

## Projects supported under EFB-Biological Sciences

SN	PI Name and Institute	Project Title	State
1.	Prof. Supratim Datta, IISER, Kolkata	Engineering of an novel enzymatic pathway to enable conversion of PET (Polyethylene terephthalate) to bioethanol and its integration with cellulose hydrolysis	West Bengal
2.	Dr. Monika Sachdev, CSIR-CDRI, Lucknow	Preclinical Development and Scientific Validation of Putranjiva Seeds for Female Pro-fertility	Uttar Pradesh
3.	Dr. Sanjay Singh, NIAB, Hyderabad	Antibacterial Nanozyme- mediated Targeted Elimination of Antibiotic Resistant Bacteria	Telangana
4.	Dr. Shiv Singh, CSIR-AMPRI Bhopal	Simultaneous Photo-Bio-Electro-Degradation of recalcitrant compounds of wastewater and Bioenergy Generation through Visible Light-Induced Electrodes based advanced Microbial Fuel Cells: Sustainable Synergy and Enlightened Solutions	Madhya Pradesh
5.	Dr.Krithika Ravi, IIT Madras, Chennai	Chemical and biological upgradation of waste sugarcane bagasse lignin into dicarboxylic acids via a novel approach	Tamil Nadu
6.	Prof.Surajit Das, NIT, Rourkela	Deciphering the interplay between biofilm matrix component and small RNA in biofilm regulation and catabolic gene expression in <i>Pseudomonas aeruginosa</i> PAO1 for phenanthrene degradation	Odisha
7.	Prof. Bijay Prakash Tripathi, IIT, Delhi	Designing Efficient Single-atom Catalysts for Remediation of Antibiotics and emerging organic pollutants	Delhi
8.	Dr. Sonu Gandhi, NIAB, Hyderabad	Development and validation of efficient multiplexed diagnostic platforms for early detection of African Swine Fever Virus	Telangana
	Dr.JagadishHiremath, NIVEDI, Bengaluru		Karnataka
9.	Dr.Niraj Kumar, THSTI Faridabad	Translating knowledge from natural & professional producers 'plasma cells' into industrial producers 'CHO cells' for improving yield from mammalian bioprocess	Haryana
10.	Prof.GuhanJayaraman, IIT Madras	Engineering Bacterial Chassis and Development of Bioprocess Strategies for Efficient Bioconversion of Lignocellulosic Sugars to Platform Chemicals	Tamil Nadu

11.	Dr.HimanshuSinha, IIT Madras	Exploring the adaptive potential of ribosomal protein variants to develop antifungal drug resistance	Tamil Nadu
12.	Dr.KuldeepVerma, CDFD, Hyderabad	Understanding the mechanosensing role of amoebic V-type H <sup>+</sup> ATPase subunit/s and its implication in cellular contractility and trogocytosis	Telangana
13.	Dr.Aruna Pal, WBUAFS, Kolkata	Development of gene edited chicken resistant to avian influenza for safe human health and studying chicken/duck model for host resistance against influenza in human	West Bengal
14.	Dr.PinakiDey, CSIR-NIIST Trivandrum	Development of ultrasound assisted membrane bioreactor and aligned operational processes for sustainable enzyme reusable saccharification of cellulose-enriched waste biomass	Kerala
	Dr. G. Arthanareeswaran, NIT, Tiruchirappalli		Tamil Nadu
15.	Prof.Biswadip Das, Jadavpur University, Calcutta	Mechanism of post-transcriptional regulation of cellular repertoire of SKS1 mRNA in <i>Saccharomyces cerevisiae</i>	West Bengal
16.	Dr.Amit Sharma, JMI, New Delhi	Modulations in the rate and the extent of light induced allosteric phototropins to develop customized biological photoswitches	Delhi
17.	Prof.SuneelKateriya, JNU, New Delhi	Development of algal optobiotechnological strategies for production of anti-inflammatory small molecules and microproteins from green algae	Delhi
18.	Dr.Vipin Kumar, IIT (ISM), Dhanbad	Developing portable potentiometric biosensors for in-situ detection of trace metal pollutants (Cd,Pb,Hg and Cu)	Jharkhand
19.	Dr.AaratPratyakshKalra, IIT Delhi	Harnessing Proteins to Build All-Organic Solar Cells	Delhi
20.	Dr.GurpreetKaur, GADVASU, Ludhiana	A diagnostic tool (Tetra ARMS PCR) to differentiate Porcine Parvovirus types and using computational methods for analysing their emergence.	Punjab
21.	Dr. Adnan Hussain Gora, ICAR - CMFRI Kochi	Development of a sustainable aquafeed with docosahexaenoic acid rich <i>Aurantiochytrium</i> sp. as an alternative to fish oil for enhancing Silver pompano nutrition	Kerala
	Dr. Martin Xavier, ICAR - CIFT, Cochin		Kerala
22.	Dr.PreetiSrivastava, IIT, Delhi	Molecular and Structural insights into the regulation of a catabolic dsz operon	Delhi
	Dr. Neel Bhavesh, ICGEB, New Delhi		Delhi
23.	Dr.Anil Patel, IIT, Kanpur	Development and Characterization of Regulatory Biomolecular Circuits for Plasmid Copy Numbers in Synthetic	Uttar Pradesh

