2,35,07,404	3,70,41,564
b) Lab Equipment (Project)	40%	3,87,81,825	61,52,799	85,95,736	5,35,30,360	1,96,92,997	3,38,37,363
4. Vehicles	15%	9,56,099	-	-	9,56,099	1,43,415	8,12,684
5. Furniture & Fixtures	10%	3,51,11,666	57,675	12,76,326	3,64,45,667	35,80,750	3,28,64,917
6. Office Equipments	15%	61,78,120	14,41,256	16,83,014	93,02,390	12,69,132	80,33,258
7. Computer / Peripherals	40%	12,52,365	29,22,508	42,24,278	83,99,151	25,14,805	58,84,346
8. Books & Scientific Journals	40%	7,07,795	63,304	5,000	7,76,075	3,09,430	4,66,645
9. E-Journals	25%	62,74,076	-	32,04,005	94,78,081	19,69,020	75,09,061
Total of Current Year		37,48,45,499	1,39,38,754	2,25,49,277	41,13,33,506	7,18,56,625	33,94,76,881
Capital work in Progress		31,15,28,051	-	-	31,15,28,051	-	31,15,28,051
Grand Total		68,63,73,550	1,39,38,754	2,25,49,277	72,28,61,557	7,18,56,625	65,10,04,932

For MEHRA & SISTANI
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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE -9</u>	Current Year		Previous Year	
<u>INVESTMENTS FROM FUND DEBT EMPLOYEES</u>				
<u>PROVIDENT FUND</u>				
1. In Government Securities	-		-	
2. Other approved Securities	-		-	
3. Shares	-		-	
4. Debentures and Bonds	-		-	
5. Subsidiaries and Joint Ventures	-		-	
6. Others-Financial Institutions	5,55,63,096		5,10,48,442	
		5,55,63,096		5,10,48,442
<u>TOTAL</u>		5,55,63,096		5,10,48,442

AMOUNT IN ₹

<u>SCHEDULE 10 -</u>	Current Year		Previous Year	
<u>INVESTMENTS - OTHERS</u>				
1. In Government Securities	-		-	
2. Other approved Securities	-		-	
3. Shares	-		-	
4. Debentures and Bonds	-		-	
5. Subsidiaries and Joint Ventures	-		-	
6. Others	-		-	
		-		-
<u>TOTAL</u>		-		-

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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE -11</u>	Current Year		Previous Year	
<u>CURRENT ASSETS, LOANS, ADVANCES ETC.</u>				
<u>A. CURRENT ASSETS:</u>				
<u>1. Inventories:</u>				
a) Stores and Spares	-		-	
b) Loose Tools	-		-	
c) Stock-in- trade				
Finished Goods	-		-	
Work-in-progress	-		-	
Consumables	18,00,995		19,74,389	
		18,00,995		19,74,389
<u>2. Sundry Debtors</u>				
a) Debts Outstanding for a period exceeding six months	-		-	
b) Others	-		-	
		-		-
<u>3. Cash balance in hand</u> (including cheques/drafts and imprest)	-		-	
		-		-
<u>4. Bank Balances:</u>				
<u>a) With Schedules Banks:</u>				
-On Current Accounts	-		-	
-On Deposit Accounts (includes margin money)	18,11,65,651		7,22,61,413	
-On Savings Account	23,91,26,123		2,54,44,787	
-NIPGR CPF Account	19,78,416		66,141	
-PSI & AOAPO Conference Current a/c	-		5,58,502	
- NIPGR FCRA Account	10,20,582		-	
		42,32,90,772		9,83,30,843
<u>b) With non- Scheduled Banks:</u>				
-On Current Accounts	-		-	
-On Deposit Accounts	-		-	
-On Savings Accounts	-		-	
		-		-
<u>5. Post Office- Savings Accounts</u>	-		-	
		-		-
<u>TOTAL (A)</u>		42,50,91,767		10,03,05,232

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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE- 11</u>	Current Year		Previous Year	
CURRENT ASSETS, LOANS, ADVANCES ETC.				
<u>B. LOANS,ADVANCES AND OTHER ASSETS:</u>				
<u>1. Loans:</u>				
a)Staff	-		-	
b)To other Entities engaged in activities/objectives similar to that of the entity	-		-	
<u>2. Advances and other amounts recoverable in cash or in kind for value to be received</u>				
a) On Capital Account (Equipment Adv.)	97,793		-	
b) On Capital Account (Equipment Adv.projects)	-		-	
c) Contingencies Advance	1,61,145		12,41,066	
d) Consumable Advance	3,29,381		74,090	
e) Advance for assets	-		-	
<u>f) Security</u>				
(i) Delhi Vidyut Board	24,000		24,000	
ii) Reliance Inds Ltd.	26,000		26,000	
iii) BSES (consumption deposit)	21,42,000		21,42,000	
iv) VSNL (Internet Lease)	70,000		70,000	
(v) Reliance Comm.Infrast.Ltd.(Telephone)	2,000		2,000	
vi) Queens Road Service Station	50,000		50,000	
vii) Tata Communications Ltd	94,688		94,688	
		29,97,007		37,23,844
<u>3. Income Accrued:</u>				
a) On Investments from Earmarked/Endowment Funds	-		-	
b) On Investments - Others	-		-	
c) On Loans and Advances	-		-	
d) Others -(M/s RITES Ltd)	7,43,260		7,43,260	
e) BSES	32,775		27,459	
(includes income due unrealised - ₹Nil)				
		7,76,035		7,70,719
<u>4. Claims Receivable</u>				
a) Refund from Income Tax	2,24,059		1,20,901	
b) Other Receivables	1,29,149	3,53,208	-	1,20,901
<u>5. Prepaid Expenses</u>	-		-	
		-		-
<u>TOTAL (B)</u>		41,26,250		46,15,464
<u>TOTAL (A+B)</u>		42,92,18,017		10,49,20,696

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr. RAMESH V. SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER
Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE- 12</u>	Current Year		Previous Year	
<u>INCOME FROM SALES/SERVICES</u>				
1. Income from Sales				
a) Sales of Finished Goods	-		-	
b) Sales of Raw Material	-		-	
		-		-
2. Income from Services				
a) Labour and Processing Charges	-		-	
b) Professional/Consultancy Services	-		-	
c) Agency Commission and Brokerage	-		-	
d) Maintenance Services (Equip./Property)	-		-	
e) Others (Specify)	-		-	
		-		-
<u>TOTAL</u>		-		-

AMOUNT IN ₹

<u>SCHEDULE -13</u>	Current Year		Previous Year	
<u>GRANTS/SUBSIDIES</u>				
(Irrevocable Grants & Subsidies Received)		-		
a) Central Government	34,00,00,000		28,19,09,000	
b) State Government(s)	-		-	
c) Government Agencies	-		-	
d) Institutions/Welfare Bodies	-		-	
e) International Organisation	-		-	
f) Others (Specify)	-		-	
		34,00,00,000		28,19,09,000
<u>TOTAL</u>		34,00,00,000		28,19,09,000

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
Firm Registration No.: 000409N

(RAKESH MOHAN)
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(Dr. RAMESH V. SONTI)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹				
<u>SCHEDULE 14 -</u>	Current Year		Previous Year	
<u>FEES/SUBSCRIPTIONS</u>				
a) Entrance Fees	-		-	
b) Annual Fees/Subscriptions	-		-	
c) Seminar/Programme Fees	-		-	
d) Consultancy Fees	-		-	
e) Others (Specify)	-		-	
		-		-
<u>TOTAL</u>		-		-

AMOUNT IN ₹				
<u>SCHEDULE 15-</u>	Current Year		Previous Year	
<u>INCOME FROM INVESTMENTS</u>				
(Income on Invest. from Earmarked/Endow. Funds transferred to Funds)				
1) Interest				
a) On Govt. Securitites	-		-	
b) Other Bonds/Debentures	-		-	
				-
2) Dividends				
a) On Shares	-		-	
b) On Mutual Fund Securities	-		-	
		-		-
3) Rents	-		-	
		-		-
4) Other (Specify)	-		-	
		-		-
<u>TOTAL</u>		-		-
TRANSFERRED TO EARMARKED/ENDOWMENT FUND				

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE 16</u>	Current Year		Previous Year	
INCOME FROM ROYALTY, PUBLICATION ETC.				
1) Income form Royalty	-		4,000.00	-
2) Income form Publications	-		-	-
3) Service Charges	-		-	-
		-		4,000
<u>TOTAL</u>		-		4,000

AMOUNT IN ₹

<u>SCHEDULE 17</u>	Current Year		Previous Year	
<u>INTEREST EARNED</u>				
1) On Term Deposits:				
a) With Scheduled Banks	79,26,414		13,77,757	
b) With Non- Scheduled Banks	-		-	
c) With Instituitons	-		-	
d) Others-(M/s.RITES Ltd.)	-		-	
		79,26,414		13,77,757
2) On Savings Accounts:				
a) With Scheduled Banks	25,47,913		59,33,466	
b) With Non- Scheduled Banks	-		-	
c) Post Office Savings Accounts	-		-	
d) Others	-	25,47,913	-	59,33,466
3) On Loans:				
a) Employees/Staff	-		-	
b) Others	-		-	
		-		-
4) Interest on Security Deposit				
a) BSES	36,417		30,510	-
		36,417		30,510
<u>TOTAL</u>		1,05,10,744		73,41,733
<u>Note</u> - Tax Deducted at source to be indicated				

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
Firm Registration No.: 000409N

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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE 18 - OTHER INCOME</u>	Current Year		Previous Year	
1) Profit on Sale/disposal of Assets:				
a) Owned assets	-		-	
b) Assets acquired out of grants or recd. free of cost	-		-	
2) Export Incentives realised	-		-	
3) Other Income				
a. Licence fee from Staff Quarters/Canteen	3,76,747		2,21,933	
b. Guest House Charges	3,98,000		3,23,200	
c. Hostel fee/Rent recovery/Admission Fee	8,71,466		5,61,810	
d. Miscellaneous Income(Tender Fees,RTI charges)	2,11,261		1,99,160	
e. Sample Analysis Charges	5,200		12,000	
f. Overhead Charges				
i) Funding Agencies	37,32,572		27,63,995	
ii) From DBT	4,55,000		4,50,000	
4) Deferred Income - Fixed Assets	4,90,48,948		5,48,09,782	
		5,50,99,194		5,93,41,880
<u>TOTAL</u>		5,50,99,194		5,93,41,880

AMOUNT IN ₹

<u>SCHEDULE 19 - INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS</u>	Current Year		Previous Year	
a) Closing Stock:				
- Finished Goods	-		-	
- Work-in-progress	-		-	
		-		-
b) Less: Opening Stock				
- Finished Goods	-		-	
- Work-in-progress	-		-	
		-		-
<u>NET INCREASE/(DECREASE) [a-b]</u>		-		-

AMOUNT IN ₹

<u>SCHEDULE 20 ESTABLISHMENT EXPENSES</u>	Current Year		Previous Year	
a) Salaries and Wages	9,53,85,552		6,65,57,829	
b) Allowances and Bonus	-		-	
c) Contribution to Provident Fund	27,44,032		35,64,872	
d) Contribution to Other Fund (Specify)	-		-	
e) Staff Welfare Expenses	-		-	
f) Expen.on Empl. Retirement and Terminal Benefits	1,06,04,900		1,69,77,715	
g) Others (Specify)	-		-	
		10,87,34,484		8,71,00,416
<u>TOTAL</u>		10,87,34,484		8,71,00,416

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC.		Current Year		Previous Year	
1 Consumables					
a. Chemicals ,Glasswares & Consumables	4,86,10,842			3,99,57,199	
b. Other Lab Items	-	4,86,10,842		-	3,99,57,199
2 Contingencies					
a. Publication of Papers	33,62,864			35,87,815	
b. Electricity and water charges	6,83,47,605			6,72,70,082	
c. Seminar,Conference & Workshops	4,91,799			3,62,507	
d. Maintenance of Equipment	3,17,17,411			2,32,30,575	
e. Generator Running Expenses	6,07,579			5,51,974	
f. Maintenance of AC Plant	41,93,640			46,97,998	
g. Maintenance of Building	21,84,545			13,02,936	
h. Housekeeping, Sanitation Services	59,76,138			34,47,020	
i. Vehicles Running and Maintenance					
i) Petrol ,Oil & Lubricants	3,40,638			1,78,826	
ii) Maintenance	1,84,429			59,297	
j. Postage, Telephone and Comm. Charges					
i) Postage & Telegrams	45,452			52,759	
ii) Telephone & Fax	3,96,138			4,01,391	
k. Printing and Stationary	13,33,014			13,44,825	
l. Security expenses	93,49,242			60,53,004	
m. Auditors Remuneration	47,200			40,000	
n. Committee Meeting Expenses	8,23,498			4,41,873	
o. Legal fees	2,11,707			79,678	
p. Journals and periodicals	1,97,769			1,89,709	
q. Advertisement and Publicity	4,23,012			5,65,654	
r. Miscellaneous Contingencies	26,60,827			16,75,760	
s. Contractual Manpower Services	86,96,091			63,27,502	
t. Rates & Taxes	31,08,742			27,12,504	
u. Professional Charges	28,14,876			35,09,039	
v. Assets written off	-			-	
w. Royalty paid	-			2,000	
x. Prior Period Expenses	-	14,75,14,216		-	12,80,84,728
3 Campus/Field Development	1,42,50,415	1,42,50,415		46,73,574	46,73,574
4a. Training affiliation and Others	30,21,561			13,72,347	
4b. NIPGR Fellowship	1,37,88,890	1,68,10,451		2,03,46,165	2,17,18,512
5 Travelling and Conveyance Expenses					
i) Travelling	7,43,894			4,08,203	
ii) Conveyance & Transport	91,680	8,35,574		2,158	4,10,361
TOTAL		22,80,21,498			19,48,44,374

