2023-2024

Centre Of Excellence for Microbial and Plant Biotechnology

(CEMAP)

Index

Center Highlights:

Extramural Research Grants: Rs. 530.86 lakhs, funded by Department of Biotechnology (DBT), Department of Science & Technology (DST) & Department of Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homoeopathy (AYUSH), Ministry of Forest and Environment, Govt. of India and Council of Science and Technology, Govt. of Uttar Pradesh. [*Please see Annexure 1*]

Research Fellowships:

Students from the department have received Women Scientists Project, Post-doctoral Fellowship, DST-INSPIRE Fellowship, ICMR Fellowship and DBT Fellowships amongst others.

Research focus: Novel bioproducts for health, environment, food and agriculture

Products in research/proof-of-concept/scaling up stages:

Health:

- Purification and profiling of antimicrobial, anticancer and antioxidant compounds from natural sources
- Formulations for respiratory diseases
- Formulations for CNS disorders
- Formulations for immune-boosters
- Formulations for skin cancer
- Design and Fabrication of biosensors for lifestyle disease early prognosis

Environment:

- Surfactants,
- Enzymes for refining of fuel,
- Organic and inorganic pollutant removal,
- Bioremediation of emerging pollutants including plastic waste
- Development of electrochemical biosensors for pollutant detection

Food & Agriculture:

- Plant growth promoting microbes based Bioinoculants (biofertilizers, biopesticides)
- Hydroponics of medicinal plants
- Endophytes to enhance crop productivity
- Microbial derived food flavors
- Biopolymers (production and characterization of microbial polymers: Bacterial cellulose & Fungal chitosan and their applications)
- Probiotics
- Development of novel functional food product
- Bacterial profiling of fermented food

Innovative research strategies:

- Novel strategies to elicit production of natural products for health, environmental remediation and industry – Antimicrobials, Surfactants, Enzymes, Remediating pollutants, Food flavors, Nutraceuticals, Probiotics, Biopolymers

- Novel functional food and Electrochemical detection off flavors
- Development of nano formulations for respiratory, neurological disorders and skin cancer using natural products
- Eliciting enhanced production of the metabolites
- Culture-independent approaches to elicit metabolite production
- Development of novel probiotic formulations and food flavors for food industry
- In silico approaches in tandem with wet lab research to shorten time period for shortlisting compounds of interest
- Development of novel functional food product
- Production of wealth from waste: pectin in food, enzymes in food and feed industry, Textile Industry
- Food Fortification strategies
- Exploring bioremediation and phytoremediation strategies to mitigate organic and inorganic pollutants from soil and water

Innovative and combination approaches using microorganisms (bioremediation) and plants (phytoremediation) for emerging pollutants – pharmaceutical and personal care products, pesticides, and heavy metals thereby leading to reclamation of wetland and agriculture habitats and soil, initially testing at field scale levels, which can further be proposed at policy level.

Equipment: *Annexure 2*

Conferences/Workshop/FDP organized: *Annexure 3*

Inter Institutional Collaborations: *Annexure 4*

Publications: *Annexure 5*

- **In Journals:** 259
- **In Conferences (Abstracts/Full length papers):** 379
- **GenBank submissions:** 57
- **Books:** 9
- **Book chapters:** 131

Resource Development: *Annexure 6*

- **Ph.D.:** Completed and Ongoing
- **Master's thesis / Dissertation:** M. Sc., M. Tech., Int. M. Tech.Completed and Ongoing

Future Plans:

- Procurement of equipment to achieve objectives: HPLC/UPLC-Mass Spectrometer Short-term and Certificate courses on Intellectual Property Rights, Public Health
- Workshops on developing and formulating biofertilizers, Organic farming, use of Bioinformatics tools
- Conduct Webinars on the above and upcoming research areas related to agriculture Awareness Program (1-2 weeks) for school students
- Filing of patents application on the basis of the products we develop

Research Focus Areas

Understanding of emerging pollutants such as Pharmaceuticals and Personal Care Products (PPCPs), antimicrobials and other similar pharmaceutical pollutants, and heavy metals that are discharged into the environment pose a serious threat due to uptake by plants and animals. Their effects and mitigation strategies are being focused on.

Ability of native plant growth promoting microorganisms (PGPMs) are being evaluated to offer holistic plant growth benefits (providing nutritional benefits along with resistance to soil pathogens, and help reclaim agriculture soils containing residual pesticides). A consortium of PGPM is developed that can be used as bioinoculant (biofertilisers, biopesticides) to improve agriculture productivity. Ability of select PGPM to remediate organic pollutants in agriculture soils is also being explored.

Microbes (bacteria/actinomycetes) are being screened from niche habitats (desert/hydrocarbon-polluted soil) for isolating antibiotics, biosurfactants, enzymes and are also being characterized to study taxonomic diversity. Industrial enzymes being studied to obtain improved properties for technical applications are: phytase (phosphate utilization properties for fish/poultry feed), tannase (treatment of industrial effluents), protease, keratinase (feather degradation property for solid waste management), tannase (for tea processing, effluent treatment, juice processing) and amylase (starch desizing in textile industry). Novel bacteria capable of producing industrially important natural products have been characterized.

Research groups in the department are actively working on certain other important bio- products viz. food flavours (vanillin), biopolymers (resistant starch from elephant foot and chitosan from fungi, bacterial cellulose), antibiotics and other by-products (gallic acid). Novel functional food product development, Probiotic formulations are being developed using novel microorganisms and those exhibiting resistance to gastric digestion.

New structurally diverse natural products of industrial importance (increasing shelf life of fruits healthcare - drugs, and environmental remediation- enzymes, biosurfactants) are being studied to address the need for newer molecules with better target profiles. Natural products from plants are being evaluated for respiratory diseases, neurological disorders, diabetes and skin cancer. The evaluated products are then being translated into nano formulations to enhance their efficacy, targetability with reduced toxicity. Active packaging biodegradable films are also being developed.

Isolation and identification of microorganism for the bioremediation of sites contaminated with poly-aromatic compounds is being studied. Microbial (ex. *Pseudomonas putida*) ability for tertiary treatment of paper mill effluent has been studied by applying sequential treatment composed of two-step chemical precipitation in order to meet discharge limits for various environmental contaminants.

Isolation of novel strains of bacteria especially lactic acid bacteria from fermented foods and evaluation of the novel strains for the probiotic properties. Currently research focuses on development of novel functional foods, with prebiotic properties, which could improve the quality of life by stimulating probiotics growth in gut and reduce the dependence on drugs having high cost and side effects.

Biorefining, involving biocatalysts in the form of whole cell microbes or enzymes derived from native sources is being experimented with, to remove nitrogen and sulfur/aromatic content present in fossil fuels. Research comprises isolation of microorganisms capable of expressing genes involved in the degradation of contaminants present in fossil fuels.

Faculty Profile

- **Prof. Pammi Gauba, Head, Department of Biotechnology**

  Her research focuses on the optimization of various bioremediation and phytoremediation measures to render soil free from organic and inorganic contamination and use of different strains of yeast, bacteria and fungi as chief sources for bioremediation and potential grass, legumes and some plant species for phytoremediation. Increasing human activities have led to an increase in pollution and accumulation of toxic chemicals in air, soil, water etc. Heavy metals have also accumulated in agricultural soils leading to biomagnification, which is a challenge for scientists. This problem has led to an increase in the heavy metal toxicity in raw herbs which are being widely used worldwide as phytopharmaceuticals.