		Biology	
24.	Dr.MdSohailAkhtar, CDRI, Lucknow	Unraveling the novel interplay of ubiquitination in the regulation of gene expression	Uttar Pradesh
25.	Prof.RadhakrishnanMahalakshmi, IISER, Bhopal	Mechanistic Correlation of Human Mitochondrial Sorting and Assembly Machinery Biogenesis and Bioenergetics with Functional Regulators	Madhya Pradesh
26.	Dr.RajanSankaranarayanan, CCMB, Hyderabad	The mechanism and the functional role of a chiral proofreading variant in Animalia	Telangana
27.	Dr.Nagendra R Hegde, NIAB, Hyderabad	Bacteriophages for mitigating bovine mastitis and antimicrobial resistance	Telangana
28.	Dr.VikasTyagi, Thapar Institute of Engineering and Technology, Patiala	Upgradation of biomass-derived building blocks to high-value chemicals by the integration of biocatalysis and electrosynthesis	Punjab
29.	Dr.SunitaKushwah, Tezpur University - Tezpur	Xyloglucan remodelling enzymes as potential target for crop and biomass improvement	Assam
30.	Dr.Shailesh Kumar Patidar, CURAJ, Ajmer	Understanding algal microbiome compositions, functional genomic traits, and allelochemicals interactions in polyalgal and mono-algal cultures of suitable synthetic ecology models for biofuel production	Rajasthan
31.	Prof.RajagopalSubramanyam, University of Hyderabad, Hyderabad	Bioengineering of thioredoxin family gene (TRX-m) for enhanced photosynthesis and photoprotection under highlight conditions in Chlamydomonasreinhardtii strains	Telangana
32.	Prof.Soumya De, Indian Institute of Technology, Kharagpur	Engineering allosteric regulation in an intein enzyme and its application for the synthesis and purification of linear and cyclic therapeutic peptides from bacteria	West Bengal
33.	Prof. PradeepVerma, CURAJ	Modulating bio-photolytic pathways and integrating one-step multi enzymatic pre-treatment of fermentative biomass in microalgal system for enhance hydrogen production	Rajasthan
	Dr.Vivekanand, Malaviya National Institute of Technology, Jaipur		Rajasthan
34.	Dr. Amrita Bakshi, Ramjas College, Delhi	Elucidating direct role of leptin on reproductive functions of spotted snakehead Channapunctata	Delhi
35.	Dr.DebabrataPatra, Institute of Nano Science and Technology, Mohali	Enzyme-powered fluidics: Transforming the landscape of molecular transport, on-chip bioassays and self-cleaning antimicrobial	Punjab
	Dr.SubhabrataMaiti, IISER,		Punjab

	Mohali	surfaces	
36.	Dr. Abhrajyoti Ghosh, Bose Institute, Kolkata	Functional characterization and interaction of archaeal prefoldin and small heat shock protein 14 with the Group II Chaperonin (Hsp60)	West Bengal
37.	Dr. Sujit Kumar Bhutia, NIT, Rourkela	Role of MTP18 in determining DRP1 fission signaling for mitochondrial biogenesis or degradation	Odisha
38.	Dr. Shubhendu Palei, IIT, Kharagpur	Directed Evolution of Enzyme in the Crowded Confinement of DNA	West Bengal
	Prof. Avik Samanta, IIT, Kharagpur	Synthetic Cells	West Bengal
39.	Dr. Devyani Halder, CDFD, Hyderabad	Single-molecule imaging of yeast sirtuin Sir2 to understand its trafficking and target-search mechanism for transcription silencing	Telangana
	Dr. Gunjan Mehta, IIT Hyderabad		Telangana
40.	Prof. Tanveer Hussain, IISc, Bangalore	Structural and biochemical investigations into the mechanism of canonical translation initiation in bacteria	Karnataka
41.	Dr. Parveen Goyal, CSIR-NCL, Pune	Structural and Biochemical Characterisation of the Rhamnolipid Pathway in <i>Pseudomonas aeruginosa</i> for Drug Development and Bio-manufacturing.	Maharashtra
42.	Dr. Arif Ahmad Pandit, Sher e Kashmir University of Agricultural Sciences and Technology, Kashmir	Optimizing Oviductal Immunology for Enhanced Embryo Transfer Success in Jersey Cattle: A Targeted Approach to Improve Conception Rates and Embryo	Jammu & Kashmir
	Prof. Praveen Ramamurthy, IISc, Bengaluru		Karnataka
43.	Prof. Rajeev Kaul, UD, New Delhi	Investigating Peste-des-petits ruminants virus coded proteins role in virus pathogenesis	Delhi
44.	Dr. Abhijit Subhashrao Deshmukh, NIAB, Hyderabad	<i>Elucidating the role of Cdc5/Prp19-associated complex in pre-mRNA splicing of highly intron-rich zoonotic parasite Toxoplasma gondii</i>	Telangana
45.	Dr. Neelam Amit Kungwani, GBU, Gandhinagar	Development of bacterial biofilm-inspired hydrogel for the sustainable bioremediation of microplastics	Gujarat
46.	Dr. Radhika Venkatesan, IISER, Kolkata	Integrating Chemical and Biological Control: The Role of Pesticides in Insect Immunity and Biocontrol Dynamics	West Bengal
47.	Dr. Victoria Chanu Khangembam, Directorate of Cold water Fisheries Research, Bhimtal, Uttarakhand	Mining fish proteome for discovery of novel peptide antibiotics	Uttarakhand