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr. RAMESH V. SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31st MARCH 2018

AMOUNT IN ₹

<u>SCHEDULE 22</u>	Current Year		Previous Year	
EXPENDITURE ON GRANTS,SUBSIDIES ETC.				
a) Grants given to Institutions/ Organisations	-		-	
b) Subsidies given to Institutions / Organisations	-		-	
		-		-
<u>TOTAL</u>		-		-

AMOUNT IN ₹

<u>SCHEDULE 23 - INTEREST</u>	Current Year		Previous Year	
a) On Fixed Loans	-		-	
b) On Other Loans (including Bank Charges)	-		-	
c) Others(specify)	-		-	
		-		-
<u>TOTAL</u>		-		-

For MEHRA & SISTANI
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre for Plant Genome Research)

**ACCOUNTING POLICIES AND NOTES FORMING PARTS OF THE BALANCE SHEET AS AT
AND INCOME& EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31st MARCH, 2018**

1. The annual accounts have been prepared in the revised format of accrual system of accounting, except for Interest Income, Extramural Funds and Contributory Provident Fund, which are accounted for on cash basis.
2. (a) Recurring Grants have been recognised in the Income & Expenditure account and Non-Recurring Grants have been shown as addition to grants in aid in the year of receipts.
- (b) Grants for core funds relatable to depreciable fixed assets are treated as deferred income and recognised in the Income and Expenditure Account on a systematic and rational basis over the useful life of such assets i.e. such grants are allocated to income over the periods and in the proportions in which depreciation is charged. During the year income recognised in respect of such Grants amounts to ₹ 4,90,48,948/-.
3. (a) The depreciation has been provided w.e.f. the date of purchase of fixed assets as per the rates prescribed by Income Tax Rules, 1961. The depreciation on lab equipment has been charged at 40% p.a at par with depreciation rates prescribed for medical equipments under section 32(1)(i) and Appendix I under Rule 5(1). The rate of depreciation in respect of Computers & Pheriphirals and Books & Journlas has been revised to 40% as per the notification No.103/2016/F.No.370142/29/2016-TPL dated November 7,2017.
- (b) Full depreciation is charged during the year of acquisition in case the assets is aquired in the first half and 50% of rate of depreciation for assets acquired during the second half of the financial year.No depreciation is provided during the year of disposal of assets.
- (c) Depreciation of ₹ 2,28,07,677/- has been provided during the year and directly debited to fixed assets fund.These assets were created out of the Non-Recurring Grants of the projects.
4. Fixed assets have been created with grants received from the Department of Bio-Technology. The condition of these grants, inter alia, stipulates that assets will be the property of Government, who will be free to sell or otherwise dispose off the same.The Govt. of India has the discretion to gift the assets to the Institute if it considers appropriate, but no such gifts have been made so far. Therefore, in effect the ownership of the assets lies with Govt. of India and not with the Institute.

5. All purchases of chemicals, glassware, consumables and stationery have been charged to consumption at the time of purchase. However at the end of the accounting year the value of the quantities in stock is reflected as Closing Inventory. The closing stock has been worked out on cost basis and shown in the respective schedule. The closing stock of these items amounting to ₹ 18,00,995/- was available at the end of the year.
6. (a) Construction Cost and Overheads incidental to construction of building of institute are added to the capital work in progress to be capitalized along with the building.
- (b) The cost of phase-II of the building of the Institute will be capitalized after vetting of final cost by the Building Committee and approval by the Governing Body as per Institutional norms. Pending capitalisation, no depreciation has been charged on the same during the year though the same has been put to use.
7. The Institute has a policy of allocating the overheads and transfer of expenditure from Institute to different projects at the end of year on proportionate basis after taking into account the amount of maximum permissible limits for overheads sanctioned by the funding agency in each project. During the year institute has allocated ₹ 41,87,572/- as overheads which includes ₹ 37,32,572/- from different agencies & ₹ 4,55,000/- from DBT projects.
8. The Institute has made a provision of ₹ 5,94,00,836/- towards the terminal benefits payable to staff, as per Actuarial Valuation.
9. Interest earned on deposits with the banks is treated as income as per instruction contained in Uniform Formats of accounts for Autonomous Bodies. However, permission for the same is obtained from the DBT invariably on year to year basis.
10. As per approval of the competent authority a reserve fund with name 11th ISRFG Fund has been created and to be used for the purposes specified in this regard.
11. The Institute has received foreign contribution of ₹13,34,140/- without obtaining prior registration u/s 11(1) & (2) section 16 of the Foreign Contribution (Regulation) Act, 2010. The Institute has already applied for registration under the said act to receive all future contributions.
11. Previous year figures have been re-grouped/re-arranged wherever considered necessary.

For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
 Firm Registration No.: 000409N

(RAKESH MOHAN)
 FINANCE OFFICER

(SANDEEP DATTA)
 MANAGER

(Dr RAMESH V.SONTI)
 DIRECTOR

(SANJIV RAI MEHRA)
 PARTNER

Membership No.080402

Place: New Delhi
 Date: July 30, 2018

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
RECEIPTS & PAYMENTS FOR THE YEAR ENDED 31st MARCH 2018

AMOUNT IN ₹

RECEIPTS	Current Year		Previous Year	
Particulars				
Opening Balance				
In Saving Account/Short Term deposits	9,82,64,702		10,22,66,081	
Reserve & Surplus	4,92,305		1,66,659	
Grants Received from Deptt of Biotechnology				
Non recurring	4,00,00,000		3,00,00,000	
Recurring	34,00,00,000		28,19,09,000	
Refund by M/s RITES Ltd	2,30,78,734		-	
Projects & Fellowships				
Sponsored Projects (Including all receipts & recoverable amounts)	38,53,29,185		10,19,48,803	
Sponsored Fellowship	2,33,19,303		3,34,63,916	
PSI & AOAPO Conference 2016	1,99,249		86,31,132	
Sponsored Seminar/ Conference/ Conclave	1,08,45,636		-	
Interest Earned	1,05,37,881		73,11,223	
Security Deposit from Contractors	68,35,006		41,39,813	
New pension Scheme	23,473		4,872	
Remittances	5,91,116		9,01,392	
Other Liabilities	-		1,08,829	
Refund of Consumable advance	12,400		6,870	
Refund of Equipment advance	1,35,833		1,72,851	
Refund of Contingency advance	2,26,841		61,110	
Hostel/Mess Security	1,03,500		82,000	
Other Income	18,44,877		10,20,170	
TOTAL		94,18,40,041		57,21,94,721

AS PER OUR SEPARATE REPORT
OF EVEN DATE ATTACHED.
For MEHRA & SISTANI
CHARTERED ACCOUNTANTS

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr. RAMESH V. SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

PLACE: NEW DELHI
DATE: JULY 30, 2018

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre For Plant Genome Research)
RECEIPTS & PAYMENTS FOR THE YEAR ENDED 31st MARCH 2018

AMOUNT IN ₹

PAYMENTS	Current Year		Previous Year	
Particulars				
Building under Construction	-		4,59,519	
Lab Equipment	68,62,130		2,60,95,821	
Office Equipment	31,22,894		6,74,511	
Computer/Peripherals	71,46,786		14,08,160	
Furniture & Fixture	13,34,001		3,99,581	
Books & Scientific Journals	32,72,309		34,68,376	
Vehicle	-		-	
Manpower				
Salaries and Wages	9,62,26,824		6,69,49,006	
Contribution to Provident fund	27,44,032		35,64,872	
Consumables				
a) Chemicals ,Glasswares & Consumables	4,77,55,592		4,92,09,206	
b) Other Lab Items	-		-	
Contingencies				
a) Publication of Papers	33,38,083		37,99,743	
b) Electricity and water charges	7,28,91,287		6,73,63,242	
c) Seminar,Conference & Workshops	4,71,374		3,21,846	
d) Maintenance of Equipment	2,98,53,394		2,82,30,862	
e) Maintenance of AC Plant	47,89,775		47,24,166	
f) Maintenance of Building	22,61,312		14,81,687	
g) Vehicles Running and Maintenance				
(i) Petrol ,Oil & Lubricants	3,12,247		1,98,446	
(ii) Maintenance	98,254		45,115	
h) Postage, Telephone and Comm. Charges				
(i) Postage & Telegrams	36,567		51,023	
(ii) Telephone & Fax	4,10,913		3,70,655	
i) Printing and Stationary	13,01,481		14,37,324	
j) Security expenses	1,08,53,992		61,34,532	
k) Auditors Remuneration	47,200		23,000	
l) Committee Meeting Expenses	6,53,023		4,37,675	
m) Legal fees	1,96,707		79,678	
n) Journals and Periodicals	2,11,073		1,67,488	
o) Advertisement and Publicity	4,25,080		4,61,307	
p) Mise.contingencies	25,04,475		16,93,132	
q)Houskeeping,sanitation & Contract services	1,51,81,420		87,71,905	
r) Professional Charges	37,90,624		62,60,110	
s)Rates & Taxes	31,08,742		27,12,504	
t)Royalty paid	-		2,000	
u)Generator Running Expenses	6,07,579		5,51,974	
Campus/ Field Development	1,47,37,803		38,57,712	
Training affiliation and Others	30,21,561		13,72,347	
NIPGR Fellowships	1,36,64,916		2,17,76,668	
Travelling and Conveyance Expenses				
(i) Travelling	7,33,017		4,08,203	
(ii) Conveyance & Transport	42,286		2,082	

Continued

<u>Others</u>				
a) Contingency Advance	4,60,738		4,62,974	
b) Consumable Advance	10,96,451		2,64,360	
c) Equipment advance	2,33,626		2,88,332	
d) Security Deposit paid	31,40,763		30,68,763	
e) Refund of Earnest Money deposit	-		-	
f) Hostel/Mess Security	1,16,000		76,500	
g) Remittances	6,57,555		8,34,559	
h) Reserve & Surplus	-		7,00,000	
Sponsored Projects	12,68,04,589		10,19,44,395	
Refund to Agencies(DBT/DST)	41,33,894		97,48,983	
Sponsored Fellowship	2,06,27,014		3,34,53,045	
PSI & AOAPO Conference 2016	7,07,751		81,22,630	
Sponsored Seminar/ Conference/ Conclave	84,98,192			
Miscellaneous Liabilities	42,359			
<u>Closing Balance</u>				
In Saving Bank Account/Short term Deposit	42,13,12,356		9,82,64,702	
TOTAL		94,18,40,041		57,21,94,721

-
**AS PER OUR SEPARATE REPORT
OF EVEN DATE ATTACHED.
For MEHRA & SISTANI
CHARTERED ACCOUNTANTS
Firm Registration No.: 000409N**

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr. RAMESH V. SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER
Membership No.080402

**PLACE: NEW DELHI
DATE: JULY 30, 2018**

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

CSIR PROJECTR/P entitled Proteomic analysis of dehydration-responsive SECRETOME OF GRASSPEA (*Lathyrus sativus L.*)

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	43,013		34,151	
<u>Grant- In- Aid for</u>				
i) Staff	5,96,000		6,09,503	
ii) Contingencies	4,73,736		4,45,095	
iii) Overheads	-			
TOTAL		11,12,749		10,88,749

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Staff	6,24,000		5,72,000	
ii) Contingencies	4,74,250		4,73,736	
iii) Overheads	-		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	14,499		43,013	
TOTAL		11,12,749		10,88,749

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre for Plant Genome Research)
NEW DELHI

CSIR PROJECT

R/P entitled Regulatory Dynamics of N-acetylglucosamine metabolism in Model fungal Pathogen,Vandida albicans

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	3,97,475		2,16,261	
<u>Grant- In- Aid for</u>				
i) Staff	-		-	
ii) Contingencies	-		1,83,739	
iii) Overheads	-		-	
TOTAL		3,97,475		4,00,000

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Staff	-		-	
ii) Contingencies	1,85,109		2,525	
iii) Overheads	-		-	
<u>Refund to Agency</u>				
Recurring	2,12,366			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		3,97,475	
TOTAL		3,97,475		4,00,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DBT PROJECT

R/P entitled Nutritional Genomics: Value Added transgenic crops for better nutrition & fungal resistance

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	(55,569)		(55,569)	
<u>Grant- In- Aid for</u>				
i) Manpower	-		-	
ii) Consumable	-		-	
iii) Travel	-		-	
iv) Contingencies	-		-	
TOTAL		(55,569)		(55,569)

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	-		-	
ii) Consumable	-		-	
iii) Travel	-		-	
iv) Contingencies	-		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	(55,569)		(55,569)	
TOTAL		(55,569)		(55,569)

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre for Plant Genome Research)
NEW DELHI