- **Prof. Neeraj Wadhwa, Professor**

  She works in the field of waste material management by developing processes to convert wastes from food processing industries into valuable products. These waste materials are biodegradable and organic in nature and their improper disposal can create environmental problems. A biological ecofriendly method of retting has been proposed where pectinases produced by the endophytic microorganisms of banana pseudo stem can be used to separate the fiber bundles of cellulose. Therefore, modified processing methods can generate valuable bio products (like smoother banana fiber and pectin from retting liquor. Keratinous waste like feathers from poultry processing plant can be degraded completely by novel keratinase producing bacteria isolated from soil. Developing New food products and edible active packaging films that are environmentally friendly, abundant biodegradable renewable natural polymers are her other areas of interest. Other research interest includes Study role of enzymes in the remediation of polluted environments It is well known that non-biodegradable/toxic compounds are difficult to treat with biological treatment procedures alone. These contaminants are non-biodegradable and have been linked to cancer, mutagenesis, and long-term toxicity. Enzymes have a lot of potential for transforming and detoxifying harmful chemicals since they do so at a detectable rate. Hydrolases, dehalogenases, transferases, and oxidoreductases are the most representative enzyme classes in the rehabilitation of polluted environments.

- **Prof. S. Krishna Sundari, Professor**

  Research interests include plant-microbe interactions, development of bioinoculants for sustainable agriculture, mycorrhizae research, bioactive compounds from fungi, microbial biodiversity profiling and bioremediation of organic pollutants including pesticides by employing plant growth promoting microorganism. Prof. Krishna Sundari has so far successfully carried out 4 DBT funded projects with a cumulative value of more than 1.5Crore rupees. Microbial Biotechnology lab was developed with project supported funds and also a green-house is established to facilitate plant microbe-based studies. The DBT funded projects focus on development of microbial consortia that provides dual benefits of rhizoremediation of residual pesticide along with plant growth support, exploring molecular mechanism of pesticide degradation in fungal and bacterial isolates. Her work also focuses on generating value-added products by utilizing agricultural wastes. Industrially important enzymes like tannase and pharmaceutically important products like gallic acid are researched upon. Another evolving concept that her lab is concentrating up on is about exploring the impact of toxic leachates from Plastics subjected to environmental stress.

- **Prof. Indira P. Sarethy, Professor**

  Her research is focused on the natural products (for therapeutic and industrial applications) from microbial and plant biodiversity. Based on a culture-dependent approach, microorganisms from niche habitats (desert, forest, limestone rock, monuments and endophytic) are identified and characterized for bioactive compounds. Metagenomics-based approaches focus on eliciting production of natural products from the environmental DNA. The work is targeted towards taxonomically characterizing and studying microbial diversity for products of use in environment waste management and of industrial importance - anti- microbial metabolites, biosurfactants, anti-oxidants and enzymes. The key findings of her research are characterization of new antimicrobial and antioxidant compounds, taxonomical characterization of novel actinobacterial taxa from the Thar Desert, identification of metabolites such as biosurfactants, enzymes and siderophores and cellulase production for environmental waste management.

- **Prof. Rachana, Professor**

  Prof. Rachna ‘s work is aimed at establishing the mechanism of action of the herbal products in the field of diabetes, respiratory disorders like, ARDS asthma, skin cancer, and neurological disorders and develop novel therapeutics for the same. The research also focuses on the medicinal herbs for their preventive and therapeutic potential in case of tobacco smoke induced toxic conditions as well. The herbs which are majorly worked upon during her research are: Salacia oblonga, Adhatoda vasica, Ginkgo biloba, Picrorhiza kurroa, Punica granatum, Musa paradisiacal, Citrus limetta Rose, Amaltas, Marigold, Jasmine, Kaner etc. She is also working with targeted drug delivery using micro/nano formulations. Her research targets to establish the mechanism of action of the ―Old Great Indian Herbal medicines so that they would be globally accepted

- **Dr. Ashwani Mathur, Associate Professor**

  The research conducted by Dr. Ashwani Mathur focuses towards exploring the role of bioprocess parameters in improving the yield of primary and secondary metabolites. He is actively involved in studies that are based on optimization of culture conditions with various prokaryotic and eukaryotic systems primarily medicinal plants for therapeutically important phytocompounds production. The three such plants in focus are *Bacopa monnieri, Humulus lupulus and Selaginella bryopteris*. An international collaboration project, jointly with Prof Pammi Gauba is focused towards development of non-dairy probiotics juice and evaluation of their therapeutic potential. The thrust is also focused toward environmental sustainability solutions and developing sensors for pollutant detection. The doctoral research work is focused towards exploring the use of hydroponics technique for medicinal plant cultivation and sensor-based detection of pollutants in natural habitats.

- **Dr. Smriti Gaur, Associate Professor**

  The broad area of Dr. Smriti Gaur ‘s work is in the field of probiotics. The research focuses on isolation of novel strains of bacteria especially lactic acid bacteria from fermented foods which have not yet been explored for their microbial population. These bacteria are fast gaining importance in the global arena as probiotics for human use, and hence, new isolates may further help in the progress of probiotic research especially in clinical applications. The research is aimed at the evaluation of probiotic properties of bacterial isolates of various fermented foods. Further studies are planned to evaluate these isolates for their anti- oxidative, anti-cholesteremic and anti-bacterial properties. Currently her research focuses on development of novel functional foods, with prebiotic properties,

which could improve the quality of life by stimulating probiotics growth in gut and reduce the dependence on drugs having high cost and side effects.

- **Dr. Garima Mathur, Assistant Professor (Senior Grade)**

  The research interest of Dr. Garima Mathur includes production of microbial polymers and composites, their characterization and exploring their potential in various industrial and biomedical applications. Her current research work focuses on screening of novel microorganisms for production of bacterial cellulose and their molecular characterization. She is involved in production and characterization of two biopolymers: bacterial cellulose (BC) and fungal chitosan (FC) and development of composites/blends with various applications such as biomedical, food and environmental remediation.

- **Dr. Ankisha Vijay, Assistant Professor (Grade-II)**

  The research interest of Dr. Ankisha includes in the area of wastewater treatment, bioelectrochemistry, microbial fuel cells, bioremediation, and renewable bioenergy. Her core area of research is environmental biotechnology/engineering and bioremediation. Her research is focused on applications of microorganisms to curb environmental pollution, provide clean energy, and remediate toxic or hazardous waste. Her research work is based on the interdisciplinary areas of science at the interface of microbiology, electrochemistry, and material sciences. She has worked on waste to energy conversion processes to develop sustainable biotechnological solutions to water pollution and energy. Her research work also addressed the challenge of simultaneous removal of U (VI) and nitrate from nuclear waste in microbial fuel cells (MFC). She is keen on studying the in-situ bioremediation of real industrial wastewater and simultaneous power production, bioremediation of hazardous waste through MFC and biohydrogen production for clean energy.

- **Dr. Pooja Choudhary, Assistant Professor (Grade-II)**

  The research interest of Dr. Pooja focused in the area of plant stress biology, transcriptomics, metabolomics and proteomics. Her core area is plant biotechnology. The research is focused on the development of blast resistant rice, where the comparative proteomics and phosphoproteomic analysis of contrasting rice cultivars identified potential candidate genes underlying the mechanisms of disease susceptibility vs. immunity in rice. Additionally, she was part of multi-disciplinary collaborative projects, where she contributed to the development of an efficient and reproducible transformation method in legume crop, *Cicer arietinum*, to expedite functional genomics studies in these recalcitrant crops. Pooja is a plant biologist with expertise in proteomics, transcriptomics, genomics, metabolomics and interdisciplinary areas of protein chemistry, molecular biology and bioinformatics. Her research interest involves understanding the molecular mechanisms of stress responses in millet crops, leading to the development of stress tolerant crops for sustainable agriculture.