48.	Dr. Ritu Trivedi Central Drug Research Institute, Lucknow	Role of Specificity Protein-1 (SP1) associated with post-lactational miRNA(s) in the process of bone formation	Uttar Pradesh
49.	Dr. Paresh Sharma National Institute of Animal Biotechnology, Hyderabad	Targeting Vaccine Development for Bovine Theileriosis by Modulating Key Signaling Pathways in <i>Theileriaannulata</i> -Infected Leukocytes	Telangana
50.	Dr. Vinod Kumar National Institute of Animal Biotechnology (NIAB), Hyderabad	Non-animal derived edible 3-D matrices for expansion and differentiation of meat precursor cells: An economically viable strategy for scaling up the bioprocess of cellular meat	Telangana
51.	Dr. Siddharth Gautam Indian Veterinary Research Institute- Uttarakhand	Immunological Evaluation of Molecular Adjuvants with Live Attenuated LSDV Vaccine for Improved and Sustained Protection	Uttarakhand
52.	Dr. Kamal Mandal Gujarat Biotechnology University, Gandhinagar	Development of cross-linking mass spectrometry based platform to enable identification of protein-conformation specific cell surface antigens of zoonotic pathogens.	Gujarat
53.	Dr. Anand Srivastava National Institute of Animal Biotechnology, Hyderabad	Development of an artificial feeding system for tick propagation as an alternative to large animals for controlled experimentation	Telangana
54.	Dr. Vanish Kumar National Agri-Food Biotechnology Institute (NABI), Mohali	Development of electrospun plastic antibodies and advanced material-based biosensing strips for efficient and facile detection of protein allergens (gluten, $\beta$ -lactoglobulin, ovalbumin) in food products	Punjab
55.	Prof. Prasenjit Bhaumik Indian Institute of Technology, Bombay	Understanding the structural and mechanistic basis for the broad substrate specificity of cellobextrin transporter	Maharashtra
56.	Prof. Anjan Kumar Banerjee Indian Institute of Science Education and Research (IISER), Pune	Exploring a high-throughput combinatorial approach using heterologous promoters and endogenous signal peptides to enhance commercially important protein production in moss ( <i>Physcomitrium patens</i> )	Maharashtra
57.	Dr. Yash Paul Sharma Post Graduate Institute for Medical Education and Research, Chandigarh	To identify the novel genetic biomarkers and correlate with the differentially expressed pro-inflammatory and anti-inflammatory cytokines in north Indian population prone to acute coronary syndrome	Chandigarh

<b>58.</b>	Prof. Rituparna Sinha Roy Indian Institute of Science Education and Research, Kolkata	Design of novel peptidic immune checkpoint inhibitors for anticancer treatment	West Bengal
<b>59.</b>	Dr. Praveenraj Jayasimhan ICAR- Central Island Agricultural Research Institute, Port Blair	Conservation assessment and captive breeding of the threatened freshwater fish of the Andaman and Nicobar Islands for ecosystem services	Andaman and Nicobar
<b>60.</b>	Prof. Bhoopander Giri Swami Shraddhanand College, University of Delhi, Alipur Delhi	Development of microbial phytase-enriched feed for Heteropneustes fossils (Singhi) using aquatic macrophytes	Delhi
	Dr. Ravi Kumar Goswami Hindu College, University of Delhi, Delhi		Delhi
	Dr. Ajima Begum Kirori Mal College, University of Delhi, Delhi		Delhi
	Prof. Bijender Singh Central University of Haryana, Haryana		Haryana
<b>61.</b>	Dr. Debabrata Chanda Central Institute of Medicinal and Aromatic Plants, Lucknow	Management of cardiometabolic disease associated with diabetes through promising role of <i>Gymnemasylvestre</i> in alleviation of Peripheral Artery Disease (PAD)	Uttar Pradesh
<b>62.</b>	1. Dr. Taju Gani Abdul Hakeem College, Vellore	Production of vaccine against tilapia parvovirus (TiPV) and its efficacy in protecting the fish from infection	Odisha
	2. Dr. Anirban Paul ICAR-Central Institute of Freshwater Aquaculture, Odisha		Odisha
<b>63.</b>	Dr. Hussain Bhukya Indian Institute of Science Education and Research Tirupati, Tirupati	Molecular basis for transcription regulation in bafilomycin biosynthesis	Andhra Pradesh
<b>64.</b>	Prof. Sharmistha Sinha Institute of Nano Science and Technology, Mohali	Next-Gen Bio-Nanoreactors: Harnessing Intrinsically Disordered Regions for Sustainable Industrial Biocatalysis	Punjab
<b>65.</b>	Dr. Paltu Kumar Dhal Jadavpur University, Calcutta	Efficient Biomanufacturing of Calcite from Waste Phosphogypsum and sequestered Atmospheric via a Novel Heterotrophic Non-Ureolytic Microbially Induced Carbonate precipitation Process for Agricultural Applications.	West Bengal
<b>66.</b>	Dr. Sarah Jaison PSGR Krishnammal College for Woman, Coimbatore	Role of Biofilms in Chromium Reduction and Microplastic Degradation in Tannery Contaminated Soils	Tamilnadu
<b>67.</b>	1. Dr. Prashant Singh	Integrating Phylogenomics and	Uttar

	Banaras Hindu University, Varanasi	Metabolomics: A Polyphasic Approach to Heterocytous Cyanobacterial Systematics and Functional Characterization	Pradesh
	2. Dr. Dhiraj P Dhotre National Centre for Cell Science, Pune, Maharashtra		Maharashtra
68.	Prof. Venkateswarlu Yarlagadda Indian Institute of Technology, Bombay	Untapped microbes of Indian origin as a source for the discovery of natural product antibiotics	Maharashtra
69.	Dr. Vengadesan Krishnan Regional Centre for Biotechnology, Faridabad	Characterization of novel sortase from thermophilic soil bacterium <i>Thermobifidifusca</i>	Haryana
70.	Dr. Avinash Sharma National Centre for Cell Science, Pune	Establishing a Comprehensive Database of Industrially Valuable Natural Products from NCCS Microbial Resources through Integrated Metagenomic and Whole Genome Sequencing	Maharashtra
71.	Dr. Tanmay Dutta Indian Institute of Technology, New Delhi	Investigation of the role of an ionizing radiation-induced small RNA DrsS in Mn(II) homeostasis in <i>Deinococcus radiodurans</i>	Delhi
72.	Dr. CH Ratnasekhar Central Institute of Medicinal and Aromatic Plants, Lucknow	Development of a handheld, non-invasive sensor-based model for on-site authentication and adulteration detection of essential oils	Uttar Pradesh
73.	Dr. Rajesh Kumar Ladher National Centre for Biological Sciences, Bangalore	Decoding Design Principles Guiding Tissue Shape and Pattern	Karnataka
74.	Prof. Kashyap Kumar Dubey Jawaharlal Nehru University, New Delhi	Study on the mechanism of light-mediated proteins in the regulation of morphology and lipstatin biosynthesis in <i>Streptomyces toxytricini</i>	Delhi