DBT PROJECT

R/P entitled Isolation and characterization of early-responsive chickpea genes involved in defense/resistance in response to Ascochyta infection

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	(30,036)		(30,036)	
Equipment	(48,474)		(48,474)	
<u>Grant- In- Aid for</u>				
i) Equipment	-		-	
ii) Manpower	-		-	
iii) Consumable	-		-	
iv) Travel	-		-	
v) Contingencies	-		-	
TOTAL		(78,510)		(78,510)

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		-	
ii) Manpower	-		-	
iii) Consumable	-		-	
iv) Travel	-		-	
v) Contingencies	-		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	(30,036)		(30,036)	
Equipment	(48,474)		(48,474)	
TOTAL		(78,510)		(78,510)

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER
Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DBT PROJECT****R/P entitled Establishment of a Distributed Information Sub-Centre at National Institute for Plant Genome Research, New Delhi.****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	3,78,756		7,58,386	
Equipment	1,41,486		7,00,976	
<u>Grant- In- Aid for</u>				
i) Equipment	-		-	
ii) Manpower	9,91,000		3,63,000	
iii)Contingencies	1,32,200		1,16,000	
iv) Travel	24,000		48,000	
v) Other Cost	1,38,000		13,000	
Other Receipts	-		41,000	
TOTAL		18,05,442		20,40,362

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	1,01,760		5,59,490	
ii) Manpower	8,05,429		7,99,116	
iii)Contingencies	1,71,609		91,189	
iv) Travel	64,632		23,841	
v) Other Cost	2,80,432		46,484	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	3,41,854		3,78,756	
Equipment	39,726		1,41,486	
TOTAL		18,05,442		20,40,362

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
MANAGER**(Dr.RAMESH V.SONTI)**
DIRECTOR**(SANJIV RAI MEHRA)**
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DBT PROJECT

R/P entitled Automated DNA sequencing and controlled environment plant growth chamber facility

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Savings A/C				
Equipment	(3,44,639)		(3,44,639)	
			-	
<u>Grant- In- Aid for</u>				
i) Equipment	-		-	
TOTAL		(3,44,639)		(3,44,639)

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Equipment	(3,44,639)		(3,44,639)	
TOTAL		(3,44,639)		(3,44,639)

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre for Plant Genome Research)
NEW DELHI

DBT PROJECT

R/P entitled DNA barcoding of *Dalbergia species*

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	45,059		45,059	
Equipment	(1,91,459)		(1,91,459)	
<u>Grant- In- Aid for</u>				
i) Equipment				
ii) Manpower				
iii) Consumable				
iv) Travel				
v)Contingencies				
TOTAL		(1,46,400)		(1,46,400)

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	-		-	
iii) Consumable	-		-	
iv) Travel	-		-	
v)Contingencies	-		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	45,059		45,059	
Equipment	(1,91,459)		(1,91,459)	
TOTAL		(1,46,400)		(1,46,400)

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DBT PROJECT****R/P entitled Tissue Specific Engineering of Glucosinolate Content and Profiles in Indian Oilseed Mustard (Brassica Juncea) for Higher Nutritional Value and Uncompromised Defense Response****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	8,79,124		5,15,312	
Equipment	-		11,757	
<u>Grant- In- Aid for</u>				
i) Equipment			-11,757	
ii) Manpower	-		1,90,000	
iii) Consumable				
iv) Travel	-		6,11,757	
v) Contingencies				
vi) Cash Award	-		1,00,000	
TOTAL		8,79,124		14,17,069

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		-	
ii) Manpower	2,54,095		1,19,516	
iii) Consumable				
iv) Travel	4,66,619		4,18,429	
v) Contingencies				
vi) Cash Award	1,00,000		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	58,410		8,79,124	
Equipment	-		-	
TOTAL		8,79,124		14,17,069

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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NEW DELHI

DBT PROJECT

R/P entitled Biotechnological approaches to improve nutritional and post-harvest quality, drought tolerance and pathogen resistance in edible crops

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	19,25,514		13,94,046	
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment				
ii) Manpower	20,82,940		21,56,000	
iii) Consumable	16,29,779		17,70,000	
iv) Travel	13,301		13,000	
v) Contingencies	96,422		1,00,000	
TOTAL		57,47,956		54,33,046

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	27,57,583		20,83,215	
iii) Consumable	15,64,922		13,14,375	
iv) Travel	49,112		13,728	
v) Contingencies	1,01,027		96,214	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	12,75,312		19,25,514	
Equipment				
TOTAL		57,47,956		54,33,046

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
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(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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NEW DELHI

DBT PROJECT

R/P entitled Understanding synergistic response of Arabidopsis plants exposed to drought and bacterial pathogen.

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	4,74,125		3,90,408	
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment				
ii) Manpower	11,10,000		10,94,000	
iii) Consumable				
iv) Travel	4,98,000		4,98,000	
v) Contingencies				
TOTAL		20,82,125		19,82,408

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	2,77,500		11,10,000	
iii) Consumable				
iv) Travel	4,96,745		3,98,283	
v) Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	13,07,880		4,74,125	
Equipment				
TOTAL		20,82,125		19,82,408

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
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Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DBT PROJECT****R/P entitled Analysis of diversity in yield components (seed size and weight) at transcriptome and epigenome levels for association/genetic mapping of selected loci in rice and chickpea.****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	7,36,224		11,28,123	
Equipment	1,05,421		19,82,889	
<u>Grant- In- Aid for</u>				
i) Equipment	(1,05,421)		-	
ii) Manpower	34,20,000		47,05,920	
iii) Consumable	1,32,46,484		1,40,00,000	
iv) Travel	1,00,000		-	
v) Contingencies	2,55,000		2,81,000	
TOTAL		1,77,57,708		2,20,97,932

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		18,77,468	
ii) Manpower	28,63,472		41,89,907	
iii) Consumable	81,74,450		1,49,20,030	
iv) Travel	23,405		13,954	
v) Contingencies	2,94,193		2,54,928	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	64,02,188		7,36,224	
Equipment	-		1,05,421	
TOTAL		1,77,57,708		2,20,97,932

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
MANAGER**(Dr.RAMESH V.SONTI)**
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DBT PROJECT

R/P entitled Identification and characterization of effectors from necrotrophic blight fungus *Ascochyta rabiei* and their targets from the chickpea.

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,10,971		83,764	
Equipment	14,500		5,08,000	
<u>Grant- In- Aid for</u>				
i) Equipment	-14,500		-	
ii) Manpower	8,83,000		12,90,000	
iii) Consumable	5,88,000		7,20,000	
iv) Travel	-		10,000	
v) Contingencies	48,000		45,000	
TOTAL		16,29,971		26,56,764

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		4,93,500	
ii) Manpower	9,00,335		12,66,200	
iii) Consumable	5,78,746		7,22,773	
iv) Travel	-		-	
v) Contingencies	45,751		48,820	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,05,139		1,10,971	
Equipment	-		14,500	
TOTAL		16,29,971		26,56,764

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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NEW DELHI

DBT PROJECT

R/P entitled Characterization of ubiquitin/26S proteasome pathway-related genes by VIGS in tomato during ToLCNDV infection.

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	2,35,989		-5,209	
Equipment	-		8,747	
<u>Grant- In- Aid for</u>				
i) Equipment	-		-8,747	
ii) Manpower	4,21,792		11,85,600	
iii) Consumable	6,50,000		7,00,000	
iv) Travel	12,000		12,747	
v) Contingencies	45,000		50,000	
TOTAL		13,64,781		19,43,138

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		-	
ii) Manpower	3,88,267		10,01,492	
iii) Consumable	6,21,761		6,49,316	
iv) Travel	-		11,491	
v) Contingencies	51,125		44,850	
<u>Refund to Agency</u>				
Recurring	3,03,628			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	-		2,35,989	
Equipment	-		-	
TOTAL		13,64,781		19,43,138

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DBT PROJECT

**R/P entitled Introgression of begomovirus resistance genes in tomato (Solanum lycopersicum L.) using
MAS and Genomic approach.**

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	2,60,005		1,63,306	
Equipment	48,204		1,91,796	
<u>Grant- In- Aid for</u>				
i) Equipment	-48,204		-	
ii) Manpower	6,87,000		6,53,000	
iii) Consumable	20,43,000		10,69,000	
iv) Travel	22,000		35,000	
v) Contingencies	50,000		47,000	
TOTAL		30,62,005		21,59,102

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		1,43,592	
ii) Manpower	7,77,610		5,93,319	
iii) Consumable	20,72,825		10,42,960	
iv) Travel	30,380		21,842	
v) Contingencies	16,292		49,180	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,64,898		2,60,005	
Equipment	-		48,204	
TOTAL		30,62,005		21,59,102

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
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(SANJIV RAI MEHRA)
PARTNER

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DBT PROJECT****R/P entitled Understanding the molecular intricacies of Rice-Rhizoctonia interactions.****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,01,802		2,48,757	
Equipment	11,721		15,00,150	
<u>Grant- In- Aid for</u>				
i) Equipment	-46,173		-	
ii) Manpower	9,63,000		7,84,000	
iii) Consumable	10,17,695		15,00,000	
iv) Travel	-		-	
v) Contingencies	23,000		50,000	
TOTAL		20,71,045		40,82,907

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-34,452		14,88,429	
ii) Manpower	8,58,837		9,62,822	
iii) Consumable	9,78,202		14,45,101	
iv) Travel	6,847		22,986	
v) Contingencies	675		50,046	
<u>Refund to Agency</u>				
Recurring	2,60,936			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	-		1,01,802	
Equipment	-		11,721	
TOTAL		20,71,045		40,82,907

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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MANAGER(Dr.RAMESH V.SONTI)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DBT PROJECT

R/P entitled Characterization of the versatile role of OsMPK3, a rice mitogen activated protein kinase

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	1,07,633		31,936	
<u>Grant- In- Aid for</u>				
i) Equipment				
ii) Manpower				
iii) Consumable	3,92,000		5,00,000	
iv) Travel				
v) Contingencies				
TOTAL		4,99,633		5,31,936

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower				
iii) Consumable	2,68,429		4,24,303	
iv) Travel				
v) Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	2,31,204		1,07,633	
TOTAL		4,99,633		5,31,936

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DBT PROJECT

R/P entitled Elucidating immune-related pathostress-responsive ECM reportier in legume and tuber crops by comparative proteomic analysis.

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	6,808		88,337	
<u>Grant- In- Aid for</u>				
i) Fellowship	3,00,000		3,00,000	
ii) Consumable				
iii) Travel	5,93,200		5,37,000	
iv) Contingencies				
TOTAL		9,00,008		9,25,337

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Fellowship	3,00,000		3,25,000	
ii) Consumable				
iii) Travel	5,94,714		5,93,529	
iv) Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	5,294		6,808	
TOTAL		9,00,008		9,25,337

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DBT PROJECT****R/P entitled Investigation the role of PROTEIN-L-ISOASPARTYL METHYLTRANSFERASE (PIMT) in plant stress adaptation.****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	9,79,463		5,05,729	
Equipment	733		3,57,733	
<u>Grant- In- Aid for</u>				
i) Equipment	-733		-	
ii) Manpower	2,79,080		6,01,798	
iii) Consumable	7,90,000		7,23,792	
iv) Travel	-		9,158	
v) Contingencies	-		28,838	
TOTAL		20,48,543		22,27,048

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		3,57,000	
ii) Manpower	6,28,659		5,36,732	
iii) Consumable	13,31,446		3,52,850	
iv) Travel	8,955		-	
v) Contingencies	29,330		270	
<u>Refund to Agency</u>				
Recurring	50,153			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	-		9,79,463	
Equipment	-		733	
TOTAL		20,48,543		22,27,048

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI**DBT PROJECT****R/P entitled The role of hypoxia-induced nitric oxide in plant growth and flooding stress survival.****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	6388		4206	
<u>Grant- In- Aid for</u>				
i)Research/Contingency grant	4,93,000		6,95,000	
TOTAL		4,99,388		6,99,206

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i)Research/Contingency grant	4,99,388		6,92,818	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		6,388	
TOTAL		4,99,388		6,99,206

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DBT PROJECT

R/P entitled Association of transcript polymorphic simple sequence repeats, SNPs and microRNAs with agronomic traits in chickpea.

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	32,152		-370	
<u>Grant- In- Aid for</u>				
i) Fellowship	3,00,000		3,00,000	
ii) Consumable				
iii) Travel	5,68,000		6,00,000	
iv) Contingencies				
TOTAL		9,00,152		8,99,630

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Fellowship	3,00,000		3,25,000	
ii) Consumable				
iii) Travel	5,82,058		5,42,478	
iv) Contingencies				
<u>Refund to Agency</u>				
Recurring	18,094			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		32,152	
TOTAL		9,00,152		8,99,630

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DBT PROJECT

DBT's R/P entitled Investigation of molecular and genetic basis of plant development regulation in response to environmental changes.

