Ongoing Projects under EFB-Biological Sciences

SN	PI	Project	State
1	Prof. Supratim Datta, IISER, Kolkata	Engineering of an novel enzymatic pathway to enable conversion of PET (Polyethylene terephthate) 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 Pseudomonas aeruginosa 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. Jagadish Hiremath, 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. Guhan Jayaraman, IIT Madras	Engineering Bacterial Chassis and Development of Bioprocess Strategies for Efficient Bioconversion of Lignocellulosic Sugars to Platform Chemicals	Tamil Nadu
11	Dr. Himanshu Sinha, IIT Madras	Exploring the adaptive potential of ribosomal protein variants to develop antifungal drug resistance	Tamil Nadu
12	Dr. Kuldeep Verma, CDFD, Hyderabad	Understanding the mechanosensing role of amoebic V-type H+ 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. Pinak iDey, 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 Saccharomyces cerevisiae	West Bengal
16	Dr. Amit Sharma, JMI, New Delhi	Modulations in the rate and the extent of light induced allosteryinphototropins to develop customized biological photoswitches	Delhi
17	Prof. Suneel Kateriya, JNU, New Delhi	Development of algal opto-biotechnological 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. Aarat Pratyaksh Kalra, IIT Delhi	Harnessing Proteins to Build All-Organic Solar Cells	Delhi
20	Dr. Gurpreet Kaur, 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 Aurantiochytrium sp. as an alternative to fish oil for enhancing Silver pompano nutrition	Kerala
	Dr. Martin Xavier, ICAR - CIFT, Cochin		Kerala
22	Dr. Preeti Srivastava, IIT, Delhi	Molecular and Structural insights into the regulation of a catabolic dsz operon	Delhi
	Dr. Neel Bhavesh, ICGEB, New Delhi		Delhi
23	Dr. Abhilash Patel, IIT, Kanpur	Development and Characterization of Regulatory Biomolecular Circuits for Plasmid Copy Numbers in Synthetic Biology	Uttar Pradesh
24	Dr. Md Sohail Akhtar, CDRI, Lucknow	Unraveling the novel interplay of ubiquitination in the regulation of gene expression	Uttar Pradesh
25	Prof. Radhakrishnan Mahalakshmi, IISER, Bhopal	Mechanistic Correlation of Human Mitochondrial Sorting and Assembly Machinery Biogenesis and Bioenergetics with Functional Regulators	Madhya Pradesh
26	Dr. Rajan Sankaranarayanan, 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. Sunita Kushwah, 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. Rajagopal Subramanyam, 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. Pradeep Verma, 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. Debabrata Patra, Institute of Nano Science and Technology, Mohali	Enzyme-powered fluidics: Transforming the landscape of molecular transport, on-chip bioassays and self-cleaning antimicrobial surfaces	Punjab
	Dr. Subhabrata Maiti, IISER, Mohali		Punjab
36	Dr. Abhrajyoti Ghosh, Bose Institute, Kolkata	Functional characterization and interaction of archaealprefoldin 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 Synthetic Cells	West Bengal
	Prof. Avik Samanta, IIT, Kharagpur		West Bengal
39	Dr. Devyani Haldar, 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. Tanweer 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 Pseudomonas aeruginosa for Drug Development and Bio-manufacturing.	Maharastra
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	*Elucidating the role of Cdc5/Prp19-associated complex in pre-mRNA splicing of highly intron-rich zoonotic parasite Toxoplasma gondii*	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. Saloni Mathur, National Institute of Plant Genome Research, New Delhi	Defining the role of splice- variants of HSFB2a and a long noncoding RNA in yield and thermotolerance in tomato	Delhi
49.	Dr. M Muthamilarasan, University of Hyderabad, Hyderabad	Delineating the role of SiSAP12, a novel stress-associated protein encoding gene from foxtail millet (*Setaria italica* L.) during extreme heat stress conditions	Telangana
	Dr. Manoj Prasad, University of Delhi South Campus, New Delhi		Delhi
50.	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
51.	Dr. Chandan Sahi, Indian Institute of Science Education and Research (IISER), Bhopal	Mapping the JDP:Hsp70 chaperone network on the Arabidopsis ribosome- Role in ribosome biogenesis	Madhya Pradesh
52.	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
53.	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, Glycyrrhetinic acid	Karnataka
54.	Dr. Dileep Vasudevan, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram	Cryo-EM structure of a plant nucleoplasmin and its complex with nucleosome	Kerala
55.	Dr. Ashwani Mathur, Jaypee Institute of Information Technology, Noida	Transcriptional Regulation Of Saponin Biosynthetic Pathway In Hydroponic Culture Of Bacopa Monnieri	Uttar Pradesh
56.	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
57.	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
58.	Dr. Jebasingh Tennyson, Madurai Kamraj University, Madurai, Tamilnadu	Characterization of intrinsic disorder in Viral protein genome linked (VPg) of Cardamom mosaic virus	Tamilnadu
59.	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
60.	Dr. Sribash Roy, University of Hyderabad. Hyderabad	Targeted manipulation of population specific DNA methylation induced by elevated CO2 for trait improvement under climate change scenario	Telangana