- **Dr. Ekta Bhatt, Assistant Professor (Grade-I)**

  Dr. Ekta Bhatt ‘s research interests are in the area of Environmental and Microbial Biotechnology. Presently she is involved in the phytoremediation of organic pollutants and assessing the environmental impact of these organic pollutants on plants, soil and water. Where she worked on to investigate chemical profiling and secondary metabolites of aromatic and medicinal plants in response to various environmental stresses. She also aims at the Water quality assessment & monitoring, Air quality monitoring and chemical characterization and source receptor modeling of

pollutants (VOCs and PAHs) in air, water and soil. Her research interests are also on solid waste management, impact of air pollutants on medicinal plants, micro plastic pollution and their remediation, contamination hydrology and emerging pollutants.

- **Dr. Rajnish Prakash Singh, Assistant Professor (Senior Grade)**

The research interest of Dr. Rajnish focused in the fields of molecular microbiology, probiotics engineering, plant-microbe interactions and bacterial pathogenesis. This multi-disciplinary training has fostered an ability to think outside the box in developing new approaches to understand mechanisms of bacterial pathogenesis. Presently, he is working on the bacterial secretion system, especially the Type VI secretion system (T6SS) in Enterobacteriaceae. He is presently employing the genomics, proteomics and transcriptomics tools to explore the role of T6SS in various environmental strains. Additionally, he is also working on the safety aspects of probiotic bacteria belonging to Bacillus spp. and their genome engineering for further human health purposes.

- **Dr. Anirudh Sharma, Assistant Professor (Grade-II)**

The research area of Dr. Anirudh is focused toward the generation of biofuels from industrial wastes, bioremediation and wastewater treatment. His core area of research is the potential use of whole-cell biomass as biocatalyst to produce the biofuels. His research work is based on the interdisciplinary area of science at the interface of microbiology and material sciences. He is actively involved in generation of nano-catalysts with the help of microorganisms for production of third -generation biofuels as well as wastewater treatment. He also focuses on studying the process parameters and optimization of reaction conditions for scale-up production. The thrust area is focused toward environmental sustainability solutions by using an alternative, cost-effective and high-quality feedstock which can significantly reduce the economic implication involved in biofuel production. On the other hand; The importance of his research is to identify the potential use of whole-cell biomass as a biocatalyst that effectively enhances the rate of reaction and contributes another important share in reducing the cost associated with the production of biofuels and useful for commercial applications.

[Annexure 1]

Extramural Research Grants

Research efforts of the group reflect in sponsored research grants of Rs. 6,59,46,969 Lakhs from premier funding agencies of Govt. of India namely: Department of Biotechnology (DBT), Department of Science & Technology (DST) and Department of Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homoeopathy (AYUSH) awarded to Department of Biotechnology, JIIT, Noida for project execution by respective department faculty.

Research projects:

Project Sanction order Received, Fund yet to receive:

"Evaluate ectomycorrhizal diversity in mining-disturbed and undisturbed forest ecosystems in Bastar region, generate metabolic activity profiles of forest ectomycorrhizae to propose best performing isolates for soil restoration". Granting agency: Department of Biotechnology (DBT), GoI, Total project cost: Rs.5980400/-; JIIT grant value: Rs. 3555200/-, PI: Prof. S Krishna Sundari, Biotechnology department, Co-PI: Dr. Kamlesh Shukla, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh Sanction order received: Jan, 2024.

Projects Sanctioned, Ongoing and Completed:

1. "Development of Bio- Formulations for treatment of Seed to prevent plant infection" for KFCL Consultancy: Prof Neeraj Wadhwa Project. Grant value: 15,00,000/-, 2023-2025

2. Development of fortified prebiotic cookies using edible seeds. DRID, JIIT, Noida. PI: Dr Smriti Gaur, Grant value: 12,70,000/-, 2022-2024

3. Evaluation of the production strategies, nutritional value and therapeutic properties of probiotic Sea buckthorn juice. Bilateral Scientific & technology Cooperation between Republic of Egypt and Republic of India) Indian Contribution: DST (Department of Science & Technology). PI: Dr. Ashwani Mathur, Co-PI*:* Prof. Pammi Gauba INR 12,60,000/-.

4. 'Molecular characterization of type VI secretion system in *Enterobacter cloacae* SBP-8 to employed as antibacterial tool. DBT-Ramalinga swami Project (2021-2026) (113.6 Lakh). PI: Dr. Rajnish Prakash Singh

5. Exploring efficacy of plants and microbes for remediation of E-Waste Contaminated Soil, Ministry of Forest and Environment, PI: Prof. Pammi Gauba, C-PI: Prof. Shweta Dang (Department of Biotechnology, JIIT Noida), Amount: Rs 47,92,980/-

6. Developing functional bacterial cellulose composites as immobilization matrix (Council of Science and Technology, U.P); PI: Dr. Garima Mathur; Co-PI: Prof. Pammi Gauba. Grant value: 6.80 Lakhs, 2019-2021 (Completed).

7. Potentially novel carbohydrase's (cellulase and related enzymes) for waste management from cultivable bacteria and functional metagenomic library of North East India biodiversity hotspot (DBT- under Twinning Program for North- East). PI (JIIT): Dr. Indira P. Sarethy, PI (CSIR-NEIST) Dr. Hari Prasanna Deka Boruah, (2017-2020). Grant value: 22.21 Lakhs (JIIT), Co- PI: Prof. Sanjay Gupta, Dr. Ratul Saikia, Dr. Anil Kr. Singh Total grant value Rs. 55 lakhs (Ongoing)

8. Evaluation of the heavy metals content in market samples of plant raw drugs used in Ayurveda (AYUSH, GoI), PI: Prof. Pammi Gauba (2018-2022). Grant value: Rs. 41.10 Lakhs. (Completed).

9. Application of customized PGPM based formulations for reclamation of soil permeated with Organophosphate pesticide residues (DBT), PI: Prof. Krishna S. Sundari, Co-I: Dr. Sudha Srivastav (2017-2020). Grant value: Rs. 62.10 Lakhs. (Completed)

10. Formulation of Microbial consortia with parallel biofertilizer and biocontrol properties. (DBT): PI: Krishna Sundari, Co-PI: Dr Reena Singh (TERI). (2010-2014) Total grant value: 57.39, (JIIT: 24.22 Lakhs, TERI: 33.17 Lakhs) (Completed)

11. Scientific documentation (digitization) of the selected Indian Medicinal Plants used for antidiabetic and other activities AYUSH-NMPB-MHRD, Govt of India, PI: Dr Rachana, (2008- 2011) Grant Value: Rs. 7 Lakhs (Completed)

12. Development of a biocatalyst for DE aromatization of diesel. (DBT), PI: Nidhi Gupta, Co-PI: Sanjay Gupta, Co-PI: D.K. Adhikari (Indian Institute of Petroleum, Dehradun) (2013-2014).

13. Nose to brain delivery of surface modified drug loaded PLGA nanoparticles for the management of Trigeminal Neuralgia " PI: Dr. Shweta Dang; Co-PI: Prof. Pammi Gauba. Co Pi: Dr Amit Tyagi, INMAS Bilateral Scientific & technology 12 Lakh, ICMR.