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	8447		15118	
<u>Grant- In- Aid for</u>				
i) Manpower	11,10,000		10,95,000	
li)Research/Contingency grant	4,92,000		7,50,000	
TOTAL		16,10,447		18,60,118

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	11,10,000		11,10,000	
li)Research/Contingency grant	4,98,603		7,41,671	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	1,844		8,447	
TOTAL		16,10,447		18,60,118

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

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MANAGER

(Dr.RAMESH V.SONTI)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DBT PROJECT

R/P entitled Functional characterization of sugar and auxin regulated DUF581 domain containing genes encoding expressed proteins of unknown function in model plant system Arabidopsis thaliana

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,79,871		10,90,816	
Equipment	17,03,958		18,39,500	
<u>Grant- In- Aid for</u>				
i) Equipment	-		-	
ii) Manpower	6,48,454		-	
iii) Consumable	7,77,175		-	
iv) Travel	-		-	
v) Contingencies	29,935		-	
TOTAL		33,39,393		29,30,316

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	7,68,748		1,35,542	
ii) Manpower	6,80,091		5,24,854	
iii) Consumable	7,76,624		3,83,891	
iv) Travel	19,410		-	
v) Contingencies	5,235		2,200	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,54,075		1,79,871	
Equipment	9,35,210		17,03,958	
TOTAL		33,39,393		29,30,316

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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NEW DELHI**DBT PROJECT****R/P entitled Challenge Programme on Chickpea Functional Genomics.****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	11,92,164		1,08,21,604	
Equipment	41,30,062		1,00,00,000	
<u>Grant- In- Aid for</u>				
i) Equipment	-		-	
ii) Manpower	44,50,287		-	
iii) Consumable	72,97,800		-	
iv) Travel	1,11,423		-	
v) Contingencies	1,68,326		-	
vi)Overheads	-		-	
TOTAL		1,73,50,062		2,08,21,604

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	32,94,000		58,69,938	
ii) Manpower	38,71,949		39,94,480	
iii) Consumable	72,35,734		54,25,635	
iv) Travel	80,814		1,11,423	
v) Contingencies	1,25,284		97,902	
vi)Overheads	-		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	19,06,219		11,92,164	
Equipment	8,36,062		41,30,062	
TOTAL		1,73,50,062		2,08,21,604

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DBT PROJECT

R/P entitled Functional analysis of a Mediator subunit gene, Med17, in rice and Arabidopsis.

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	21,84,340		27,04,000	
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment			-	
ii) Manpower	-		1,54,000	
iii) Consumable	-		13,72,000	
iv) Travel	-		-	
v) Contingencies	-		38,000	
TOTAL		21,84,340		42,68,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	5,31,407		1,53,317	
iii) Consumable	14,78,663		18,77,726	
iv) Travel	3,000		14,173	
v) Contingencies	21,191		38,444	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,50,079		21,84,340	
Equipment	-		-	
TOTAL		21,84,340		42,68,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

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(Dr.RAMESH V.SONTI)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI**DBT PROJECT****R/P entitled Hypoxia-induced nitric oxide as a tool in protection of plants under flooding and pathogen attack.****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	4,68,051			
Equipment	-		10,00,000	
<u>Grant- In- Aid for</u>				
i) Equipment	-		-	
ii) Manpower	3,90,000		3,90,000	
iii) Consumable				
iv) Travel	3,58,000		5,50,000	
v) Contingencies				
vi) Cash Award	1,00,000		1,00,000	
TOTAL		13,16,051		20,40,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		10,00,000	
ii) Manpower	3,57,500		4,22,500	
iii) Consumable				
iv) Travel	8,47,160		49,449	
v) Contingencies				
vi) Cash Award	1,00,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	11,391		4,68,051	
Equipment	-		-	
TOTAL		13,16,051		20,40,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DBT PROJECT

R/P entitled Towards identification, isolation and characterization of Exobasidium vexans strains and their pathogenic determinants/effectors from Blister blight infested tea plantations of Assam and development of a future road-map for effective management practices

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	78,830		3,11,721	
Equipment	2,500		2,02,000	
<u>Grant- In- Aid for</u>				
i) Equipment	-		-	
ii) Manpower	-		-	
iii) Consumable	-		-	
iv) Travel	-		-	
v) Contingencies	-		-	
TOTAL		81,330		5,13,721

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		1,99,500	
ii) Manpower	-		1,94,395	
iii) Consumable	-		36,469	
iv) Travel	-		-	
v) Contingencies	-		2,027	
<u>Refund to Agency</u>				
Recurring	78,830			
Equipment	2,500			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	-		78,830	
Equipment	-		2,500	
TOTAL		81,330		5,13,721

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DBT PROJECT

R/P entitled Cambridge-India Network for Translation Research in Nitrogen

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	6,96,233			
<u>Grant- In- Aid for</u>				
i) Manpower	5,65,300		6,24,000	
ii) Consumable	39,95,100		12,00,000	
iii) Travel	4,45,500		6,50,000	
iv) Contingencies	57,600		1,00,000	
v) Others	99,500		1,00,000	
vi) Overhead Charges	-		1,00,000	
TOTAL		58,59,233		27,74,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,24,000		4,09,291	
ii) Consumable	36,65,541		9,73,926	
iii) Travel	2,49,635		4,45,485	
iv) Contingencies	34,644		57,634	
v) Others	20,420		91,431	
vi) Overhead Charges	-		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	12,64,993		6,96,233	
TOTAL		58,59,233		27,74,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

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NEW DELHI**DBT PROJECT****R/P entitled To study the role of glucose and its interaction with hormones in controlling shade stress response in Arabidopsis and tomato****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	9,45,144			
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment				
ii) Manpower	6,82,000		7,68,000	
iii) Consumable	13,43,000		10,00,000	
iv) Travel	-		-	
v) Contingencies	31,000		50,000	
TOTAL		30,01,144		18,18,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	7,59,780		3,71,006	
iii) Consumable	15,98,453		5,01,850	
iv) Travel	-			
v) Contingencies	46,750			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	5,96,161		9,45,144	
Equipment				
TOTAL		30,01,144		18,18,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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DBT PROJECT

R/P entitled Simple quick and onsite early diagnostic kit for pathogen detection during asymptomatic stage

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	3,71,307			
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	17,02,800			
ii) Manpower	5,72,900		5,80,800	
iii) Consumable	3,87,300		4,00,000	
iv) Travel	18,000		20,000	
v) Contingencies	50,000		50,000	
vi) Overhead charges	1,00,000		1,00,000	
TOTAL		32,02,307		11,50,800

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	17,02,800			
ii) Manpower	3,54,145		268665	
iii) Consumable	41,797		353690	
iv) Travel	9,562		8326	
v) Contingencies	5,749		48812	
vi) Overhead charges	1,00,000		100000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	9,88,254		3,71,307	
Equipment	-			
TOTAL		32,02,307		11,50,800

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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(RAKESH MOHAN)
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NEW DELHI**DBT PROJECT****R/P entitled Identification and characterization of MicroRNAs regulating embryonic shoot and root Meristems****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	5,66,733			
Equipment	20,88,000			
<u>Grant- In- Aid for</u>				
i) Equipment	-		20,88,000	
ii) Manpower	4,40,000		5,61,600	
iii) Consumable	6,00,000		7,00,000	
iv) Travel	50,000		35,000	
v) Contingencies	50,000		50,000	
TOTAL		37,94,733		34,34,600

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	20,42,219			
ii) Manpower	5,61,600		1,59,354	
iii) Consumable	3,62,215		6,12,951	
iv) Travel	34,526		-	
v) Contingencies	41,971		7,562	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	7,06,421		5,66,733	
Equipment	45,781		20,88,000	
TOTAL		37,94,733		34,34,600

For MEHRA & SISTANI

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DBT PROJECT

R/P entitled **Genome wide association study of yield contributing agronomic traits in foxtail millet**
(*Setaria italica* (L) BEAUV)

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	500			
<u>Grant- In- Aid for</u>				
i) Equipment				
ii) Manpower				
iii) Consumable	5,00,000		5,00,000	
iv) Travel				
v) Contingencies				
TOTAL		5,00,500		5,00,000

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower				
iii) Consumable	4,99,552		4,99,500	
iv) Travel				
v) Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	948		500	
TOTAL		5,00,500		5,00,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
(Formerly National Centre for Plant Genome Research)
NEW DELHI

DBT PROJECT

R/P entitled Identification of genes contributing resistance to Alternaria brassicae from a nonhost plant and their characterization in Arabidopsis for durable crop protection against blight disease in Brassica rapa

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	7,03,310			
Equipment	36,333			
<u>Grant- In- Aid for</u>				
i) Equipment	-43,988		10,00,000	
ii) Manpower	2,00,000		3,90,000	
iii) Consumable	3,99,988		6,00,000	
iv) Travel	30,000		-	
v) Contingencies	26,000		30,000	
vi) Overhead charges	41,000		50,000	
TOTAL		13,92,643		20,70,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-7,655		9,63,667	
ii) Manpower	1,87,200		75,214	
iii) Consumable	4,14,480		2,17,686	
iv) Travel	28,015		-	
v) Contingencies	15,120		23,790	
vi) Overhead charges	41,000		50,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	7,14,483		7,03,310	
Equipment	-		36,333	
TOTAL		13,92,643		20,70,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
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(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DBT PROJECT****R/P entitled Genetic understanding and manipulation of sucrose transport to increase the rice yield****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	8,96,071			
Equipment	10,00,000			
<u>Grant- In- Aid for</u>				
i) Equipment	-		10,00,000	
ii) Manpower	2,14,300		4,36,800	
iii) Consumable				
iv) Travel	6,00,000		6,00,000	
v) Contingencies				
vi) Overhead charges	90,000		1,00,000	
vii) Cash Award	1,00,000		1,00,000	
TOTAL		29,00,371		22,36,800

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	9,97,300		-	
ii) Manpower	3,91,758		19,962	
iii) Consumable				
iv) Travel	6,36,919		1,20,767	
v) Contingencies				
vi) Overhead charges	90,000		1,00,000	
vii) Cash Award	1,00,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	6,81,694		8,96,071	
Equipment	2,700		10,00,000	
TOTAL		29,00,371		22,36,800

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
MANAGER**(Dr.RAMESH V.SONTI)**
DIRECTOR**(SANJIV RAI MEHRA)**
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DBT PROJECT****R/P entitled Drought and wilt disease causing pathogen interaction in tomato plants: dissecting molecular responses using VIGS****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	6,02,075			
Equipment	38,000			
<u>Grant- In- Aid for</u>				
i) Equipment	-		10,00,000	
ii) Manpower	1,53,000		4,36,800	
iii) Consumable				
iv) Travel	3,00,000		6,00,000	
v) Contingencies				
vi) Overhead charges	90,000		1,00,000	
vii) Cash Award	2,00,000		-	
TOTAL		13,83,075		21,36,800

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	20,305		9,62,000	
ii) Manpower	1,88,415		1,52,880	
iii) Consumable				
iv) Travel	4,43,807		2,81,845	
v) Contingencies				
vi) Overhead charges	90,000		1,00,000	
vii) Cash Award	2,00,000		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	4,22,853		6,02,075	
Equipment	17,695		38,000	
TOTAL		13,83,075		21,36,800

For MEHRA & SISTANI

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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NEW DELHI

DBT PROJECT

R/P entitled Functional validation of yield related genes

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	7,14,859			
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	-		-	
ii) Manpower	-		6,21,000	
iii) Consumable	-		6,00,000	
iv) Travel	-		40,000	
v) Contingencies	-		50,000	
TOTAL		7,14,859		13,11,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	3,61,400		1,10,777	
iii) Consumable	9,617		4,85,364	
iv) Travel	-		-	
v) Contingencies	30,928		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	3,12,914		7,14,859	
Equipment	-		-	
TOTAL		7,14,859		13,11,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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(RAKESH MOHAN)
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NEW DELHI

DBT PROJECT

R/P entitled Investigation of the role of mitogen activated protein kinase in rice yield

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c Recurring	66,240			
<u>Grant- In- Aid for</u>				
i) Manpower	3,00,000		3,00,000	
ii) Consumable				
iii) Travel	5,74,000		6,00,000	
iv) Contingencies				
TOTAL		9,40,240		9,00,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	3,00,000		3,00,000	
ii) Consumable				
iii) Travel	5,91,959		5,33,760	
iv) Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c Recurring	48,281		66,240	
TOTAL		9,40,240		9,00,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DBT PROJECT

R/P entitled To study the interaction between glucose and salicylic acid signal transduction pathway in
model plant Arabidopsis thaliana

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
<u>Grant- In- Aid for</u>				
i) Consumable				
ii) Travel	5,00,000			
iii) Contingencies				
TOTAL		5,00,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Consumable				
ii) Travel	4,93,616			
iii) Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	6,384			
TOTAL		5,00,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DBT PROJECT

R/P entitled Molecular characterization of miRNA 159 for delineating its root in tomato leaf curl disease tolerance in tomato

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
<u>Grant- In- Aid for</u>				
i) Fellowship	3,00,000			
ii) Consumable				
iii) Travel	6,00,000			
iv) Contingencies				
TOTAL		9,00,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Fellowship	3,00,000			
ii) Consumable				
iii) Travel	5,81,880			
iv) Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	18,120			
TOTAL		9,00,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI**DBT PROJECT****R/P entitled Identification of the major players behind the root nodule symbiosis in the legumes and understanding their roles in nitrogen fixation****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
<u>Grant- In- Aid for</u>				
i) Fellowship	24,05,000			
ii) Consumable				
iii) Travel	9,24,620			
iv) Contingencies				
v) Interest	77,410			
TOTAL		34,07,030		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Fellowship	1,85,000			
ii) Consumable				
iii) Travel	70,685			
iv) Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	31,51,345			
TOTAL		34,07,030		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DBT PROJECT