75.	Dr. Saloni Mathur, National Institute of Plant Genome Research, New Delhi	Defining the role of splice- variants of HSF2a and a long noncoding RNA in yield and thermotolerance in tomato	Delhi
76.	Dr. M Muthamilarasan, University of Hyderabad, Hyderabad	Delineating the role of SiSAP12, a novel stress-associated protein encoding gene from foxtail millet ( <i>Setaria italica</i> L.) during extreme heat stress conditions	Telangana
	Dr. Manoj Prasad, University of Delhi South Campus, New Delhi		Delhi
77.	Dr. Santosh Satbhai, Indian Institute of Science Education And Research, Mohali	Exploring the Role of PEP-PEPR Signaling in Shaping Plant Growth and Development under Iron Deficiency	Punjab
	Dr. Anurag Kashyap, Assam Agricultural University, Jorhat		Assam
78.	Dr. Chandan Sahi, Indian Institute of Science Education and	Mapping the JDP:Hsp70 chaperone network on the <i>Arabidopsis</i> ribosome-	Madhya Pradesh

	Research (IISER), Bhopal	Role in ribosome biogenesis	
79.	Dr.Panneerselvam Krishna Murthy, National Agri - Food Biotechnology Institute, Mohali	Characterization of saponin polymorphism in irradiation- induced TILLING population of soybean cultivar NRC-142	Punjab
	Dr.Vineet Kumar, ICAR- National Soybean Research Institute (formally Indian Institute of Soybean Research), Indore		Madhya Pradesh
80.	Dr. D K Venkata Rao, Central Institute of Medicinal And Aromatic Plants, RC Bengaluru	Engineering yeast phospholipid metabolism for increased production of high value triterpene, Glycyrrhetic acid	Karnataka
81.	Dr.DileepVasudevan, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram	Cryo-EM structure of a plant nucleoplasmin and its complex with nucleosome	Kerala
82.	Dr.AshwaniMathur, Jaypee Institute of Information Technology, Noida	Transcriptional Regulation Of Saponin Biosynthetic Pathway In Hydroponic Culture Of BacopaMonnieri	Uttar Pradesh
83.	Dr.Nasheeman Ashraf, CSIR - Indian Institute of Integrative Medicine, Canal Road, Jammu	Engineering Crocus apocarotenoid pathway for generating better quality and climate resilient “SMART SAFFRON”	Jammu & Kashmir
84.	Dr.Nagamani Sandra, Indian Agricultural Research Institute, New Delhi	Unraveling the etiology, characterization and seed transmission studies of new viruses associated with vein necrosis disease of soybean	Delhi
85.	Dr.Jebasingh Tennyson, Madurai Kamraj University, Madurai, Tamilnadu	Characterization of intrinsic disorder in Viral protein genome linked (VPg) of Cardamom mosaic virus	Tamilnadu
86.	Dr.Firoz Hossain, Indian Agricultural Research Institute, New Delhi	Validation of candidate gene(s) governing exceptionally higher prolificacy in ‘Sikkim Primitive’ – a unique maize landrace of North Eastern Himalayas and its introgression into elite inbreds through molecular breeding	Delhi
87.	Dr.Sribash Roy, University of Hyderabad. Hyderabad	Targeted manipulation of population specific DNA methylation induced by elevated CO <sub>2</sub> for trait improvement under climate change scenario	Telangana
88.	Dr.RamuVemanna, Regional Centre For Biotechnology, Faridabad	Studying the ribosomal RNA (rRNA)diversity, functional relevance of rRNA processing factor 2 (RPF2) in ribosome biogenesis, root, shoot development and drought stress tolerance in rice	Haryana
89.	Dr.AshveryaLaxmi, National Institute of Plant Genome	Exploring the role of energy signaling master regulator SNF- related Kinase 1	Delhi

	Research, New Delhi	(SnRK1) in phosphate starvation response	
90.	Dr. Vivek Dogra, Institute of Himalayan Bioresource Technology, Palampur (Himachal Pradesh)	Deciphering the stress-induced and chloroplast-triggered programmed cell death in <i>Arabidopsis thaliana</i>	Himachal Pradesh
91.	Dr. Yogesh Mishra, Banaras Hindu University, Varanasi	Molecular characterization of a legume lectin-like protein from <i>Arabidopsis thaliana</i> (AT5g03350 or AtLLP1) to uncover its role in abiotic stress mitigation and related signaling	Uttar Pradesh
92.	Dr. Anandita Singh, TERI School of Advanced Studies, New Delhi	Application of CRISPR-Cas9 in editing multicopy homologs of MIR160 & MIR167 (precursor and promoter sequences) in polyploid <i>Brassica juncea</i> : Technology demonstration for trait manipulation and functional analysis of miRNA genes in polyploids	Delhi
93.	Dr. Vikash Kumar Yadav, Goa University, Taleigao Plateau, Goa	Deciphering Chromatin Rewiring during Chickpea Seed Development	Goa
94.	Dr. Satinder Kaur, Punjab Agricultural University, Ludhiana	Enriching the rust resistance of wheat by mapping the novel leaf rust and stripe rust resistance from multiple wild progenitor and non-progenitor species	Punjab
95.	Dr. Sangeeta Paul, Indian Agricultural Research Institute, New Delhi	Development of engineered <i>Azotobacter</i> with super-efficient biofertilizer activity	Delhi
96.	Dr. Subhadeep Chatterjee, Centre For DNA Fingerprinting and Diagnostics, Hyderabad	Decoding the Intricacies of Iron Homeostasis and Regulation in Bacterial Plant Pathogens <i>Xanthomonas</i> : Unravelling Mechanisms for Enhanced Understanding	Telangana
97.	Dr. Alok Sinha, National Institute of Plant Genome Research, New Delhi	Engineering rice for improved grain yield under drought stress conditions by modifying the OsNAC44 transcription factor gene	Delhi
98.	Dr. Manoj Majee, National Institute of Plant Genome Research, New Delhi	Investigation of the molecular intricacies, mechanisms and role of Methionine Sulfoxide Reductase A (MSR A) in preserving seed vigor and viability in rice during seed aging and storage	Delhi
99.	Dr. Mahesh Rao, National Institute for Plant Biotechnology, New Delhi	Deciphering the genetics and molecular mapping of wide compatibility trait using <i>Brassica rapa</i> var. yellow sarson 'NRCPB rapa 8' genotype for accelerating the pre-breeding program	Delhi