14. Development of Natural Product Laboratory for Advance, Project Investigator: Prof. Pammi Gauba, INR 60 Lacs, five years (2022-2027). DST-FIST.

15. Biotechnology Solutions for Soil and Water Remediation; Coordinator: Prof. Pammi Gauba; three years (Start date: April 2022), INR 15 Lacs. Center of excellence for Biotechnology solutions, Jaypee Institute of Information Technology, Noida.

16. Identification of key regulators and their controlling Mechanism in a combinatorial amyotrophic lateral sclerosis Network: an integrated bioinformatics analysis, PI: Dr. Shazia Haider, Co-PI: Prof. Pammi Gauba, Three years (June 2022), INR 24 lacs. Life Sciences Research Board (LSRB) of Defense Research & Development Organization (DRDO).

17. Validation of blood bag delivery by drones compared to conventional method of transportation, PI: Prof. Pammi Gauba, Prof. Shweta Dang, December 2022-March 2023; INR 10,38,130/-, Indian Council of Medical Research (ICMR).

18. Presence of antibiotics in soil and its remediation, PI: Ms. Arushi Saxena, Mentor: Prof Pammi Gauba. INR 30,97,204/-, Department of Science and Technology (DST).

19. Ability of select PGPM strains to remediate organophosphate pesticides commonly used in agriculture (DBT) PI: Prof. S Krishna Sundari (2013-2014) Grant value: Rs. 6.59 Lakhs (Completed)

20. Development of a biocatalyst for the removal of nitrogen and sulfur from diesel, (DST), PI: Nidhi Gupta (2013-2016). Grant value: Rs. 27.5 Lakhs. (Completed)

Women Scientist Project (DST-WoS-A)

Studies on production of therapeutically important saponins using *in-vitro* culture of *Bacopa monnieri.* (DST) PI: Pragya Bhardwaj (2014-2018); Faculty mentors: Dr. Ashwani Mathur, Dr. Chakresh K Jain. Grant value: 19.61 Lakhs (Completed)

Post Doctoral Research Associateship

Screening of native microbes with tannase producing ability, production of tannase and gallic acid using alternate substrate. (DBT), PI: Prof. S Krishna Sundari, Post-Doctoral Fellow: Dr. K E Nandini (Jan 2012- Dec 2015). Grant value: 19.44 Lakhs (Completed)

Sponsored Fellowships

1. Junior Research Fellow (JRF) awarded to Mr. Shashank Awasthi in Project titled "Development of Bio- Formulations for treatment of Seed to prevent plant infection" for KFCL Consultancy (Project. HR/JIIT/Apptt/JRF/2023/SA) Mentor: Dr. Neeraj Wadhwa.

2. Bioprospection of Microorganisms from Selected Niche Habitat(s) (Soil/ Rocks) for Antimicrobial Products. Indian Council of Medical Research. Fellowship holder: Nidhi Srivastava (ICMR fellowship No. [3/1/3JRF-2013/HRD-136 (30690), PhD Scholar, JIIT Noida), Duration: 2014-2019, Grant Value: Rs. 18,02,402 lakhs, Mentor: Dr. Indira P. Sarethy.

3. Bioprospection of Actinomycetes from Indian desert and antimicrobial activity of selected isolates: Department of Science and Technology- INSPIRE Program, Fellowship holder: A. Ibeyaima (IF120267, PhD Scholar, JIIT Noida), Duration: 2012-2017, Rs. 21,67,000 lakhs. Mentor: Dr. Indira P. Sarethy.

4. To develop a millet-based fermented food product and assessment of its nutritional and functional properties. Department of Biotechnology, (DBT, JRF), Fellowship holder: Rishibha Gupta, Duration: July 2019-2024, Rs. 24,60,776.47 lakhs., Mentor: Dr. Smriti Gaur

Grand Total of total Research grants sanctioned value: Rs. 6,59,46,969/- lakhs

[*Annexure 2*]

Facilities / Infrastructure Existing

S No.	Name of equipment's& numbers	Make/company
1	BOD Incubator	Hicon
2	Cold room	Blue star
3	Spectronic (20d+)	Thermospectronic
4	Monocular microscope	Olympus
5	Autoclave	Hicon, Atlantis
6	Laminar flow (horizontal)	S.m. international
7	Micropipettes	Eppendorf
8	Centrifuge (refrigerated) -3k30	Sigma
9	Gel documentation system	Bio-Rad
10	Gel drying system	Bio rad
11	Elisa reader model -benchmark	Bio-Rad
12	Water bath	Gfl, Germany
13	Incubator shaker	Kuhner
14	Thermal cycle (PCR)	Bio rad
15	Electronic analy. Balance	Denver
16	Conductivity meter model - 145a+	thermo orion
17	pH meter model -420a+	thermo orion
18	Comprehensive plant tissue culture lab	Vista biocell
19	pH meter digital	Elico
20	Fermentor (7 ltrs)	Bioage
21	Deep freezer -80 model -u410+	New Brunswick
22	Lyophilizer model - alpha 1-2ld	Christ
23	HPLC model- water-2996	Waters
24	BOD incubator	Narang sci. System
25	Binocular microscope ch20i	Olympus
26	Digital incubator orbital shaker	Macflow

27	Digital circular chillar bath	Macflow
28	Digital water bath with incubator shaker	Macflow
29	High precision balance - cy510c	Citizen
30	Balance model - ctg 602	Macflow
31	Binocular microscope with photo interface -bx51	Olympus
32	Magnus zoom trinocular microscope model- msz-	Olympus
33	Olympus zoom binocular microscope model- sz51-	Olympus
34	Magnus zoom binocular microscope model-msz	Olympus
35	Thermal cycler (PCR) model- peltier	Bio-rad
36	Incubator shaker model -lab thermlt-x	Kuhner
37	Laminarflow	Atlantis
38	Biosafety hood	Atlantis India
39	Refrigerator- (Sanyo)	Sanyo
40	Universal frequency counter, power supply	Bharti electronics
41	Premium upright freezer, model no -u410	New Brunswick
42	Chemical storage cabinet (model-csc-pp-40-24-87)	Atlantis India
43	Laminar flow vertical-modelv-42	Atlantis India
44	Remi cooling microfuge -cm-12, microcentrifuge-	Remi
45	UV-Vis spectrophotometermodelUV-1800	Shimadzu
46	Gas chromatography	Thermoscientific
47	Laminar Air Flow	Atlantis
48	Microscope	Olympus
49	Shaker incubator	Eppendorf
50	Colony counter	UBTECH
51	Water Analyzer	Systronics
52	Spectrophotometer	Labomed
53	Thermal cycler	HIMEDIA
54	Refrigerated centrifuge	Centurion scientific
55	Precision balance	Radwag

56	Greenhouse	AMbiotech
57	Microwave Digester	Nutechanalytical Technologies Pvt. Ltd.
58	Bio-Flow Fermenter Eppendorf	Eppendorf
59	BML Incubator	UVSAR
60	Refrigerator Samsung	Samsung
61	UV-Vis Spectrophotometer	Cole Parmer
62	Hot Air Oven	Mcflow Engineering

[*Annexure 3*]