R/P entitled Understanding the role of calcium ion channels in plant defense against Spodoptera litura herbivory

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	17,18,250			
ii) Manpower	6,81,600			
iii) Consumable	7,00,000			
iv) Travel	10,000			
v) Contingencies	50,000			
vi) Overheads charges	76,000			
TOTAL		32,35,850		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	17,29,949			
ii) Manpower	4,55,340			
iii) Consumable	6,61,419			
iv) Travel	-			
v) Contingencies	11,800			
vi) Overheads charges	76,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	3,13,041			
Equipment	(11,699)			
TOTAL		32,35,850		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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NEW DELHI

DBT PROJECT

R/P entitled Understanding the Molecular regulation of root Hair Development in Chickpea for Crop improvement:

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	10,00,000			
ii) Manpower	3,90,000			
iii) Consumable				
iv) Travel	6,00,000			
v) Contingencies				
vi) Cash Award	1,00,000		-	
TOTAL		20,90,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	2,11,959			
ii) Manpower	2,60,000			
iii) Consumable				
iv) Travel	5,32,682			
v) Contingencies				
vi) Cash Award	1,00,000		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,97,318			
Equipment	7,88,041		-	
TOTAL		20,90,000		-

For MEHRA & SISTANI
CHARTERED ACCOUNTANT
Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI**DBT PROJECT****R/P entitled Study of vascular wilt responsive proteome in chickpea-Fusarium****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment				
ii) Manpower	6,96,000			
iii) Consumable	5,00,000			
iv) Travel	25,000			
v) Contingencies	50,000			
vi) Overheads charges	58,000			
TOTAL		13,29,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	3,88,710			
iii) Consumable	97,394			
iv) Travel	-			
v) Contingencies	11,450			
vi) Overheads charges	58,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	7,73,446			
Equipment	-			
TOTAL		13,29,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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DIRECTOR**(SANJIV RAI MEHRA)**
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NEW DELHI

DBT PROJECT

R/P entitled Identification, Diversity and Functional Roles of Host-encoded Resistance in Vector Borne Plant RNA Viruses

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	20,00,000			
ii) Manpower	9,51,600			
iii) Consumable	2,00,000			
iv) Travel	50,000			
v) Contingencies	50,000			
TOTAL		32,51,600		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-			
ii) Manpower	-			
iii) Consumable	-			
iv) Travel	-			
v) Contingencies	-			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	12,51,600			
Equipment	20,00,000			
TOTAL		32,51,600		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DBT PROJECT

R/P entitled Biofortification of Branched Chain Amino Acid-Leucine in Brassica Crops using CRISPR-Cas9 Mediated Genome Editing

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	11,00,000			
ii) Manpower	6,16,800			
iii) Consumable	15,00,000			
iv) Travel	50,000			
v) Contingencies	50,000			
vi) Overhead charges	1,00,000			
TOTAL		34,16,800		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	-			
iii) Consumable	-			
iv) Travel	-			
v) Contingencies	-			
vi) Overhead charges	-			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	23,16,800			
Equipment	11,00,000			
TOTAL		34,16,800		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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DBT PROJECT

R/P entitled Genome engineering to upscale the production of a broad spectrum anti-fungal protein
Bg_9562 in Escherichia coli

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	17,04,000			
ii) Manpower	5,61,600			
iii) Consumable	11,00,000			
iv) Travel	50,000			
v) Contingencies	50,000			
TOTAL		34,65,600		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	-			
iii) Consumable	-			
iv) Travel	-			
v) Contingencies	-			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	17,61,600			
Equipment	17,04,000			
TOTAL		34,65,600		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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(RAKESH MOHAN)
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NEW DELHI**DBT PROJECT****R/P entitled To Perform Event Selection under Small Scale Open Field Growth Condition and Substantial Equivalence Test of the Low Glucosinolate Brassica juncea Transgenic Lines****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
<u>Grant- In- Aid for</u>				
i) Manpower	2,52,900			
ii) Consumable	7,08,600			
iii) Travel	15,000			
iv) Contingencies	15,000			
TOTAL		9,91,500		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	-			
ii) Consumable	-			
iii) Travel	-			
iv) Contingencies	-			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	9,91,500			
TOTAL		9,91,500		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
MANAGER**(Dr.RAMESH V.SONTI)**
DIRECTOR**(SANJIV RAI MEHRA)**
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DBT PROJECT****R/P entitled Avanced Research Platform for Crop Sciences****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring				
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	22,99,45,425			
ii) Manpower	57,92,400			
iii) Consumable	60,00,000			
iv) Travel	1,00,000			
v) Contingencies	12,00,000			
TOTAL		24,30,37,825		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower	-			
iii) Consumable	-			
iv) Travel	-			
v) Contingencies	-			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,30,92,400			
Equipment	22,99,45,425			
TOTAL		24,30,37,825		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI**DBT PROJECT****DBT Cambridge Joint Lectureship Programme****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u> With Bank in Saving A/c				
<u>Grant- In- Aid for</u> i) Manpower	9,84,000			
TOTAL		9,84,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,900			
<u>CLOSING BALANCE</u> With Bank in Saving A/c	9,77,100			
TOTAL		9,84,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

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NEW DELHI

DBT PROJECT

8th Mentorship Meeting/Conclave for Ramalingaswami Re-entry fellows

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
<u>Grant- In- Aid for</u>				
i) Travel/Contingencies	61,96,000			
Registration Fees (received from Participants of the Conclave)	16,75,000			
TOTAL		78,71,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Travel/Contingencies	78,05,148			
Refund to Agency	65,852			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-			
TOTAL		78,71,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DST PROJECT

R/P entitled SERB Woman Excellence Award to Dr. Saloni Mathur

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	3,71,114		466	
<u>Grant - In - Aid for</u>				
i) Equipment				
ii) Manpower				
iii) Consumable	-		5,00,000	
iv) Travel				
v)Contingencies				
vi)Overheads	-		1,00,000	
TOTAL		3,71,114		6,00,466

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower				
iii) Consumable	3,69,832		1,29,352	
iv) Travel				
v)Contingencies				
vi)Overheads	-		1,00,000	
<u>Refund to Agency</u>				
Recurring	1,282			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		3,71,114	
TOTAL		3,71,114		6,00,466

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DST PROJECT

R/P entitled SERB Woman Excellence Award to Dr.Pinky Agarwal

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	5,00,337		337	
<u>Grant - In - Aid for</u>				
i) Equipment				
ii) Manpower				
iii) Consumable	-		5,00,000	
iv) Travel				
v)Contingencies				
vi)Overheads	-		1,00,000	
TOTAL		5,00,337		6,00,337

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower				
iii) Consumable	4,60,969		-	
iv) Travel				
v)Contingencies				
vi)Overheads	-		1,00,000	
<u>Refund to Agency</u>				
Recurring	39,368			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		5,00,337	
TOTAL		5,00,337		6,00,337

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DST PROJECT

R/P entitled Dissecting physiological and molecular responses adapted by chickpea plants exposed to concurrent drought stress and bacterial pathogen infection by using transcript profiling and VIGS

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	82,157		1,18,159	
<u>Grant - In - Aid for</u>				
i) Manpower	1,62,960		4,95,000	
ii) Consumable				
iii) Travel	-		1,55,000	
iv)Contingencies				
v)Overheads	-		1,00,000	
TOTAL		2,45,117		8,68,159

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	2,02,258		5,50,000	
ii) Consumable				
iii) Travel	42,859		1,36,002	
iv)Contingencies				
v)Overheads	-		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	-		82,157	
TOTAL		2,45,117		8,68,159

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

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NEW DELHI**DST PROJECT**

R/P entitled Uncovering the unique stress tolerance mechanisms of contrasting chickpea genotypes against simultaneous drought stress and pathogen infection: An approach based on miRNA-induced gene silencing

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	7,333		16,525	
Equipment	2,545		2,545	
<u>Grant - In - Aid for</u>				
i) Equipment	-		-	
ii) Manpower	6,52,903		6,60,000	
iii) Consumable	2,97,097		2,40,000	
iv) Travel				
v)Contingencies				
vi)Overheads	1,00,000		1,00,000	
TOTAL		10,59,878		10,19,070

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		-	
ii) Manpower	6,60,000		6,52,903	
iii) Consumable				
iv) Travel				
v)Contingencies	2,87,595		2,56,289	
vi)Overheads	1,00,000		1,00,000	
Refund to Agency				
Recurring	9,738			
Equipment	2,545			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	-		7,333	
Equipment	-		2,545	
TOTAL		10,59,878		10,19,070

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DST PROJECT

R/P entitled Max Plank Fellowship

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	7,536		4,428	
<u>Grant - In - Aid for</u>				
i) Travel	-		67,500	
TOTAL		7,536		71,928

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Travel	4,363		59,964	
<u>Refund to Agency</u>	3,173		4,428	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		7,536	
TOTAL		7,536		71,928

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI**DST PROJECT****R/P entitled Development of Genetic Transformation System in C4 Setaria Models (Setaria italica and S.viridis).****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	29,365		6,54,835	
Equipment	3,000		1,50,000	
<u>Grant - In - Aid for</u>				
i) Equipment	-		-	
ii) Manpower	6,33,387		2,20,000	
iii) Consumable	1,96,613		10,000	
iv) Travel	10,000		10,000	
v)Contingencies	10,000		10,000	
vi)Overheads	1,00,000		1,00,000	
TOTAL		9,82,365		11,54,835

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		1,47,000	
ii) Manpower	6,60,000		6,60,000	
iii) Consumable	2,10,083		1,67,825	
iv) Travel	-		22,450	
v)Contingencies	6,124		25,195	
vi)Overheads	1,00,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	3,158		29,365	
Equipment	3,000		3,000	
TOTAL		9,82,365		11,54,835

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

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NEW DELHI**DST PROJECT****R/P entitled Whole genome bisulfite sequencing for methylation analysis in two foxtail millet cultivars with contrasting response to abiotic stress****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	17,389		8,15,161	
Equipment	2,125		1,00,000	
<u>Grant - In - Aid for</u>				
i) Equipment	-		-	
ii) Manpower	6,60,000		-	
iii) Consumable	2,00,000		-	
iv) Travel	30,000		-	
v)Contingencies	10,000		-	
vi)Overheads	1,00,000		-	
TOTAL		10,19,514		9,15,161

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-		97,875	
ii) Manpower	6,60,000		5,22,500	
iii) Consumable	1,70,000		2,57,126	
iv) Travel	18,014		8,696	
v)Contingencies	6,238		9,450	
vi)Overheads	1,00,000		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	63,137		17,389	
Equipment	2,125		2,125	
TOTAL		10,19,514		9,15,161

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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NEW DELHI

DST PROJECT

R/P entitled A partnership to maximize nitrogen use efficiency in crops by understanding a NO-mediated modulatory switch

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	91,824		1,40,676	
<u>Grant - In - Aid for</u>				
i) Consumable	1,24,984		-	
ii) Mobility of scientist	1,71,340		-	
iii) Contingencies	20,000		-	
TOTAL		4,08,148		1,40,676

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Consumable	1,20,002		-	
ii) Mobility of scientist	1,69,020		48,852	
iii) Contingencies	19,478		-	
<u>Refund to Agency</u>				
Recurring	99,648			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		91,824	
TOTAL		4,08,148		1,40,676

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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(RAKESH MOHAN)
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NEW DELHI

DST PROJECT

R/P entitled Calcum regulated plant defense strategies upon insect pest attack

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	6,26,112		6,24,620	
<u>Grant - In - Aid for</u>				
i) Equipment				
ii) Manpower				
iii) Consumable	13,34,140		14,67,400	
iv) Travel				
v)Contingencies				
Interest earned	23,097			
TOTAL		19,83,349		20,92,020

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
ii) Manpower				
iii) Consumable	9,62,767.50		14,65,908	
iv) Travel				
v)Contingencies				
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	10,20,581.50		6,26,112	
TOTAL		19,83,349		20,92,020

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DST PROJECT

Indo German R/P entitled Calcium regulated plant defense strategies upon Insect pest attack

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	8,28,102			
Equipment				
<u>Grant - In - Aid for</u>				
i) Manpower	-		7,80,000	
ii) Consumable	-		4,50,000	
iv) Travel	-		4,20,000	
v)Overheads	-		1,00,000	
<u>Interest earned</u>	15,016			
TOTAL		8,43,118		17,50,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	3,74,400		2,59,664	
ii) Consumable	11,080		4,31,177	
iv) Travel	67,226		1,31,057	
v)Overheads	-		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	3,90,412		8,28,102	
Equipment				
TOTAL		8,43,118		17,50,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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NEW DELHI**DST PROJECT****R/P entitled Molecular and Biochemical Dissection of SWP1 function and its implication in Plant Development****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,00,000			
Equipment	7,99,340			
<u>Grant - In - Aid for</u>				
i) Equipment			7,99,340	
i) Manpower				
ii) Consumable	8,06,236		1,00,000	
iv) Travel				
v)Contingencies				
vi)Overheads	93,764			
TOTAL		17,99,340		8,99,340