		in the rapeseed mustard	
100.	Prof.Girdhar Pandey, Delhi University, South Campus, New Delhi	Integrating calcium and reactive oxygen species signaling for the development of stress tolerance rice using CRISPR/Cas9 mediated genome editing approach	Delhi
101.	Dr. Harsh Chauhan, Indian Institute Of Technology, Roorkee	Molecular characterization of classical and dual function Purine nucleoside phosphorylases (PNPase) providing abiotic and biotic stress tolerance in plants	Uttarakhand
102.	Dr.SudhaRajamani, Indian Institute of Science Education and Research (IISER), Pune	Implications of membrane heterogeneity for the emergence and evolution of early cellular life	Maharastra
103.	Dr. Rajeev NayanBahuguna, National Agri-Food Biotechnology Institute (NABI), Mohali	Investigating the genetic basis of variation in yield and grain nutrient profile in rice under elevated day and night temperature	Punjab
104.	Dr.Pinky Agarwal, National Institute of Plant Genome Research, New Delhi	Elucidation of equilibrating factor/s for two competing transcription factors, in order to target rice grain trait improvement	Delhi
105.	Dr.Hasthi Ram, National Institute of Plant Genome Research, New Delhi	Functional characterization of genome-edited lines for discovering novel genes regulating grain mineral contents in Indica rice	Delhi
106.	Dr. Kumar Durgesh, Indian Agricultural Research Institute, Pusa Campus, New Delhi	High resolution mapping of cleistogamous trait for ensuring genetic purity in pigeonpea [ <i>Cajanuscajan</i> (Millsp.)] cultivars	Delhi
107.	Dr.Jagadis Gupta Kapuganti, National Institute of Plant Genome Research, New Delhi	Large scale demonstration of innovative and cost-effective technology to enhance shelf life of fruits and vegetables	Delhi
108.	Dr.Bhupendra Chaudhary, Jawaharlal Nehru University, New Delhi	Elucidating Auxin Response Factors (ARFs) targeted SMALL AUXIN-UP RNAs (SAURs)-dependent Auxin Signalling Network during Cotton Fiber Development	Delhi
109.	Dr.Gunjan Tiwari, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow	Core construction and genome-wide association for unraveling genetic architecture of agrochemical traits in medicinal plant opium poppy ( <i>Papaver somniferum</i> L.)	Uttar Pradesh
	Dr.Nisha Singh, Gujarat Biotechnology University, Gandhinagar, Gujarat		Gujarat
110.	Dr.JitenderGiri, National Institute of Plant Genome Research, New Delhi	Understanding how anatomical adaptations help root penetration in hard and dry soils.	Delhi
111.	Dr.Amaresan N, UkaTarsadia University, C G Bhakta Institute	Investigation of predation pressure on physiology and gene expression levels	Gujarat

	of Biotechnology, Bardoli, Gujarat	of known plant growth promoting bacteria and harnessing its interaction under field condition	
112.	Prof.Ashis Kumar Nandi, Jawaharlal Nehru University, New Delhi	Transcriptional regulation of RSI1/FLD for infection memory development in plants	Delhi
113.	Dr.SaurabhRaghuvanshi, Delhi University, South Campus, New Delhi	MicroRNA mediated regulation of plant cytoskeleton dynamics during plant stress	Delhi
114.	Dr.SaravananMatheshwaran, Indian Institute of Technology, Kanpur	Deciphering the role of Ustilagomaydis SWR1 chromatin remodeler in melanin biosynthesis, morphogenesis, and virulence mechanism	Uttar Pradesh
115.	Prof.Baishnab C Tripathy, Sharda University, Greater Noida	Enhancing photosynthesis potential, crop yield and conferring tolerance to abiotic stresses by overexpression of different isoforms of Protochlorophyllide Oxidoreductase in rice	Uttar Pradesh
116.	Dr.Vandna Rai, National Institute for Plant Biotechnology, New Delhi	Morphophysiological and molecular alterations of the root system of contrasting genotypes of rice under different salt stress conditions	Delhi
117.	Dr.NandulaRaghuram, Guru Gobind Singh Indraprastha University, New Delhi	CRISPR-Cas9-mediated Targeted Genome Editing for Nitrogen Use Efficiency (NUE) in Rice	Delhi
118.	Dr. Puja Khare, Central Institute of Medicinal And Aromatic Plants, Lucknow	Assessment of compatibility and immobilization of organophosphorus - degrading bacteria on biochar for rapid degradation of pesticides and soil remediation	Uttar Pradesh
119.	Dr.SouravDatta, Indian Institute of Science Education and Research (IISER), Bhopal	Role of Light and DNA damage response in countering ABA-mediated seedling growth arrest	Madhya Pradesh
120.	Dr. Ramesh V Sonti, International Centre for Genetic Engineering & Biotechnology, New Delhi	Understanding interaction between rice and <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> (Xoo) effector protein XopQ	Delhi
121.	Dr.Subhra Chakraborty, National Institute of Plant Genome Research, New Delhi	Deciphering role of post-translational modifications and plasma membrane and auxin response regulator cross-talk in chickpea wilt disease	Delhi
122.	Dr.Pallavi Sinha, IRRI South Asia Hub, Hyderabad	Haplotype-Based Mid-Density panel for genomics and breeding applications in rice (HaploPanel)	Telangana
123.	Dr.Rupam Kumar Bhunia, National Agri-Food Biotechnology Institute (NABI), Mohali	Genetic dissection of rancidity and goitrogenic c-glycosyl flavone biosynthesis genes to enhance the shelf-life and nutritional quality of pearl	Punjab