61.	Dr. Ramu Vemanna, 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
62.	Dr. Ashverya Laxmi, National Institute of Plant Genome Research, New Delhi	Exploring the role of energy signaling master regulator SNF- related Kinase 1 (SnRK1) in phosphate starvation response	Delhi
63.	Dr. Vivek Dogra, Institute of Himalayan Bioresource Technology, Palampur (Himachal Pradesh)	Deciphering the stress-induced and chloroplast-triggered programmed cell death in Arabidopsis thaliana	Himachal Pradesh
64.	Dr. Yogesh Mishra, Banaras Hindu University, Varanasi	Molecular characterization of a legume lectin-like protein from Arabidopsis thaliana (AT5g03350 or AtLLP1) to uncover its role in abiotic stress mitigation and related signaling	Uttar Pradesh
65.	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 Brassica juncea: Technology demonstration for trait manipulation and functional analysis of miRNA genes in polyploids	Delhi
66.	Dr. Vikash Kumar Yadav, Goa University, Taleigao Plateau, Goa	Deciphering Chromatin Rewiring during Chickpea Seed Development	Goa
67.	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
68.	Dr. Sangeeta Paul, Indian Agricultural Research Institute, New Delhi	Development of engineered Azotobacter with super-efficient biofertilizer activity	Delhi
69.	Dr. Subhadeep Chatterjee, Centre For DNA Fingerprinting and Diagnostics, Hyderabad	Decoding the Intricacies of Iron Homeostasis and Regulation in Bacterial Plant Pathogens Xanthomonas: Unravelling Mechanisms for Enhanced Understanding	Telangana
70.	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
71.	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
72.	Dr. Mahesh Rao, National Institute for Plant Biotechnology, New Delhi	Deciphering the genetics and molecular mapping of wide compatibility trait using Brassica rapa var. yellow sarson 'NRCPB rapa 8' genotype for accelerating the pre-breeding program in the rapeseed mustard	Delhi
73.	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

74.	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
75.	Dr. Sudha Rajamani, Indian Institute of Science Education and Research (IISER), Pune	Implications of membrane heterogeneity for the emergence and evolution of early cellular life	Maharastra
76.	Dr. Rajeev Nayan Bahuguna, 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
77.	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
78.	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
79.	Dr. Kumar Durgesh, Indian Agricultural Research Institute, Pusa Campus, New Delhi	High resolution mapping of cleistogamous trait for ensuring genetic purity in pigeonpea [Cajanus cajan (Millsp.)] cultivars	Delhi
80.	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
81.	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
82.	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 (*Papaver somniferum* L.)	Uttar Pradesh
	Dr. Nisha Singh, Gujarat Biotechnology University, Gandhinagar, Gujarat		Gujarat
83.	Dr. Jitender Giri, National Institute of Plant Genome Research, New Delhi	Understanding how anatomical adaptations help root penetration in hard and dry soils.	Delhi
84.	Dr. Amaresan N, Uka Tarsadia University, C G Bhakta Institute of Biotechnology, Bardoli, Gujarat	Investigation of predation pressure on physiology and gene expression levels of known plant growth promoting bacteria and harnessing its interaction under field condition	Gujarat
85.	Prof. Ashis Kumar Nandi, Jawaharlal Nehru University, New Delhi	Transcriptional regulation of RSI1/FLD for infection memory development in plants	Delhi
86.	Dr. Saurabh Raghuvanshi, Delhi University, South Campus, New Delhi	MicroRNA mediated regulation of plant cytoskeleton dynamics during plant stress	Delhi
87.	Dr. Saravanan Matheshwaran, Indian Institute of Technology, Kanpur	Deciphering the role of Ustilago maydis SWR1 chromatin remodeler in melanin biosynthesis, morphogenesis, and virulence mechanism	Uttar Pradesh
88.	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