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	8,95,541			
i) Manpower				
ii) Consumable	8,00,428			
iv) Travel				
v)Contingencies				
vi)Overheads	93,764			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,05,808		1,00,000	
Equipment	-96,201		7,99,340	
TOTAL		17,99,340		8,99,340

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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NEW DELHI

DST PROJECT

R/P entitled Understanding the Functional Significance of Med15, an important Mediator subunit, in Rice

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,00,000			
Equipment	7,87,500			
<u>Grant - In - Aid for</u>				
i) Equipment	-		7,87,500	
i) Manpower				
ii) Consumable	10,72,856		1,00,000	
iv) Travel				
v)Contingencies				
vi)Overheads	1,27,144			
TOTAL		20,87,500		8,87,500

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	7,50,000			
i) Manpower				
ii) Consumable	11,64,717			
iv) Travel				
v)Contingencies				
vi)Overheads	1,27,144			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	8,139		1,00,000	
Equipment	37,500		7,87,500	
TOTAL		20,87,500		8,87,500

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER
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NEW DELHI**DST PROJECT****R/P entitled Investigating the Role of Phospholipid Remodeling in Low Phosphate Tolerance in Rice****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,00,000			
Equipment	80,000			
<u>Grant - In - Aid for</u>				
i) Equipment	-		80,000	
i) Manpower				
ii) Consumable	7,40,266		1,00,000	
iv) Travel				
v)Contingencies				
vi)Overheads	59,734			
TOTAL		9,80,000		1,80,000

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	79,458			
i) Manpower				
ii) Consumable	6,31,801			
iv) Travel				
v)Contingencies				
vi)Overheads	59,734			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	2,08,465		1,00,000	
Equipment	542		80,000	
TOTAL		9,80,000		1,80,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER
Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DST PROJECT****R/P entitled Identification of effector proteins from generalist herbivore, Spodoptera littura and its targets in Arabidopsis****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	1,00,000			
Equipment	10,00,000			
<u>Grant - In - Aid for</u>				
i) Equipment	-		10,00,000	
i) Manpower				
ii) Consumable	8,64,885		1,00,000	
iv) Travel				
v)Contingencies				
vi)Overheads	1,05,115			
TOTAL		20,70,000		11,00,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	9,95,572			
i) Manpower				
ii) Consumable	9,28,263			
iv) Travel				
v)Contingencies				
vi)Overheads	1,05,115			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	36,622		1,00,000	
Equipment	4,428		10,00,000	
TOTAL		20,70,000		11,00,000

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NEW DELHI**DST PROJECT****R/P entitled Comparative proteomics of chickpea plasma membrane and functional characterization of dehydration-responsive candidate genes****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	9,71,710			
Equipment				
<u>Grant - In - Aid for</u>				
i) Equipment				
i) Manpower	-		4,36,800	
ii) Consumable	4,59,888		8,00,000	
iv) Travel	21,168		50,000	
v)Contingencies	12,000		50,000	
vi)Overheads	1,06,944		1,06,944	
TOTAL		15,71,710		14,43,744

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment				
i) Manpower	2,18,400		65,755	
ii) Consumable	9,41,848		2,66,167	
iv) Travel	11,593		21,168	
v)Contingencies	58,399		12,000	
vi)Overheads	1,06,944		1,06,944	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	2,34,526		9,71,710	
Equipment	-		-	
TOTAL		15,71,710		14,43,744

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NEW DELHI

DST PROJECT

R/P entitled Functional elucidation of serine hydroxy methyl transferase 6 and 7 during plant resistance against pathogen infection

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c Recurring	8,99,816			
<u>Grant - In - Aid for</u>				
i) Manpower				
ii) Consumable	3,16,885		10,38,933	
iii) Travel				
iv)Contingencies				
v)Overheads	83,115		83,114	
TOTAL		12,99,816		11,22,047

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower				
ii) Consumable	12,02,735		1,39,117	
iii) Travel				
iv)Contingencies				
v)Overheads	83,115		83,114	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c Recurring	13,966		8,99,816	
TOTAL		12,99,816		11,22,047

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NEW DELHI

DST PROJECT

R/P entitled Identification and characterization of novel genes and alleles contributing for resistant strach traits in foxtail millet

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	9,93,125			
<u>Grant - In - Aid for</u>				
i) Manpower				
ii) Consumable	1,85,200		12,86,600	
iii) Travel				
iv) Contingencies				
v) Overheads	14,800		1,02,900	
TOTAL		11,93,125		13,89,500

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower				
ii) Consumable	11,48,657		2,93,475	
iii) Travel				
iv)Contingencies				
v)Overheads	14,800		1,02,900	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	29,668		9,93,125	
TOTAL		11,93,125		13,89,500

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NEW DELHI

DST PROJECT

R/P entitled Investigation of the molecular mechanism of MKK-3-MPK6-MYC2 module in Arabidopsis seedling development

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	5,32,833.00			
Equipment	4,67,739.00			
<u>Grant - In - Aid for</u>				
i) Equipment	-		4,67,739.00	
i) Manpower				
ii) Consumable	4,07,079.00		10,05,600.00	
iv) Travel				
v)Contingencies				
vi)Overheads	92,921.00		92,921.00	
TOTAL		15,00,572.00		15,66,260.00

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	4,59,999.95			
i) Manpower				
ii) Consumable	3,28,391.00		4,72,767.00	
iv) Travel				
v)Contingencies				
vi)Overheads	92,921.00		92,921.00	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	6,11,521.00		5,32,833.00	
Equipment	7,739.05		4,67,739.00	
TOTAL		15,00,572.00		15,66,260.00

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NEW DELHI

DST PROJECT

R/P entitled Role of SUN1(Sad/1UNC-84) domain protein from Chickpea and its orthologue from Arabidopsis in dehydration Stress

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c Recurring	3,05,800			
<u>Grant - In - Aid for</u>				
i) Manpower	-		3,60,000	
ii) Consumable	-		2,00,000	
iii) Travel	-		20,000	
iv) Contingencies	-		20,000	
v) Overheads	-		60,000	
<u>Interest Earned</u>	2,032			
TOTAL		3,07,832		6,60,000

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	1,79,000		1,81,000	
ii) Consumable	75,989		1,09,735	
iii) Travel	-		-	
iv) Contingencies	-		3,465	
v) Overheads	-		60,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c Recurring	52,843		3,05,800	
TOTAL		3,07,832		6,60,000

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NEW DELHI**DST PROJECT****R/P entitled Comprehensive characterization of PIF-family of transcription factors for abiotic stress signaling in crop plants****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	2,00,000			
Equipment	4,21,875			
<u>Grant - In - Aid for</u>				
i) Equipment	-		4,21,875	
i) Manpower				
ii) Consumable				
iv) Travel	9,43,635		2,00,000	
v)Contingencies				
vi)Overheads	1,06,365		-	
TOTAL		16,71,875		6,21,875

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	4,17,850		-	
i) Manpower				
ii) Consumable	11,22,042			
iv) Travel				
v)Contingencies				
vi)Overheads	1,06,365		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	21,593		2,00,000	
Equipment	4,025		4,21,875	
TOTAL		16,71,875		6,21,875

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Study of dehydration response in chickpea (Cicer arietinum L.) using omics approaches

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	1,73,703			
<u>Grant- In- Aid for</u>				
i) Manpower	6,56,308		6,63,500	
ii) Research/Contingency grant	1,99,000		2,01,000	
iii) Overhead Charges	49,500		1,00,500	
TOTAL		10,78,511		9,65,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,41,129		6,60,000	
ii) Research/Contingency grant	1,85,275		30,797	
iii) Overhead Charges	49,500		1,00,500	
<u>Refund to Agency</u>				
Recurring	3,02,607			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		1,73,703	
TOTAL		10,78,511		9,65,000

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Inducible expression of β -purothionin gene in Brassica juncea to develop resistance against Alternaria blight and sclerotinia sclerotiorum

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	9			
<u>Grant- In- Aid for</u>				
i) Manpower	6,35,160		6,84,840	
ii) Research/Contingency grant	1,92,224		2,07,530	
iii) Overhead Charges	46,270		1,03,730	
TOTAL		8,73,663		9,96,100

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,87,321		6,84,839	
ii) Research/Contingency grant	1,90,963		2,07,522	
iii) Overhead Charges	46,270		1,03,730	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	49,109		9	
TOTAL		8,73,663		9,96,100

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Functional analysis of transcriptional reprogramming during plant defence under varying nitrogen nutrition

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	21,306			
<u>Grant- In- Aid for</u>				
i) Manpower	6,31,600		6,88,400	
ii) Research/Contingency grant	1,91,162		2,08,600	
iii) Overhead Charges	45,700		1,04,300	
TOTAL		8,89,768		10,01,300

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,31,613		6,88,387	
ii) Research/Contingency grant	1,70,817		1,87,307	
iii)Overhead Charges	45,700		1,04,300	
<u>Refund to Agency</u>				
Recurring	41,638			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		21,306	
TOTAL		8,89,768		10,01,300

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DST(SERB NPDF) PROJECT

R/P entitled Dissection of miRNA regulating unique tolerance mechanisms under concurrent drought and bacterial pathogen stress in Arabidopsis through MIR VIGS

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	48,120			
<u>Grant- In- Aid for</u>				
i) Manpower	6,23,500		6,96,500	
ii) Research/Contingency grant	1,88,482		2,11,000	
iii) Overhead Charges	43,500		1,06,500	
TOTAL		9,03,602		10,14,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		6,60,000	
ii) Research/Contingency grant	1,97,766		1,99,380	
iii) Overhead Charges	43,500		1,06,500	
<u>Refund to Agency</u>				
Recurring	2,336			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		48,120	
TOTAL		9,03,602		10,14,000

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DST(SERB NPDF) PROJECT

R/P entitled Understanding the functional conservation and/or divergence of development/stress related miRNAs in selected crops

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		6,60,000	
ii) Research/Contingency grant	2,00,000		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		9,10,000		9,60,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		6,60,000	
ii) Research/Contingency grant	1,99,817		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
<u>Refund to Agency</u>				
Recurring	183			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		-	
TOTAL		9,10,000		9,60,000

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DST(SERB NPDF) PROJECT

R/P entitled Identification of sequence variations for use in genetic mapping and QTLs analysis in Lentil

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	32			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		6,60,000	
ii) Research/Contingency grant	2,00,000		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		9,10,032		9,60,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		6,60,000	
ii) Research/Contingency grant	1,99,997		1,99,968	
iii)Overhead Charges	50,000		1,00,000	
<u>Refund to Agency</u>				
Recurring	35			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		32	
TOTAL		9,10,032		9,60,000

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DST(SERB NPDP) PROJECT

R/P entitled The role of alternative oxidase and NAD(P)H dehydrogenases in protection of plants during flooding and drought under differential nitrogen source

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	2,00,000			
<u>Grant- In- Aid for</u>				
i) Manpower	-		6,60,000	
ii) Research/Contingency grant	-		2,00,000	
iii) Overhead Charges	-		1,00,000	
TOTAL		2,00,000		9,60,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	-		6,60,000	
ii) Research/Contingency grant	76,500		-	
iii)Overhead Charges	-		1,00,000	
<u>Refund to Agency</u>				
Recurring	1,23,500			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		2,00,000	
TOTAL		2,00,000		9,60,000

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DST(SERB NPDF) PROJECT

R/P entitled Understanding oxalate-responsive metabolic remodeling and enhancing nutritional quality and stress tolerance in groundnut by expressing oxalate decarboxylase

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
OPENING BALANCE				
With Bank in Saving A/c	52,152			
Grant- In- Aid for				
i) Manpower	6,22,700		6,97,300	
ii) Research/Contingency grant	1,88,382		2,11,300	
iii) Overhead Charges	44,400		1,05,600	
TOTAL		9,07,634		10,14,200

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,91,694		6,97,258	
ii) Research/Contingency grant	2,40,417		1,59,190	
iii)Overhead Charges	44,400		1,05,600	
Refund to Agency				
Recurring	31,123			
CLOSING BALANCE				
With Bank in Saving A/c	-		52,152	
TOTAL		9,07,634		10,14,200

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DST(SERB NPDF) PROJECT

R/P entitled Epigenetic regulation of miRNAs during development in Arabidopsis thaliana

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	3,90,268			
<u>Grant- In- Aid for</u>				
i) Manpower	3,85,000		6,60,000	
ii) Research/Contingency grant	1,24,246		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		9,49,514		9,60,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		3,85,000	
ii) Research/Contingency grant	1,06,237		84,732	
iii) Overhead Charges	50,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	1,33,277		3,90,268	
TOTAL		9,49,514		9,60,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)

FINANCE OFFICER

(SANDEEP DATTA)

MANAGER

(Dr.RAMESH V.SONTI)

DIRECTOR

(SANJIV RAI MEHRA)

PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Identification and functional characterization of novel miRNA that regulate ABA modulated hormone signaling under combined drought stress and pathogen infection in Arabidopsis