	Dr.RamuVemanna, Regional Centre for Biotechnology, Faridabad	millet flour	Haryana
124.	Dr.ShivaprasadPadubidri, National Centre for Biological Sciences, Bangalore	Molecular mechanisms involved in Histone variant H4.V mediated processes in rice endosperm development	Karnataka
125.	Dr.AashishRanjan, National Institute of Plant Genome Research, New Delhi	Understanding the cellular and genetic regulation of leaf thickness, a key determinant of plant performance	Delhi
126.	Dr.Sabhyata Bhatia, National Institute of Plant Genome Research, New Delhi	Functional characterization of genes governing seed yield in lentil ( <i>Lens culinaris</i> )	Delhi
127.	Dr.Charanpreet Kaur, National Agri-Food Biotechnology Institute (NABI), Mohali	Microbial solutions for Punjab's fertilizer crisis: Enhancing soil ecology and crop yields	Punjab
128.	Dr.Vineet Gaur, National Institute of Plant Genome Research, New Delhi	Decoding At-HIGLE: Insights into Plant SLX1 Resolvase Regulation	Delhi
129.	Prof.Mukesh Jain, Jawaharlal Nehru University, New Delhi	Single-cell resolution regulatory landscape of drought stress response in chickpea roots	Delhi
130.	Dr. Amit Kumar Singh, National Bureau of Plant Genetic Resources, New Delhi	Development of a high-density SNP array for molecular breeding applications in mungbean ( <i>Vignaradiata</i> (L.) Wilczek)	Delhi
131.	Dr.Arun Kumar, Institute of Himalayan Biorseource Technology, Palampur	Investigating the thermosensing mechanism of <i>Camellia sinensis</i> mitochondrial superoxide dismutase underlining its activation and stability at temperature extremes	Himachal Pradesh
132.	Dr.Suvendra Kumar Ray, Tezpur University, Tezpur  Dr. Aditya Kumar, Tezpur University	Comparative genomic and functional analysis of multi-drug efflux pump homologs in <i>Ralstoniasolanacearum</i> F1C1: Insights into pathogenesis and virulence in tomato and eggplant	Assam
133.	Dr.Prabhu B Patil, Institute of Microbial Technology, Chandigarh	Investigation into the role of filamentous hemagglutinin and lipopolysaccharide as key determinants of tissues specificity in a rice pathogen	Chandigarh
134.	Prof.Supriya Chakraborty, Jawaharlal Nehru University, New Delhi	Elucidating the roles of a geminivirus susceptible factor in mediating viral pathogenesis	Delhi
135.	Dr.Vikas Jindal, Punjab Agricultural University, Ludhiana	G-Protein Coupled Receptors (GPCRs) regulating moulting as novel targets for development of next generation insecticide against pink bollworm, <i>Pectinophoragossypiella</i>	Punjab
	Dr.Soumya Sharma, ICAR-Indian Agricultural Statistics Research Institute, New Delhi		Delhi

136.	Dr. Bilal Ahmad Padder, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir - Srinagar	Effector based identification of the immunogenic players in <i>Phaseolus vulgaris</i> against <i>Colletotrichum lindemuthianum</i> : Bridging Basic Research and Translational Applications for Anthracnose Resistance	Jammu & Kashmir
137.	Dr. Amey Gurudas Redkar, National Center for Biological Sciences, Tata Institute of Fundamental Research - Bangalore	Functional characterization of virulence determining effectors in <i>Fusarium oxysporum</i> to facilitate vascular-wilt resistance	Karnataka
138.	Dr. Amit Kumar Rai, National Agri-Food Biotechnology Institute (NABI), Mohali	Production, characterization, and bioactivity evaluation of antihypertensive and antidiabetic compounds produced during fermentation of selected millet varieties using sequential fermentation by defined microbial consortia	Punjab
139.	Dr. Koushik Mazumder, National Agri-Food Biotechnology Institute (NABI), Mohali	Valorisation of pectic oligosaccharides from juice industry waste for functional food product development	Punjab
140.	Dr. Rakesh Shamsunder Joshi, CSIR-National Chemical Laboratory, Pune	Engineering mini-protein allatostatin receptors modulator for <i>Spodoptera frugiperda</i> management	Maharashtra
	Dr. Ashutosh Srivastava, Indian Institute of Technology, Gandhinagar		Gujarat
141.	Prof. Ashwani Kumar Thakur, Indian Institute of Technology, Kanpur	Decrypting the pathways of amyloid composite structure formation in seed storage protein bodies of legumes	Uttar Pradesh
142.	Dr. Sreeramaiah N Gangappa, Indian Institute of Science Education and Research, Kolkata	Unravelling the molecular mechanism through which E3 ubiquitin ligases, RDUF1 and RDUF2, inhibit PIF3 and PIF4 function to promote seedling photomorphogenesis	West Bengal
143.	Dr. Sanjana Negi, National Agri-Food Biotechnology Institute, Mohali	Fortifying banana with polyphenols: Unlocking superior antioxidant benefits	Punjab
144.	Dr. Monica Sharma, Dr. YS Parmar University of Horticulture and Forestry, Solan	Rhizospheric consortium based approach for management of wilt and damping-off in white sandalwood in Shivalik and Dhauladhar ranges of Himachal Pradesh	Himachal Pradesh
145.	Dr. Sathishkumar Ramalingam, Bharathiar University, Coimbatore	Enhancing the production of high value Therapeutics (Carnosol) using metabolically engineered cell suspension cultures of <i>Salvia officinalis</i>	Tamil Nadu
146.	Prof. Tanushri Kaul, International	Revolutionizing cotton traits with	Delhi