Conferences / Workshops / FDPs/Guest lectures/Seminars/Webinars

Conferences

- 7th International Conference on Advances in Biosciences and Biotechnology (ICABB-2024)". The conference is scheduled from 31st Jan to 2nd Feb 2024 under the theme "Food & Microbial Biotechnology: Insights and Innovations"
- International Conference on Advances in Biosciences and Biotechnology (ICABB-2022) Dept. of Biotechnology, JIIT Noida February, 2022. Theme: Innovations in Life Sciences and Computational Biology)
- International Conference on Advances in Biosciences and Biotechnology (ICABB-2021) Theme: Recent trends in Biosciences and Biomedical Research. Dept. of Biotechnology, JIIT Noida, 28-30 Jan, 2021.
- International Conference on Advances in Biosciences and Biotechnology (ICABB-2019) Theme: Bioresources & Biodiversity. Dept. of Biotechnology, JIIT Noida, 31 Jan- 2 Feb, 2019.
- International Conference on Advances in Biosciences and Biotechnology (ICABB-2018) Dept. of Biotechnology, JIIT Noida February, 2018. Theme
- International Conference on Advances in Plant and Microbial Biotechnology (PMB-2017) Dept. of Biotechnology, JIIT Noida February 02-04, 2017. Theme

Workshops

- Half-day training workshop on "Aptitude & Logic for Competitive Exams & Job Interviews" Organized by Student Counselling Centre, Department of Biotechnology & SAP (Student Activities & Progression) unit of IQAC, November 18, 2022

- Virtual Workshop & Hands-on Training on "Next Generation Sequencing and its Implications in Agriculture and Human Health" 5th-9th December 2022 (Dr. Rachana and Dr. Pooja Choudhary)

- Virtual Workshop & Hands-On Training on Bioinformatics Approaches for Data Analysis & Research 12-14 August 2021. (Dr. Rachana and Dr. Shazia Haider)

- One-day Workshop on Hands-on to Computational Biology for Genomic and Metagenomic Analysis- 13 Nov, 2018

Faculty development Programs

1. FDP on **"Advancements and Innovations in cellular communication and signal transduction." 17- 21 July 2023** (Dr. Rachana and Dr. Shalini Mani)

- Day 1: Session 1
  Cellular communications and Signal transduction
  Prof. Anju Srivastava, Dept. of Zoology, University of Delhi, Delhi-110007
- Day 2: Session 2

When Cell Communication Goes Wrong: Signaling Defects and Disease
Deepa Subramanyam, Scientist F, National Centre for Cell Sciences, Pune

- Day 3: Session 3
  Hands on Practice on Network Medicine to identify disease modules and pathways
  Dr Shazia Haider, Asst Prof. Department of Biotechnology, JIIT Noida
- Day 4: Session 4
  Advanced approaches to study signaling pathways
  Dr Bipasha Bose, Yenepoya University Mangalore
- Day 5: Session 5
  Flow cytometry in Cell signaling studies: Basics, applications and demonstration
  Dr Debjani Kundu, Luninex Corporation

2. **"FOOD AND AGRICULTURE BIOTECHNOLOGY" 02 - 07 August, 2021** was organized and many speakers from academia and industry gave talk in the following areas of Food Biotechnology and Agricultural Biotechnology (Prof. Neeraj Wadhwa and Dr. Susinjen Bhattacharya)
   Resource Persons - A set of prominent speakers from Industry and Academia who are involved in latest research as mentioned below:
   - Harnessing potentials of Agri biotechniques for Nutritional genetic gains in food legumes by Dr. Rajendra Kumar,
   - Post-harvest Management of Horticultural Commodities Determinants of post-harvest qualities of Kinnaeuraooles, and effect of coating material on aroma volatiles as well as briefed us on the methods of coating fruits by Dr. Koushik Mazumder,
   - Ethylene Biology and its management in fruit and vegetable post-harvest Ethylene is a naturally produced, simple two carbon gaseous plant growth regulator that has numerous effects on the growth, development and storage life of many fruits, vegetable by Dr. Prarabdh C. Badgujar,
   - Bioactive peptides from meat food: Production, biological activity &safety threw light on the health benefits of novel Bioactive peptides derived from meat and their usage potential in sports, cosmetic as well as animal feed industry. The latest methods to evaluate Bioactive peptides and address the safety issues of these peptides were also well discussed.
   - Dr. Saravanan Chakkaravarthi briefed the faculty about, Health benefits of dietary polyphenols' gut microbial metabolites. Flavonoids, the secondary polyphenols have been suggested to prevent atherosclerosis by its antioxidant property. The gut microbiota plays a key role in modulating the production, bioavailability and, thus, the biological activities of phenolic metabolites, particularly after the intake of food containing high-molecular-weight polyphenols. Oxidation of low-density lipoprotein may play a significant role in prevention of diseases.
   - Dr. Neetu Kumra, Nanobiotechnology in food safety and quality assessment and stablised phytochemicals like Quercetin alternate tools for inactivation of E. coli in paneer during refrigeration storage and impact safety of dairy foods.
   - Dr. Nagendra Nehra, talked on Multitude Determinants & Antecedents of Consumer Behaviour: A Packed Food Products Perspective Packaged. Food have become essential to human being to be purchased regularly in day-to-day life. The factors influencing consumer Behaviour towards food products purchase was discussed with examples like diet cola, hippo products.
   - Faculty got inputs from the entrepreneurs/ Agripreneurs in Food and Agriculture industry like Dr. B. L. Dhar, Speciality Mushrooms http://www.nnmushroomconsultingin dia.com/ Dr Dhar having about 40 years' experience in Agriculture Research and Development, more than 30 years in Mushroom R&D, as Director technical, mushroom R&D in Mushroom Research

Development and Training Centre, Usha Farms, Bhijwasan, Delhi.let us the intricacies of growing mushrooms is one of the biggest money-spinning enterprises in the world besides being an environment friendly agricultural activity, and mushroom is an important horticultural cash crop that earns quick revenue for the farmer besides helping in recycling of agrobyproducts

- Monika D Chowdhry, of The Mushrooms Hub have made the faculty aware of the various varieties of mushroom that can be grown and marketed in India. As part of their endeavor to bring the health benefits of fungi along with rich flavors of umami to their customers, they also create some very healthy products from our mushrooms, which are totally chemical preservative free. Some of their products were – Dried Mushrooms, Mushroom Soups, Mushroom Pickles
- Dr KedarPrabhuraj, CEO Ross Life science Private Limited's Pune. introduced us to Ross Life Sciences which specializes in development and evaluation of products, utilized in pest management and household insecticides. His domain experts made the audience aware of the regulatory requirements before introducing the products in the market as well as Ecotoxicology and genotoxicity and packaging work carried out in their labs.

3. "Recent Advances in Plant & Microbial Biotechnology", July 13-18, 2020

Plant & Microbial Biotechnology Centre of Department of Biotechnology, JIIT, NOIDA has conducted a one Week Online Faculty Development Program titled "Research Advances in Plant & Microbial Biotechnology - RAPMB-2020", during July 13-18, 2020. The objective of this program was to provide an overview on diverse aspects of research advances in Plant Biotechnology and Agriculture and further the research acumen and research output of all participants

- About The Faculty Development Program

  Biotechnology is at the helm of research advances since past decade. Both Plants and Microorganisms are the harbingers of diverse resources which when exploited through structured scientific experimentations, yield a variety of products that find their place in multiple areas including Agriculture, Pharmacy, Health care, process industry, environmental remediation synthesis of novel molecules and a major contribution in generating biofuels. New advances in biotechnology are providing great insights into the workings of nature, presenting interesting opportunities to apply principles of biology to different fields of science. Sustainable solutions are emerging to address the concerns on improving crop productivity, depleting natural resources, environmental pollution, safety of food and agricultural products etc. Concurrently, there is an increasing demand for natural bio-products of therapeutic and industrial importance in the areas of healthcare, environment, food and agriculture biotechnology. This has provided an impetus for research on plants and microorganisms that produce novel bio-products with variable properties and understanding their mechanisms of action at molecular level. Faculty Development Program conducted by the Department of Biotechnology, JIIT NOIDA was intended to further the research acumen and research output of all participants by providing a vibrant platform introducing research advances in the field of Plant and Microbial Biotechnology.
- Key Themes of FDP

  The FDP program was designed to cover six individual themes that furthers the academic knowledge and research acumen of Faculty, Researchers, Scientists, Scholars, Entrepreneurs & Industry personnel who are actively engaged in the field of Biotechnology.