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	2,87,382			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		6,60,000	
ii) Research/Contingency grant	2,00,000		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		11,97,382		9,60,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		4,57,742	
ii) Research/Contingency grant	2,58,896		1,14,876	
iii)Overhead Charges	50,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	2,28,486		2,87,382	
TOTAL		11,97,382		9,60,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)

FINANCE OFFICER

(SANDEEP DATTA)

MANAGER

(Dr.RAMESH V.SONTI)

DIRECTOR

(SANJIV RAI MEHRA)

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled The role of uncoupling protein and alternative oxidase in protection of plants under hypoxia mediated by nitric oxide

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	3,50,913			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		6,60,000	
ii) Research/Contingency grant	2,00,000		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		12,60,913		9,60,000

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		4,64,839	
ii) Research/Contingency grant	2,28,997		44,248	
iii)Overhead Charges	50,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	3,21,916		3,50,913	
TOTAL		12,60,913		9,60,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)

FINANCE OFFICER

(SANDEEP DATTA)

MANAGER

(Dr.RAMESH V.SONTI)

DIRECTOR

(SANJIV RAI MEHRA)

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Comparative transcriptomic and physiological analyses of cultivated and wild rice to decipher genetic basis of source-sink relationship during crop growth

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	4,39,772			
<u>Grant- In- Aid for</u>				
i) Manpower	3,80,000		6,60,000	
ii) Research/Contingency grant	1,13,315		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		9,83,087		9,60,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		3,74,000	
ii) Research/Contingency grant	2,48,531		46,228	
iii)Overhead Charges	50,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	24,556		4,39,772	
TOTAL		9,83,087		9,60,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)

FINANCE OFFICER

(SANDEEP DATTA)

MANAGER

(Dr.RAMESH V.SONTI)

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Light-Dependent regulation of miRNA biogenesis through MAP kinase signaling cascade in Arabidopsis

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	3,25,025			
<u>Grant- In- Aid for</u>				
i) Manpower	3,50,167		6,60,000	
ii) Research/Contingency grant	1,08,630		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		8,33,822		9,60,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		3,50,167	
ii) Research/Contingency grant	94,830		1,84,808	
iii)Overhead Charges	50,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	28,992		3,25,025	
TOTAL		8,33,822		9,60,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DST(SERB NPDF) PROJECT****R/P entitled Molecular approach to study the regulation of U-Box domain containing AM gene in infected tomato plants****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	4,10,820			
<u>Grant- In- Aid for</u>				
i) Manpower	3,59,333		6,60,000	
ii) Research/Contingency grant	1,12,740		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		9,32,893		9,60,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		3,59,333	
ii) Research/Contingency grant	60,255		89,847	
iii)Overhead Charges	50,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	1,62,638		4,10,820	
TOTAL		9,32,893		9,60,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
MANAGER**(Dr.RAMESH V.SONTI)**
DIRECTOR**(SANJIV RAI MEHRA)**
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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled To increase photosynthesis and yield in rice by improving sucrose translocation from the source (leaves) to sink tissues by enhancing the expression of SWEETS in a concerted manner using the CRISPR/Cas technology

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	5,28,167			
<u>Grant- In- Aid for</u>				
i) Manpower	3,32,244		6,60,000	
ii) Research/Contingency grant	1,00,000		2,00,000	
iii) Overhead Charges	50,000		1,00,000	
TOTAL		10,10,411		9,60,000

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,60,000		3,31,833	
ii) Research/Contingency grant	1,36,037		-	
iii)Overhead Charges	50,000		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	1,64,374		5,28,167	
TOTAL		10,10,411		9,60,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
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(Dr.RAMESH V.SONTI)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Integrated analysis of metabolomics and transcriptomic to elucidate the flavonoid biosynthesis pathway in hadjod (Cissus quadrangularis L.)

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,56,333			
ii) Research/Contingency grant	1,59,678		-	
iii) Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	43,989		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
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(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Understanding the effect of temperature on secondary metabolite profile of tomato and the underlying genetic basis

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	3,31,656			
ii) Research/Contingency grant	1,74,575		-	
iii) Overhead Charges	1,00,000			
<u>Refund to Agency</u>	3,53,769			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Identification and functional characterization of dehydration-stress-responsive chloroplast proteins in rice (*Oryza sativa* L.)".

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
OPENING BALANCE				
With Bank in Saving A/c	-			
Grant- In- Aid for				
i) Manpower	6,67,789		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,67,789		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,65,323			
ii) Research/Contingency grant	1,86,784		-	
iii) Overhead Charges	1,00,000			
CLOSING BALANCE				
With Bank in Saving A/c	15,682		-	
TOTAL		9,67,789		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DST(SERB NPDF) PROJECT****Identification of effector genes during biotrophic and necrotrophic phases of *Bipolaris sorokiniana* and wheat (*triticum aestivum*) interaction****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u> With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,56,333			
ii) Research/Contingency grant	1,71,583		-	
iii)Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u> With Bank in Saving A/c	32,084		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
MANAGER**(Dr.RAMESH V.SONTI)**
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DST(SERB NPDF) PROJECT****The role of Arabidopsis non symbiotic haemoglobins (nHb1) in nitrate assimilation under stress****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,67,789		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,67,789		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,65,323			
ii) Research/Contingency grant	1,94,372		-	
iii)Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	8,094		-	
TOTAL		9,67,789		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
MANAGER**(Dr.RAMESH V.SONTI)**
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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled "Development of Tomato Leaf Curl New Delhi Virus (ToLCNDV) resistance in tomato using Crispr/Cas9 technology"

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,50,000			
ii) Research/Contingency grant	1,97,489		-	
iii) Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	1,12,511		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

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NEW DELHI**DST(SERB NPDF) PROJECT****R/P entitled Proteomic characterization of tuber development and nutrient acquisition in sweetpotato
(Ipomoea batatas (L.) Lam)****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,50,000			
ii) Research/Contingency grant	1,96,565		-	
iii) Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	1,13,435		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Analysis of calcium regulated signaling during symbiotic interaction between Arabidopsis thaliana-Piriformospora indica

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,50,000			
ii) Research/Contingency grant	1,27,522		-	
iii) Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	1,82,478		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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DST(SERB NPDF) PROJECT

R/P entitled Understanding the key pathogenicity determinants of tomato-Rhizoctonia solani interaction

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,67,789		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,67,789		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,65,323			
ii) Research/Contingency grant	1,89,569		-	
iii) Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	12,897		-	
TOTAL		9,67,789		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI**DST(SERB NPDF) PROJECT****R/P entitled Global analysis of tomato leaf curl disease induced alternative splicing in tomato****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,50,000			
ii) Research/Contingency grant	1,92,523		-	
iii)Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	1,17,477		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Functional characterization of selected OsSWEET gene(s) for role in root development and nutrient acquisition/stress

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,56,333			
ii) Research/Contingency grant	1,99,725		-	
iii)Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	3,942		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**DST(SERB NPDF) PROJECT****R/P entitled Comprehensive Organ-Specific Development Proteome analysis if chickpea (Cicer arietinum)****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	4,20,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		7,20,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	4,08,333			
ii) Research/Contingency grant	1,99,546		-	
iii)Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	12,121		-	
TOTAL		7,20,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER**(SANDEEP DATTA)**
MANAGER**(Dr.RAMESH V.SONTI)**
DIRECTOR**(SANJIV RAI MEHRA)**
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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Possible role of small RNAs in regulating gene expression during various stages of bud dormancy release in apple

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,67,742			
ii) Research/Contingency grant	1,94,256		-	
iii)Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	98,002		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Identification and characterization of novel transcription factors regulating phosphate homeostasis in rice

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,00,645		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,00,645		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	5,45,645			
ii) Research/Contingency grant	1,85,325		-	
iii) Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	69,675		-	
TOTAL		9,00,645		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST(SERB NPDF) PROJECT

R/P entitled Identification and characterization of non-coding RNAs (miRNAs and lncRNAs) governing seed development in chickpea

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	6,05,000			
ii) Research/Contingency grant	-		-	
iii)Overhead Charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	2,55,000		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST(SERB NPDF) PROJECT

Study of vascular wilt responsive proteome in chickpea-Fusarium interaction

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Research/Contingency grant	2,00,000		-	
iii) Overhead Charges	1,00,000		-	
TOTAL		9,60,000		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	85,752			
ii) Research/Contingency grant	-		-	
iii)Overhead Charges	1,00,000			
<u>Refund to Agency</u>	7,74,248			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		-	
TOTAL		9,60,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST PROJECT

R/P entitled Identification and Characterization of novel genes for micronutrients content in foxtail millet through genome wide association mapping

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Consumables	2,00,000			
iii)Travel	25,000			
iv) Contingencies	25,000		-	
v)Overhead charges	1,00,000			
TOTAL		10,10,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	-			
ii) Consumables	-		-	
iii)Travel	-			
iv) Contingencies	-			
v)Overhead charges	-			
<u>Refund to Agency</u>	10,10,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		-	
TOTAL		10,10,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
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NEW DELHI

DST PROJECT

Indo-Portugal Joint project Alternative oxidase-a tool to increase bio-mass productivity under temperature and flooding stress

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Travel	3,46,000		-	
ii) Contingencies	25,000		-	
<u>Interest earned</u>	5,579			
TOTAL		3,76,579		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Travel	-			
ii) Contingencies	14,985		-	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	3,61,594		-	
TOTAL		3,76,579		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST PROJECT

Indo-South Africa R/P entitled Elucidating stress-responsive pathways by comparative proteome mining in the legumes and cereals

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,24,000		-	
ii) Consumables	9,00,000			
iii) Travel	3,80,200			
iv) Contingencies	50,000		-	
<u>Interest earned</u>	35,245			
TOTAL		19,89,445		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	1,45,600			
ii) Consumables	5,05,375		-	
iii) Travel	-			
iv) Contingencies	1,148			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	13,37,322		-	
TOTAL		19,89,445		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
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Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

DST PROJECTFunctional characterization of cell wall related genes in lignocellulosic biofuel crop model *Setaria viridis* by VIGS

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
<u>Grant- In- Aid for</u>				
i) Manpower	6,60,000		-	
ii) Consumables	2,50,000			
iii) Travel	25,000			
iv) Contingencies	25,000		-	
v) Overhead charges	1,00,000			
<u>Interest earned</u>	5,682			
TOTAL		10,65,682		-

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	1,10,000			
ii) Consumables	-		-	
iii) Travel	-			
iv) Contingencies	-			
v) Overhead charges	1,00,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	8,55,682		-	
TOTAL		10,65,682		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

DST PROJECT

R/P entitled Investigating the roles of heterotrimeric G-protein components (G α and RGS) towards governing agronomical traits and abiotic stress tolerance in Indian oilseed mustard

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
Recurring				
Equipment				
<u>Grant- In- Aid for</u>				
i) Equipment	3,00,000			
ii) Manpower	4,05,600		-	
iii) Consumables	5,00,000			
iv)Travel	50,000			
v) Contingencies	50,000		-	
vi)Overhead charges	88,400			
TOTAL		13,94,000		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-			
ii) Manpower	-		-	
iii) Consumables	-			
iv)Travel	-			
v) Contingencies	-			
vi)Overhead charges	88,400			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c			-	
Recurring	10,05,600			
Equipment	3,00,000			
TOTAL		13,94,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI**DST PROJECT****R/P entitled Biological Invasion: Linking Phytochemical Dynamics of India's Most Aggressive plant Invader to Genomic Adaptations****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	-			
Recurring				
<u>Grant- In- Aid for</u>				
i) Manpower	4,36,800		-	
ii) Consumables	7,50,000			
iii)Overhead charges	94,900			
TOTAL		12,81,700		-

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	-		-	
ii) Consumables	-			
iii)Overhead charges	94,900			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c			-	
Recurring	11,86,800			
TOTAL		12,81,700		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI**DST PROJECT****R/P entitled Functional delineation of DROUGHT AND SALT TOLERANCE transcription factor targets for abiotic stress tolerance in rice****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
Recurring	-			
Equipment	-			
<u>Grant - In - Aid for</u>				
i) Equipment	-			
i) Manpower				
ii) Consumable	4,50,000			
iv) Travel				
v)Contingencies				
vi)Overheads	50,000			
TOTAL		5,00,000		

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Equipment	-			
i) Manpower				
ii) Consumable	-			
iv) Travel				
v)Contingencies				
vi)Overheads	50,000			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c				
Recurring	4,50,000			
Equipment	-			
TOTAL		5,00,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
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NEW DELHI**DST PROJECT****SERB PAC Meeting organised by Dr. Manoj Prasad****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u> With Bank in Saving A/c				
<u>Grant - In - Aid for</u> i) Travel/Contingencies	16,00,000			
TOTAL		16,00,000		

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Travel/Contingencies	-			
<u>CLOSING BALANCE</u> With Bank in Saving A/c	16,00,000			
TOTAL		16,00,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

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NEW DELHI**DST PROJECT****SERB PAC Meeting organised by Dr. Subhra Chakraborty****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u> With Bank in Saving A/c				
<u>Grant - In - Aid for</u> i) Travel/Contingencies	9,00,000			
TOTAL		9,00,000		

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Travel/Contingencies	5,58,195			
<u>Refund to Agency</u>	3,41,805			
<u>CLOSING BALANCE</u> With Bank in Saving A/c	-			
TOTAL		9,00,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

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NEW DELHI**DST PROJECT****SERB PAC Meeting organised by Dr. Subhra Chakraborty****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u> With Bank in Saving A/c				
<u>Grant - In - Aid for</u> i) Travel/Contingencies	4,00,000			
TOTAL		4,00,000		

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Travel/Contingencies	1,44,594			
<u>CLOSING BALANCE</u> With Bank in Saving A/c	2,55,406			
TOTAL		4,00,000		-

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

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NEW DELHI

DST PROJECT

Satellite Symposium

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c				
<u>Grant - In - Aid for</u>				
i) Travel/Contingencies from Sponsors	74,076.27			
TOTAL		74,076.27		

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Travel/Contingencies	-			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	74,076.27			
TOTAL		74,076.27		-

Note: An amount of Rs.1347.46 is deducted as TDS and is receivable from Income Tax Deptt.