	Centre for Genetic Engineering & Biotechnology, New Delhi	CRISPR/Cas based genome editing for enhanced insect-resistant and premium fibre	
147.	Dr. Rahul Kumar, University of Hyderabad, Hyderabad	Generation and systemic analysis of CRISPR mutants of tomato IAA-amidosynthetase GH3 genes for their roles in fruit set and thermotolerance.	Telangana
148.	Dr. Ajay Kumar Pandey, National Agri - Food Biotechnology Institute, Mohali	Dissecting wheat tissue-type specific iron homeostatic transcriptional responses mediated by basic helix loop helix protein	Punjab
149.	Dr. Debasis Chattopadhyay, National Institute of Plant Genome Research, New Delhi	Development of low pod dehiscent and low saponinricebean by gene editing	Delhi
150.	Dr. Rakesh Kumar Shukla, Central Institute of Medicinal and Aromatic Plants, Lucknow	Molecular characterization of microRNA(s) involved in regulation of secondary metabolic pathway in <i>Bacopamonnieri</i>	Uttar Pradesh
151.	Dr. Debabrata Sircar, Indian Institute of Technology, Roorkee	Development of an AI-controlled electronic nose sensor for monitoring apple aroma profiles during harvest and storage: An easy-to-use non-destructive technology for assessing apple freshness and quality	Uttarakhand
	Dr. Javid Iqbal Mir, ICAR-Central Institute of Temperate Horticulture, Srinagar		Jammu & Kashmir
152.	Dr. Manoj K Sharma, Jawaharlal Nehru University, New Delhi	Dissecting functional relevance of sorghum MYB032/019 for yield optimization under constrained environmental conditions	Delhi
153.	Dr. Sudhakar Reddy Palakolanu ICRISAT, Hyderabad	Gene Editing of Candidate Genes in Sorghum to Modulate Cyanogenesis for Enhanced Forage Quality	Telangana
154.	Dr. Sandeep Sharma BHU, Varanasi	Use of CRIPR/Cas9 gene editing technology for functional characterization of a putative cyclic nucleotide-gated channel gene for developing spot blotch resistant wheat genotypes	Uttar Pradesh
	Dr. Sundeep Kumar ICAR-NBPGR, New Delhi		Delhi
155.	Dr. Sreelakshmi Yellamaraju University of Hyderabad, Hyderabad	Enhancing Tomato Nutrient Quality by Targeting Carotenoid Degradation	Telangana
156.	Dr. Deepak Singh Bisht National Institute for Plant Biotechnology, New Delhi	Leveraging Wild Rice Genetic Resources to Identify and Characterize Genomic Loci Conferring Anaerobic Germination Tolerance, Early Seedling Vigor, and Root Plasticity for Adaptation to Dry Direct Seeding in Rice	Delhi
157.	Dr. Amar Pal Singh National Institute of Plant Genome Research, New Delhi	Deciphering the genetic basis of flower initiation and abortion under nitrogen deficiency in tomato	Delhi

158.	Dr. Annapurna Devi Allu, Indian Institute of Science Education and Research, Tirupati	Unravelling role of sensory-plastid driven retrograde grade signalling in modulating plant heat stress memory	Andhra Pradesh
159.	Prof. Irfan Ahmad Ghazi University of Hyderabad	Deciphering the arms race between Indian Xanthomonasoryzepv. oryzae and Oryza sativa for durable Bacterial Blight resistant rice: A Genomics based approach	Telangana
	Dr. Gouri Sankar Laha ICAR-Indian Institute of Rice Research, Hyderabad		Telangana
160.	Dr. Moumita Srivastava Rajiv Gandhi Centre For Biotechnology, Thiruvananthapuram	Defining the role of WRKY transcription factors in regulating Phytophthora capsici infection in black pepper	Kerala
161.	Dr. Anupama Ghosh Bose Institute, Kolkata	Investigating extracellular vesicles (EV) as carrier of cytoplasmic effector proteins of Ustilagomaydis to intracellular regions of the host cell through EV proteome study	West Bengal
162.	Dr. Kalika Prasad Indian Institute of Science Education and Research (IISER), Pune	Unitary principles associated with self- organized morphogenesis in plant regeneration: Integration of biochemical and mechanical cues	Maharashtra
163.	Prof. Rajesh Tandon University of Delhi, North Campus, New Delhi	Assessment of genome evolution, diversity, sexuality and conservation of rhodiola from the Indian Himalayan region	Delhi
164.	Dr. Jyothilakshmi Vadassery, National Institute of Plant Genome Research, New Delhi	Deciphering the Role of REPAT Proteins in the Insect Pest, Spodopteralitura as Effectors Targeting Host Immune Defenses During Herbivory	Delhi
165.	Dr. Ashwin N M R CSIR - National Chemical Laboratory (NCL), Pune	Development of a novel protein-based versatile biostimulant for inducing disease resistance in economically important crops	Maharashtra
	Dr. Ramesh Sundar A ICAR Sugarcane Breeding Institute, Tamil Nadu		TamilNadu
166.	Dr. Guru P N Central Institute of Post Harvest Engineering & Technology, Ludhiana	Development of Advanced Formulations of Coffee Furanone as a Potential Fumigant for Post-Harvest Pest Management	Punjab
	Dr. Rajashekhar Y Central Food Technological Research Institute, Mysore		Karnataka
167.	Dr. Gopaljee Jha National Institute of Plant Genome Research, New Delhi	Imparting sheath blight disease tolerance in rice through genome editing of susceptibility factor	TamilNadu
168.	Dr. Arul Loganathan Tamil Nadu Agricultural	Genome mapping for root apoplast barrier mediated salt tolerance in rice	