The six themes that were covered during FDP are as follows:

- Research advances in Phyto- biologicals
- Workshop on Bioinformatics tools for Plant & Microbial Biotechnology Research
- Research advances in Microbial Biotechnology
- Impact of IPR & Regulatory affairs in Life Sciences Research
- Industry Meets Academia
- Research advances in Agriculture & Environment

This Faculty Development Program has provided a vibrant platform fueling an impetus for research on plants and microorganisms.

4. Faculty Development Program on "Recent trends in Industrial Biotechnology", July 1-6, 2019

One-week Faculty Development Programmed on "Recent Trends in Industrial Biotechnology" has been successfully organized by Department of Biotechnology, Jaypee Institute of Information Technology, Noida from July 1-6, 2019. The program included 19 registered faculty members, 15 unregistered research scholars and 6 resource persons. Speakers were both from reputed institutes, universities and Industries. They presented on areas pertaining to recent advancements and trends in industrial biotechnology. The event was highly appreciated by the participants. All the sessions were very informative, interactive and provided the insight about industrial products and strategies used. Vast topics were covered in the core area of industrial biotechnology including probiotics, organic farming and organic foods, recombinant therapeutically important products, amino acids to name a few. We are very much thankful to our Vice Chancellor, Administration and Finance team for their constant support. We are highly indebted to Prof. Pammi Gauba, Head of the Department for her continuance guidance and support in making this event successful. Special mention to our research volunteers for their enthusiastic and energetic participation.

The main objective was to enlighten participants in solving new research questions in industrial biotechnology. Faculty will be well conceptualized and benefited by the series of lectures and interactive sessions to be delivered by subject experts from both Academics and Industry which will help in enhancing the quality of their teaching and giving a new direction to their research interests.

5. FDP on Bioentrepreneur ship organized by dept. of Biotechnology, JIIT Noida, July 10-15, 2017.

The Faculty Development Programmed on Bioentrepreneur ship was organized by the Department of Biotechnology, JIIT (July 10-15, 2017). It was aimed at strengthening faculty outlook on various aspects of Bio-Entrepreneurship – establishment, financial aspects, opportunities and quality assurance and expected to benefit faculty by the series of lectures, workshop and interactive sessions on varied facets of entrepreneurship involved in the Biotechnology sector. The key sessions were focussed on Bio Entrepreneurship opportunities, Indian bioindustry and government initiatives, financial aspects of entrepreneurship, Quality control and ISO certification. Dr. Subhash Chand, Formerly, Professor & Head, Biochemical Engineering & Biotechnology, I.I.T. Delhi was the keynote speaker. Dr. Sanjeev Mittal, Professor and Dean, Guru Gobind Singh Indraprastha University, Delhi and Mr. Hardik Ravat from iSaptarshi Technologies delivered lectures on this

theme. Ms. Seema Agarwal and Mr. Saneh Gupta of Kissan Mushrooms, Noida mentioned their experiences in setting up a mushroom spawn production unit. Mr. Abhishek Tyagi of Edge Consultancies, also an alumnus of JIIT, shared his journey of completion of studies in JIIT and setting up his quality certification unit. There were 25 participants and the lectures were well-received.

Guest lectures

S.No.	Event	Date	Organizer
1	Guest Lecture: Meet Our Alumni series	10th Dec 2022	Alumni Committee, Student Counselling Centre, Dept of Biotechnology, Dr. Shweta Dang, Dr Garima Mathur
2	Guest Lecture: Effects of Tobacco on Health	5th Dec 2022	Yoga, Prahari and Health Hub, Dept of Biotech. Prof Reema Gabrani
3	Meet our alumni Series Guest Lecture: Career Opportunities in Market Research for Biotechnology Students	26th Nov 2022	Alumni Committee, Student Counselling Centre, Dept of Biotechnology, Dr. Shweta Dang, Dr Garima Mathur
4	Guest Lecture by Ms. Preeti Tiwari: Future prospects and career opportunities in life sciences.	25th Nov 2022	Dr. Ekta Bhatt, Dr Priyadarshini
5	Online guest lecture on Mismatch between diet & lifestyle	12th Nov 2022	Dr. Vibha Gupta
6	Guest lecture for National Nutrition Week: Dr. Anshu Mathur Rana Gynecologist Obstetrician	7th Sep 2022	Prof. Neeraj Wadhwa (Faculty Coordinator) Dr. Manisha Singh (Faculty Coordinator)
7	Guest lecture on "Mental Health Consideration during and post Covid: A paradigm shift"	8th February 2022	Dr. Ashwani Mathur
8	Talk on Cancer Prevention and Palliative Care	28th Feb 2022	Prof Vibha Rani
9	Invited talk on “Stress Management”	16th April 2022	Yoga and Health Hub in association with Capability Enhancement and Development Cell, Prof. Reema Gabrani, Prof. Satish Chandra, Prof. Shweta Dang and Ms. Ekta Bhatt

10	Session on Career Guidance/Student Counselling Centre Dr. Vipin Gupta, Scientist, Ministry of Environment, Forest and Climate Change.	16th May 2022	
11	Guest Lecture: Assigning functional definitions to diversity in CRISPR associated and independent Cas4-like proteins	14th May 2022	Dr. Vibha Gupta
12	Alumni talk: Career opportunities in Market Research for Biotechnology students	26th Nov 2022	Alumni committee (Prof. Shweta Dang, Dr. Ekta Dang, Dr. Garima Mathur)
13	Alumni talk: Corporate Career in the Healthcare Sector after Post graduation in Biotechnology	10th Dec 2022	Alumni committee (Prof. Shweta Dang, Dr. Ekta Dang, Dr. Garima Mathur)

Seminars

S.No.	Event	Date	Organizer
1	Next Generation Sequencing and its Implications in Agriculture and Human Health workshop	5th-9th Dec 2022	Dr Pooja Choudhary, Prof Rachana
2	Know Your Soil' Online-Quiz competition	5th Dec 2022	Prof Krishna Sundari, Green Initiatives & Waste Management Cell & Dept of Biotechnology
3	Half-day training workshop on Aptitude & Logic, in collaboration with Career Launcher	18th Nov 2022	Prof Krishna Sundari, Dr Garima Mathur, Student Counselling Sentre, Department of Biotechnology & SAP (Student Activities & Progression) Sub-committee of IQAC
4	Shikshak Parv (Teacher's Day) celebrations - NEP 2020: An effort to re-ignite the glory of traditional Indian system of education with a contemporary make-over	9th Sept 2022	Prof. Indira P Sarethy
5	IPR Awareness Programme: Nitya Tyagi (NIPAM Officer & Examiner of Patents and Design Patent Office)	12th Aug 2022	Prof. Indira P Sarethy, Prof. Shweta Dang
6	Online Faculty Development	25th-30th July 2022	Prof Shweta Dang, Dr. Priyadarshini