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)

FINANCE OFFICER

(SANDEEP DATTA)

MANAGER

(Dr.RAMESH V.SONTI)

DIRECTOR

(SANJIV RAI MEHRA)

PARTNER

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

INSA Project

R/P entitled Comparative Analysis of Plant Organellar Genes with their Nuclear and free-living counterparts to understand genome organization, gene content and Evolutionary Patterns of origin and continuity

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
OPENING BALANCE				
With Bank in Saving A/c	26,936		1,86,348	
Grant - In - Aid for				
i) Manpower	-		42,000	
ii) Travel	-		30,412	
iii) Contingencies	-		1,78,510	
iv) Overheads	-		62,730	
TOTAL		26,936		5,00,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower	-		1,55,806	
ii) Travel	22,399		43,069	
iii) Contingencies	-		2,11,459	
iv) Overheads	-		62,730	
Refund to Agency	4,537			
CLOSING BALANCE				
With Bank in Saving A/c	-		26,936	
TOTAL		26,936		5,00,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

INSA Project

R/P entitled Manipulation of citrate biosynthesis and transport for improved low phosphate tolerance in rice

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	80,207			
<u>Grant - In - Aid for</u>				
i) Manpower				
ii) Travel	-		4,00,000	
iii) Contingencies				
iv) Overheads	-		1,00,000	
TOTAL		80,207		5,00,000

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Manpower				
ii) Travel	80,097		3,19,793	
iii) Contingencies				
iv) Overheads	-		1,00,000	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	110		80,207	
TOTAL		80,207		5,00,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

NASI PLATINUM JUBILEE CHAIR

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	3,05,139		1,59,932	
<u>Grant - In - Aid for</u>				
i) Salary	19,65,558		22,44,103	
ii) Contingencies	1,85,527		1,99,865	
TOTAL		24,56,224		26,03,900

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Salary	20,48,404		21,13,234	
ii) Contingencies	1,71,144		1,85,527	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	2,36,676		3,05,139	
TOTAL		24,56,224		26,03,900

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

PSI & AOAPC CONFERENCE

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	5,58,502			
<u>Grant - In - Aid for</u>				
i) Grant/Sponsorship	1,99,249		61,45,670	
ii)Registration/Other Fee	-		24,85,462	
iii) Security Deposit	-		50,000	
TOTAL		7,57,751		86,81,132

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
i) Expenditure	47,654		81,22,630	
ii) PSI	3,50,000			
iii)Refund of Security Deposit	50,000			
iv) Refund to NIPGR	3,10,097			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		5,58,502	
TOTAL		7,57,751		86,81,132

Note: An amount of Rs.46,193/- is deducted as TDS and is receivable from Income Tax Dept.

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI**FELLOWSHIP GRANT CSIR****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	5,94,696		6,36,733	
Amt.received from CSIR for Research Fellowships & Associatships	48,59,577		1,44,25,878	
TOTAL		54,54,273		1,50,62,611

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
Amount paid for Research Fellowships & Associatships	47,88,327		1,44,67,915	
<u>Refund to Agency</u>	40,968			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	6,24,978		5,94,696	
TOTAL		54,54,273		1,50,62,611

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
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NEW DELHI**FELLOWSHIP GRANT UGC****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	1,26,590		43,169	
Amt.received from UGC for Research Fellowships & Associatships	-		24,90,927	
TOTAL		1,26,590		25,34,096

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
Amount paid for Research Fellowships & Associatships	38,800		24,07,506	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	87,790		1,26,590	
TOTAL		1,26,590		25,34,096

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(Formerly National Centre for Plant Genome Research)

NEW DELHI

FELLOWSHIP GRANT DBT

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	14,91,809		20,71,234	
Amt.received from DBT for Research Fellowships & Associatships	1,81,30,177		1,48,72,478	
TOTAL		1,96,21,986		1,69,43,712

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
Amount paid for Research Fellowships & Associatships	1,66,80,891		1,54,51,903	
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	29,41,095		14,91,809	
TOTAL		1,96,21,986		1,69,43,712

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
PARTNER

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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI**FELLOWSHIP GRANT ICMR****RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018**

RECEIPTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	10,344		2,73,148	
Amt.received from ICMR for Research Fellowships & Associatships	3,29,549		5,18,314	
TOTAL		3,39,893		7,91,462

PAYMENTS			AMOUNT-IN-RUPEES	
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
Amount paid for Research Fellowships & Associatships	-		7,81,118	
<u>Refund to Agency</u>	10,312			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	3,29,581		10,344	
TOTAL		3,39,893		7,91,462

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER(SANDEEP DATTA)
MANAGER(Dr.RAMESH V.SONTI)
DIRECTOR(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

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NEW DELHI

FELLOWSHIP GRANT RTF-DCS

RECEIPT AND PAYMENT ACCOUNT FOR THE PERIOD FROM 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
With Bank in Saving A/c	1,92,716		-	
Amt.received from RTF-DCS for Research Fellowships & Associatships	-		2,70,000	
TOTAL		1,92,716		2,70,000

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
Amount paid for Research Fellowships & Associatships	1,33,079		77,284	
<u>Refund to Agency</u>	59,637			
<u>CLOSING BALANCE</u>				
With Bank in Saving A/c	-		1,92,716	
TOTAL		1,92,716		2,70,000

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
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NATIONAL INSTITUTE OF PLANT GENOME RESEARCH
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NEW DELHI

RECEIPT AND PAYMENT ACCOUNT OF NIPGR EMPLOYEES CONTRIBUTORY PROVIDENT FUND ACCOUNT

FOR THE PERIOD 1st APRIL 2017 TO 31st MARCH 2018

RECEIPTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
<u>OPENING BALANCE</u>				
In Savings Account	66,141		22,04,623	
In Fixed Deposit	5,10,48,442		4,04,43,638	
<u>SUBSCRIPTIONS</u>				
(i) Amount of Regular Subscription	55,28,295		47,54,500	
(ii) Refund of advances received from Subscribers	8,71,600		8,76,300	
Amount received from NIPGR Core grant to meet Institute's liability towards Contribution & Deficit of Interest	27,44,032		35,64,872	
<u>INTEREST EARNED</u>				
Savings Account/Investments	44,78,989		14,81,746	
Other Receipts	-		20,285	
TOTAL		6,47,37,499		5,33,45,964

PAYMENTS		AMOUNT-IN-RUPEES		
PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
Advances paid to Subscribers	3,00,000		15,00,000	
Part final withdrawal	-		-	
Full & Final payment of Subscribers	68,95,987		7,31,381	
<u>CLOSING BALANCE</u>				
In Savings Account	19,78,416		66,141	
In Fixed Deposit	5,55,63,096		5,10,48,442	
TOTAL		6,47,37,499		5,33,45,964

For MEHRA & SISTANI

CHARTERED ACCOUNTANT

Firm Registration No.: 000409N

(RAKESH MOHAN)
FINANCE OFFICER

(SANDEEP DATTA)
MANAGER

(Dr.RAMESH V.SONTI)
DIRECTOR

(SANJIV RAI MEHRA)
PARTNER

Membership No.080402

**COMMENTS ON AUDITOR'S REPORT ON ACCOUNTS FOR THE YEAR ENDED
MARCH 31, 2018**

Para

1. Pending approval of final cost of construction by Building Committee, Phase-II of the building has not been capitalized. Also no depreciation has been charged on the same. In the absence of working/information, we are not in a position to ascertain and quantify the impact thereof on the financial statements (Also refer point no.6 (b) of schedule no.24 to the financial statement).

Reply

1. The final cost of phase-II buildings of the Institute will be capitalized after vetting of final cost by the Building Committee and approval by the Governing Body as per Institutional norms. Since, the final bill of the construction cost has not been received from the Project Management Consultants (M/s RITES Ltd), the cost of phase-II buildings could not be finalized during the year, hence, no depreciation has been charged during the year 2017-18, though the building have been put to use. The matter is being actively pursued with M/s RITES Ltd, and it is expected that the requisite information/details will be received in the current fiscal and capitalization of the building cost will be effected in the Annual Accounts for the Financial Year 2018-19.

(Rakesh Mohan)
Finance Officer

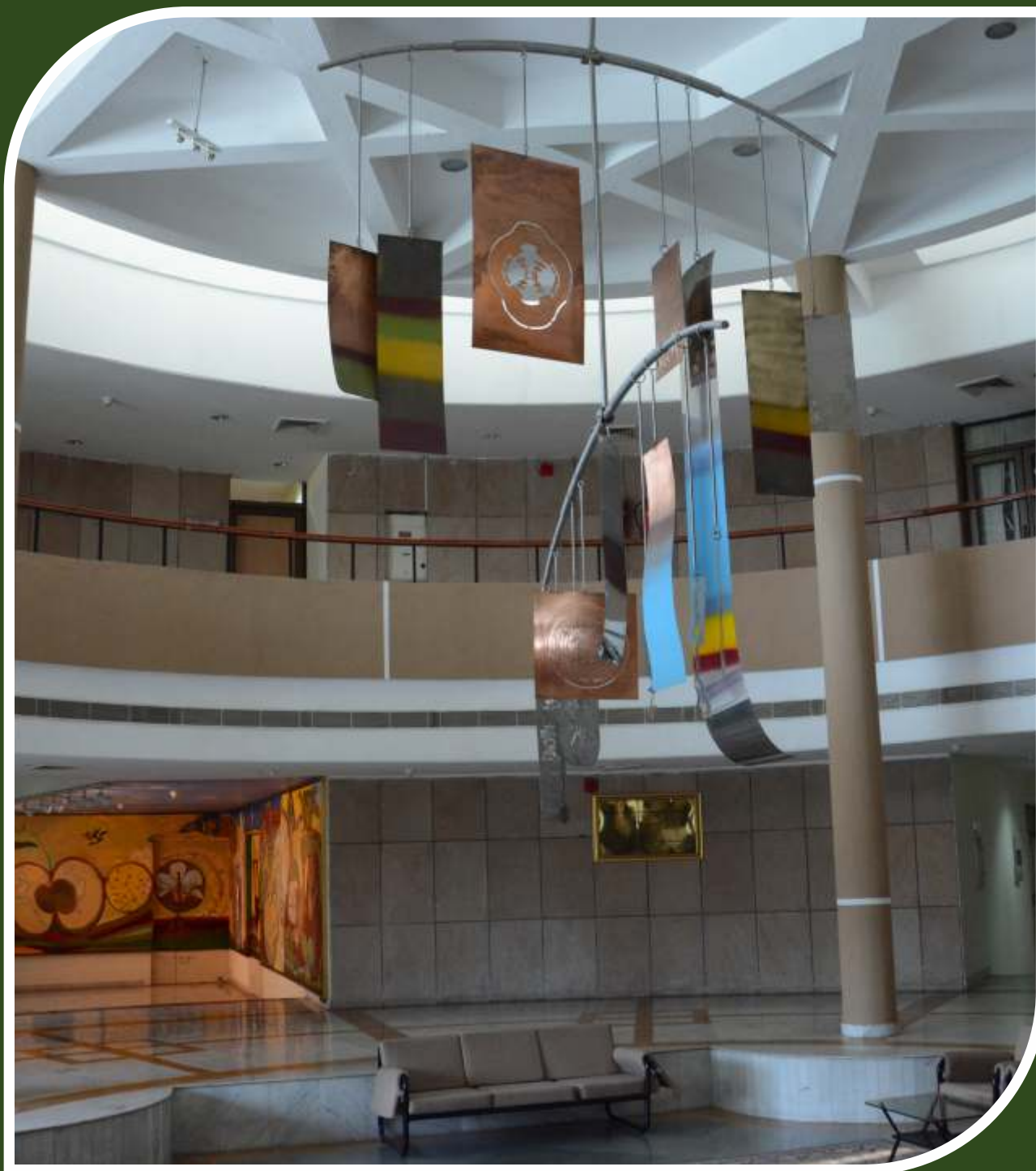
(Sandeep Datta)
Manager

(Dr.Ramesh V.Sonti)
Director

A page from History



**Dr. A.P.J. Abdul Kalam, then President of India, lighting the lamp along with
Dr. M.K. Bhan, then Secretary, Department of Biotechnology,
Prof. M.S. Swaminathan, Founder, MSSRF and Prof. Asis Datta, then Director, NIPGR
on the occasion of dedication of NIPGR (then NCPGR) to the Nation on
November 28, 2006 at NIPGR campus**



National Institute of Plant Genome Research

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