	University, Tamil Nadu	through QTL-Seq	
169.	Dr. Senthilkumar Muthappa National Institute of Plant Genome Research, New Delhi	Development of a rapid generation advancement protocol and image-based disease screening tool using a mutant population: an approach toward developing dry root rot-resistant chickpea under drought advancement and image-based screening under pre- disposing drought conditions	Delhi
170.	Dr. Monika Garg National Agri - Food Biotechnology Institute, Mohali	Functional evaluation and silencing of selected fructan content-related wheat genes, and estimation of fructan prebiotic/bloating potential	Punjab
171.	Dr. Deepak Kumar Banaras Hindu University, Varanasi	Decoding the Roles of Prion-Like SEUSS Proteins in Thermosensory Responses in Potato ( <i>Solanum</i> <i>tuberosum</i> )	Uttar Pradesh
172.	Dr. Vinay Kumar CUP, Bathinda	Mining and functional characterization of glucosyltransferase involved in C- glycosylation of Flavanone in Pearl millet using the CRISPR-Cas9 Technology for Human Health Benefits	Punjab
173.	Dr. Kumar K K Tamil Nadu Agricultural University, Tamil Nadu	Genome editing elite tomato varieties for enhancing $\gamma$ -Aminobutyric acid (GABA) in fruits	TamilNadu
174.	Dr. Prasannakumar N R ICAR- IIHR, Karnataka	Exploring the Crosstalk between Autophagy and Apoptosis in Bemisiatabaci (Hemiptera: Aleyrodidae) and Its Role in the Translocation and Transmission of Tomato Leaf Curl Virus	Karnataka
	Dr. Ravi Manjithaya Jawaharlal Nehru Center for Advanced Scientific Research, Karnataka		Karnataka
175.	Dr. Vanita Chandel Amity University, Noida	Development of CRISPR/cas-based Lateral Flow Detection assays for Major Apple Viruses and their Field Validation	Uttar Pradesh
176.	Dr. Ashish Sharma, Central Institute of Medicinal and Aromatic Plants, Lucknow	Augmenting Fragrance molecules production in Roses through the enhancement of precursor via exogenous peptide application	Uttar Pradesh
177.	Prof. Usha Vijayraghavan Indian Institute of Science, Bengaluru	Investigating molecular mechanisms regulated by rice RFL as a developmental regulator of rice plant architecture, growth and yield	Karnataka
178.	Dr. Nitika Sandhu, Punjab Agricultural University, Ludhiana	From Genomic Mapping to Mechanisms: Unlocking Seedling Vigor for Deep-Sown Direct seeded rice	Punjab
179.	Dr. Tapan Kumar Mondal National Institute for Plant	Understanding the molecular mechanism of reproductive stage	Delhi

	Biotechnology, New Delhi	specific salinity-responsive novel circRNA-miRNA-mRNA module of rice	
180.	Dr. Surekha Katiyar Agarwal, University of Delhi, South Campus, New Delhi	Leveraging CRISPR-based Genome Editing to Reprogram Simultaneous Expression of Two Tetraspanins for Enhanced Drought Resilience in Rice.	Delhi
181.	Dr. Prema G Vasudev Central Institute of Medicinal and Aromatic Plants, Lucknow	Structural and functional characterization of putative cystine-knotted alpha-amylase inhibitors from <i>Rauvolfia serpentina</i>	Uttar Pradesh
182.	Dr. Ronita Nag Chaudhuri St. Xavier's College, Kolkata	Molecular mechanism of ABI3-mediated regulation of root architecture in <i>Arabidopsis</i> and its implication in drought stress response: translation of the knowledge to rice	West Bengal
183.	Dr. Akanksha Singh CSIR- Central Institute of Medicinal and Aromatic Plants, Lucknow	Antimicrobial Peptides from Medicinal and Aromatic Plant Microbiomes for the Management of Phytopathogens	Uttar Pradesh
184.	Dr. Isha Sharma Central Institute of Medicinal And Aromatic Plants, Lucknow	Integrating Autophagy and Light Signaling for Enhanced Secondary Metabolite Production in German Chamomile and Tobacco	Uttar Pradesh
185.	Dr. Rohit Joshi Institute of Himalayan Bioresource Technology, Palampur	Exploring the Cold-Adaptive Signaling Cascade in High-Altitude medicinal plant <i>Nardostachys jatamansi</i>	Himachal Pradesh
186.	Dr. Rajesh Kumar Singh Institute of Himalayan Bioresource Technology, Palampur	Unraveling the Sweet Symphony: Molecular Insights into Sugar Allocation and Transport Mechanisms in Saffron Corm Development Under Varying Environmental Conditions	Himachal Pradesh
187.	Dr. Rajiv Kumar CSIR – Institute of Himalayan Bioresource Technology, Palampur	Deciphering the role of a membrane-localized PkPLAT domain-containing protein in high altitude adaptation and abiotic stress response in <i>Picrorhiza kurroa</i> ; an industrially important high altitude medicinal plant	Himachal Pradesh
188.	Dr. Manjusha Verma NBPGR, Delhi	Unveiling the Therapeutic Potential of <i>Momordica cochinchinensis</i> (Lour.) Spreng.: Metabolomic Insights into Antioxidant, Anti-Diabetic and Anti-Glioblastoma Activities	Delhi
	Dr. Ritu Kulshreshtha, IIT Delhi, Delhi		Delhi
	Dr. Sneha Murmu, IARI, Delhi		Delhi
189.	Dr. Vipin Hallan Institute of Himalayan Bioresource Technology, Palampur	Unravelling the molecular mechanism involving whitefly midgut in circulative and propagative transmission of tomato leaf curl Palampur virus, a bipartite	Himachal Pradesh

		begomovirus	
190.	Dr. Deeksha Joshi Indian Agricultural Research Institute, Pusa Campus, New Delhi	Unravelling the genetic and toxigenic profile of aflatoxigenic <i>Aspergillus</i> species associated with maize in India and its management through non- toxigenic <i>Aspergilli</i>	Delhi