	Program on the topic " Innovation in Drug Delivery Technologies"		
7	Topic: "HACCP and Microbiology for biotech students for food manufacturing sector" Alumni talk ("Meet our alumni series")	11th August 2021	Dr. Shweta Dang, Ekta Bhatt, Dr. Garima Mathur
8	Virtual Workshop and Hands-on Training on "Bioinformatics approach for Data Analysis and Research"	12th-14th August, 2021	Dr. Shazia Haider, Prof Rachana
9	Demo and Installation of Differential Scanning Calorimeter	17th August 2021	Lab Committee
10.	Say No to Drug Abuse: Nukkad Natak	25th Nov 2022	Prof. Reema, Prof Shweta and Dr. Ekta
11.	Effects of Tobacco on Health	5th Dec 2022	Prof. Reema, Prof Shweta and Dr. Ekta
12.	Seminar on "MBA India Vs MBA abroad & CAT 22 paper analysis	8th Feb 2023	Dr. Garima Mathur & Prof. Krishna Sundari
13	Young Oneness Leader	26th April 2023	Prof. Reema, Prof Shweta and Dr. Ekta
14.	Mind and Meditation	14th Feb 2023	Prof. Reema, Prof Shweta and Dr. Ekta

Webinars

S.NO	Event	Date	Organizer
1	Webinar on "Improving research practices and publications in association with Web of Science"	21st July 2021	Dr. Priyadarshini
2	Public Webinar - Ayurveda in everyday Life: Caution and Concerns	16th July 2021	Prof Krishna, Dr Manisha Singh
3	Webinar on "Molecular Cloning"	29th Oct2021	Prof Vibha Rani, Prof Pammi Gauba
4	Industry-Institute Interaction: "Cell and gene therapy: Concepts, Risks and Current Manufacturing Challenges"	28th Oct 2021	Dr. Sonam Chawla
5	Academia Industrial Interaction on "JIIT Biotechnologists as Future Career Consultants"	1st Oct 2021	Prof Vibha Rani, Prof Pammi Gauba
6	Career Counselling Session "Exploring various career avenues in Biotechnology"	27th Sept 2021	Prof. Pammi Gauba, Dr. Garima Mathur, Dr. Shazia Haider
7	training session for instrument "Muse Cell Analyzer"	30th Sept-1st Oct 2021	Lab Committee

8	"Introduction to QSAR in Flare" online training session	7th Sep 2021	Dr. Vibha Gupta
9	JAYPEE BIOTHON'2022 (International "Biotech Hackathon")	20th Feb 2022	Prof. Vibha Rani, Prof Sudha Srivastava, Dr. Chakresh Jain, Dr. Shazia Haider
10	Alumni talk: The much-awaited boom in the field of Biotechnology and different career prospects in India.	1st April 2022	Alumni committee
11	Institute-Industry interaction in collaboration with Genomiki Solutions Pvt. Ltd., NOIDA: Lecture titled "Bioentrepreneurs: The Scope & Future"	22nd April 2022	Prof. K Sundari
12	Webinar series on awareness program on "World Water Day" 7th April 2022: Lecture Title- Sustainable solutions for effective water management	7th April 2022 (online event)	Prof. Pammi Gauba, Dr. Manisha Singh
13	Webinar series on awareness program on "World Water Day": Lecture Title- Ancient systems of water conservation in India and their relevance in Modern times.	13th April 2022 (online event)	Prof. Pammi Gauba, Dr. Manisha Singh

[*Annexure 4*]

Inter Institutional Collaborations

Strategic partnerships and collaborations have been established with scientists from various institutions and research centres of repute that enable exchange of research reagents and protocols and sharing specialized expertise and facilities.

- Prof. Sanjay Rangnate Dhakate, Principle Scientist, Department of Materials Physics and Engineering, NPL, CSIR, New Delhi.
- Dr D.K Adhikari, Chief Scientist, Biofuels Division & HOA Biotechnology Conversion Area, Indian Institute of Petroleum, Mohkampur, Dehradun.
- Dr. Reena Singh, Area Convenor, CMR, TERI, Habitat place, Lodi road, New Delhi.
- Prof. Rup Lal, Department of Zoology, Delhi University, Delhi.
- Prof. Subhash Chand, Professor Emeritus, Department of Biochemical Engineering & Biotechnology, IIT Delhi.
- Prof. J.N Chakraborty, Department of Textile Technology, National Institute of Technology, Jalandhar.
- Prof S. P Singh, Department of Biochemistry, BHU, Varanasi, UP.
- Prof S Panda, Department of Biochemical engineering, IIT Kanpur
- Dr. Hari Prasanna Deka-Boruah, Principal Scientist, CSIR- North East Institute of Science and Technology, Jorhat, Assam
- Prof. Sobhy El-Sohaimy, Professor, ARID Land Cultivation Research Institute, SARTA City, Egypt
- Prof. Michael Danquah, Department of Civil & Chemical Engineering, University of Tennessee, Chattanooga, United States
- Dr. Anupam K. Mangal, Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH, India.

[*Annexure 5*]

Publications

International Journals

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Conference Publications

1. Priyanka Yadav, Ojasvi Thakur, Rachana, Liquid Biopsies: Enhancing Therapeutic Strategies in Lung Cancer Treatment VSRD INTERNATIONAL JOURNAL OF BIO-TECHNOLOGY AND PHARMACEUTICAL SCIENCES ISSN: 2278-9197. Volume XIII, Issue (Special Issue), January 2024. pp50
2. Priyanka Yadav, Ojasvi Thakur, RachanaA Comprehensive Exploration of Nigella sativa for Lung Cancer Therapeutics. VSRD INTERNATIONAL JOURNAL OF BIO-TECHNOLOGY AND PHARMACEUTICAL SCIENCES ISSN: 2278-9197. Volume XIII, Issue (Special Issue), January 2024.pp 51
3. Ojasvi Thakur, Priyanka Yadav, Rachana, Integrating Traditional Remedies and Nutritional Boosters for the Treatment of BreastCancer VSRD INTERNATIONAL JOURNAL OF BIO-TECHNOLOGY AND PHARMACEUTICAL SCIENCES ISSN: 2278-9197. Volume XIII, Issue (Special Issue), January 2024.pp 52
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[Annexure 6]

Resource Development List of Doctoral Students

Ongoing

S. No	Year of Reg.	Name	Title	Supervisor
1	2012	Sonam Shaheen	Mass Production ofPGPR for making microbial consortium and testing their ability to remediate organophoshphate pesticides	Prof. Krishna Sundari
2	2017	Shashank Awasthi	Isolation and Characterizationof Bioactive Compounds from developing Plant Embryos	Prof.Neeraj Wadhwa
3	2017	Sonia Sharma	Phytoconstituent screening, characterization and application of endophytes from Amorphophallus paeoniifolius	Prof.Neeraj Wadhwa
4	2017	Shalini Tyagi	Therapeutic potential of commercial Indian medicinal plants	Dr. Garima Mathur
5	2017	Archana Kumari	Employing competent microbes for remediation of toxic organic substances	Prof. Krishna Sundari
6	2017	Preeti Thakur	Remediation of inorganic pollutant nitrate by using microbes	Prof. Pammi Gauba
7	2018	Astha	Bioconversion of tannic acid through microbe assisted fermentation to produce pharmaceutically important gallic Acid and its derivatives	Prof. Krishna Sundari
8	2018	Neetu Saharan	Tuber metabolites and their biodegradation in natural environments	Prof. Neeraj Wadhwa
9	2018	Radhika Bansal	Metal Toxicity in Herbs	Prof. Pammi Gauba
10	2019	Swapnil Chaturvedi	Characterization of bioactive compounds from natural habitats	Prof. Indira P. Sarethy
11	2019	Priyansh Srivastava	Evaluation of antimicrobial and anticancerous properties of lichens.	Prof. Indira P. Sarethy
12	2019	Rishibha Gupta	Fermented millet based drink	Dr Smriti Gaur
13	2019	Nikita Singh	Bioactive peptides from fermented cow milk	Dr Smriti Gaur
14	2019	Arushi Saxena	Remediation of Medical waste	Prof. Pammi Gauba
15	2019	Akanksa Aggarwal	Designing and Optimization of Hydroponic conditions for medicinal plants	Dr. Ashwani Mathur
16	2019	Pooja Upadhyay	Development of enzymatic sensor for detection of Paraben	Dr. Ashwani Mathur & Prof. Pammi Gauba
17	2019	Mansi Sharma	Transdermal therapeutics for the treatment of skin cancer	Dr Rachana