89.	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
90.	Dr. Nandula Raghuram, Guru Gobind Singh Indraprastha University, New Delhi	CRISPR-Cas9-mediated Targeted Genome Editing for Nitrogen Use Efficiency (NUE) in Rice	Delhi
91.	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
92.	Dr. Sourav Datta, 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
93.	Dr. Ramesh V Sonti, International Centre for Genetic Engineering & Biotechnology, New Delhi	Understanding interaction between rice and *Xanthomonas oryzae*pv. *oryzae* (Xoo) effector protein XopQ	Delhi
94.	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
95.	Dr. Pallavi Sinha, IRRI South Asia Hub, Hyderabad	Haplotype-Based Mid-Density panel for genomics and breeding applications in rice (HaploPanel)	Telangana
96.	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 millet flour	Punjab
	Dr. Ramu Vemanna, Regional Centre for Biotechnology, Faridabad		Haryana
97.	Dr. Shivaprasad Padubidri, National Centre for Biological Sciences, Bangalore	Molecular mechanisms involved in Histone variant H4.V mediated processes in rice endosperm development	Karnataka
98.	Dr. Aashish Ranjan, National Institute of Plant Genome Research, New Delhi	Understanding the cellular and genetic regulation of leaf thickness, a key determinant of plant performance	Delhi
99.	Dr. Sabhyata Bhatia, National Institute of Plant Genome Research, New Delhi	Functional characterization of genes governing seed yield in lentil (*Lens culinaris*) (	Delhi
100.	Dr. Charanpreet Kaur, National Agri-Food Biotechnology Institute (NABI), Mohali	Microbial solutions for Punjab's fertilizer crisis: Enhancing soil ecology and crop yields	Punjab
101.	Dr. Vineet Gaur, National Institute of Plant Genome Research, New Delhi	Decoding At-HIGLE: Insights into Plant SLX1 Resolvase Regulation	Delhi
102.	Prof. Mukesh Jain, Jawaharlal Nehru University, New Delhi	Single-cell resolution regulatory landscape of drought stress response in chickpea roots	Delhi
103.	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 (*Vigna radiata* (L.) Wilczek)	Delhi
104.	Dr. Arun Kumar, Institute of Himalayan Bioresource Technology, Palampur	Investigating the thermosensing mechanism of *Camellia sinensis* mitochondrial superoxide dismutase underlining its activation and stability at temperature extremes	Himachal Pradesh

105.	Dr. Suvendra Kumar Ray, Tezpur University, Tezpur Dr. Aditya Kumar, Tezpur University	Comparative genomic and functional analysis of multi-drug efflux pump homologs in *Ralstonia solanacearum* F1C1: Insights into pathogenesis and virulence in tomato and eggplant	Assam
106.	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
107.	Prof. Supriya Chakraborty, Jawaharlal Nehru University, New Delhi	Elucidating the roles of a geminivirus susceptible factor in mediating viral pathogenesis	Delhi
108.	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, *Pectniophora gossypiella*	Punjab
	Dr. Soumya Sharma, ICAR-Indian Agricultural Statistics Research Institute, New Delhi		Delhi
109.	Dr. Bilal Ahmad Padder, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir - Srinagar	Effector based identification of the immunogenic players in Phaseolus vulgaris against *Colletotrichum lindemuthianum*: Bridging Basic Research and Translational Applications for Anthracnose Resistance	Jammu & Kashmir
110.	Dr. Amey Gurudas Redkar, National Center for Biological Sciences, Tata Institute of Fundamental Research - Bangalore	Functional characterization of virulence determining effectors in *Fusarium oxysporum* to facilitate vascular-wilt resistance	Karnataka
111.	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
112.	Dr. Koushik Mazumder, National Agri-Food Biotechnology Institute (NABI), Mohali	Valorisation of pectic oligosaccharides from juice industry waste for functional food product development	Punjab
113.	Dr. Rakesh Shamsunder Joshi, CSIR-National Chemical Laboratory, Pune	Engineering mini-protein allatostatin receptors modulator for *Spodoptera frugiperda* management	Maharashtra
	Dr. Ashutosh Srivastava, Indian Institute of Technology, Gandhingar		Gujarat
114.	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
115.	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
116.	Dr. Sanjana Negi, National Agri-Food Biotechnology Institute, Mohali	Fortifying banana with polyphenols: Unlocking superior antioxidant benefits	Punjab
117.	Dr. Monica Sharma, Dr. YS Parmar University of Horticulture and Forestry, Solan	Rhizosphericconsortium based approach for management of wilt and damping-off in white sandalwood in Shivalik and Dhauladhar ranges of Himachal Pradesh	Himachal Pradesh

118.	Dr. Sathishkumar Ramalingam, Bharathiar University, Coimbatore	Enhancing the production of high value Therapeutics (Carnosol) using metabolically engineered cell suspension cultures of *Salvia officinalis*	TamilNadu
119.	Prof. Tanushri Kaul, International Centre for Genetic Engineering & Biotechnology, New Delhi	Revolutionizing cotton traits with CRISPR/Cas based genome editing for enhanced insect-resistant and premium fibre	Delhi
120.	Dr. Rahul Kumar, University of Hyderabad, Hyderabad	Generation and systemic analysis of CRISPR mutants of tomato IAA-amido synthetase GH3 genes for their roles in fruit set and thermotolerance. (BT/PR54571/BSA/33/310/2024)	Telangana
121.	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
122.	Dr. Debasis Chattopadhyay, National Institute of Plant Genome Research, New Delhi	Development of low pod dehiscent and low saponin ricebean by gene editing	Delhi
123.	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 *Bacopa monnieri*	Uttar Pradesh
124.	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