18	2020	Deepanshi Pathak	Development of immuno modulatory active formulation for respiratory distress	Dr Rachana
19	2019	Priyanka Kakkar	Development of food products from Aroids	Prof.Neeraj Wadhwa
20	2019	Gemini Patel	Medicinal plants for disease control against metabolism and microbial diseases	Prof.Neeraj Wadhwa
21	2019	Samriddh Srivastava	Production and Characterization of Bacterial Cellulose	Dr. Garima Mathur
22	2020	Razi Rahman	Extraction and Characterization of Fungal Chitosan	Dr. Garima Mathur
23	2020	Shubhi Singh	Nutritional and functional analysis of Prebiotic cookies using edible seeds	
24	2020	Saloni Sachdeva	Microbial community of inland water bodies	Prof. Indira P. Sarethy
25	2021	Sukirti Tiwari	Antimicrobial food coatings	Dr. Garima Mathur
26	2019	Mansi Sharma	Transdermal therapeutics for skin cancer	Prof Rachana
27	2020	Deepnashi Pathak	DEVELOPMENT OF IMMUNOMODULATOR ACTIVE FORMULATION FOR RESPIRATORY DISTRESS	Prof Rachana
28	2020	Ritika Garg	E-waste: Its Remediation and Impact	Prof. Pammi Gauba
29	2021	Mahima	Microbial profiling of selected traditional Indian fermented foods	Prof. Indira P. Sarethy
30	2021	Abhiruchi Varshney	Applications of bacteriophages	Prof. Indira P. Sarethy
31	2022	Apeksha Rathi	Interaction studies on mushroom by using network pharmacology	Prof.Neeraj Wadhwa
32	2022	Garima Singh	PRoduction and Characterization of bacterial cellulose	Dr. Garima Mathur
33	2022	Rakhi Pandey	Screening and isolation of PHA producing bacteria	Dr. Garima Mathur
34	2024	Khushi Sharma	Development of Novel Therapeutics for diabetes	Prof Rachana
35	2024	Aditi Raj	Heavy metal toxicity in food crops	Dr. Ekta Bhatt
36	2024	Vikas Sharma	Microbial fuel cell mediated wastewater treatment and power generation	Dr. Ankisha Vijay
37	2024	Vaishali Singh	Characterization of resistant starch in minor millets	Dr. Pooja Choudhary

Completed

S.No	Name	Title	Supervisor	Year
1	Smriti Gaur	Studies of Proteases from Biological Sources	Neeraj Wadhwa	2010
2	Sarita Agrahari	Production of enzymes and degradation of feathers by soil microbes	Neeraj Wadhwa	2011
3	Gajendra Bahadur Singh	Microbial screening and expression Of gene involved in carbazole degradation	Nidhi Gupta	2011

4	N. Kumara Swamy	Paper mill effluent: Decolorisation and detoxification studies using chemical and microbial methods	Indira P Sarethy	2012
5	Mamta Pant	To study the preventive role of Adhatodavasica in oxidatively stressed condition	Rachana	2015
6	Anuradha Singh	Phytoconstituent characterization and application of Amorphophallus paeoniifolius in development of food products	Neeraj Wadhwa	2015
7	Sujata Basu	Preventive effects of Salacia extract and oxidatively stressed condition	Rachana	2016
8	Nivedita Mishra	Developing microbial consortia with And remediation of residual pesticides	Krishna Sunadri	2016
9	Parul Sharma	Evaluating the properties of casted and electrospun chitosan blend membranes as alternative surface for Vero cell culture	Ashwani Mathur, Prof. S Chand	2017
10	A. Ibeyaima	Bioprospection of Actinomycetes from Indian desert and antimicrobial activity of selected isolates	Indira P Sarethy, Prof. S. Sharma, Prof. R. Lal	2018
11	Swarna shikha	Screening Heavy Metal Tolerant plants and Determining their Phytoremediation Potential	Prof. Pammi Gauba	2019
12	Manisha Singh	Development of Ginkgo biloba microemulsion system against Alzheimer's disease for intranasal application	Dr. Rachna	2019
13	Samiya Khan	Development of a biocatalyst for refining diesel	Prof. Pammi Gauba	2019
14	Pragya Bhardwaj	Studies on production of therapeutically important saponins using in-vitro culture of Bacopa monnieri	Dr. Ashwani Mathur, Dr. Chakresh KJain	2019
15	Nidhi Srivastava	Bioprospection of Microorganisms from Selected niche habitats (Rock/soil) for Antimicrobial Products	Prof. Indira P Sarethy	2020
16	Pratibha Yadav	Remediation of organophosphate pesticides using PGPM	Prof. Krishna Sundari	2021

Maters Dissertations / Masters Projects

S.No	Enrl No.	Name	Project Title	Faculty
1	20002	Sharadwata Pan	Expression of Metal binding Proteins/peptides in bacterial cells (E.coli)	Dr. Susinjan
2	20008	Dushyant Pandey	Pegylation, a novel concept in protein modification	Dr. Indira
3	20098	Varun Roy	Effect of fungal protease on levels of proteases, gliadin, glutenin in developing	Dr. Neeraj
4	20045	Raghuraj Singh Dangi	Cloning and expression of mosquito larvicidal cry 4a protein of Bacillus	Dr. Krishna
5	20053	Sonal Nangalia	Antibacterial properties of allicin from garlic3c extract: a potential for clinical	Dr. Reema
6	20070	Prashant Kishore	Bioproduct characterization and analytical method validation	Dr. Indira
7	20084	Shashank Shekhar	Media scouting for optimization of growth of adherent cell line	Dr. Indira

8	20069	Sunil Kumar	Production of cellulase enzyme from Agaricus bisporus by solid state	Dr. Krishna
9	20081	Shree Prakash	Expression of spermidine-binding protein PotD in Escherichia coli	Dr. Susinjan
10	6101060	Anjali Sharma	Development and characterization of topical microemulsion system for	Dr. Reema
11	6501805	Bharti Sharma	Investigating the effect of plant metabolites on yeast cells subjected to	Dr. Krishna
13	6501829	Swati Chabbra	Investigating the effect of fungal metabolites on yeast cells subjected to	Dr. Krishna
14	6501825	V. Divya Sai	Developing mutants with increased PHA production on alternate substrates	Dr. Krishna
15	6501826	Yashi Saxena	Amylase production and characterization from alkaliphilic isolates	Dr. Indira
16	6501827	Varun Kohli	Substrate and process optimization for maximising PHA production on alternate	Dr. Krishna
17	7501821	Prakhar Sachdeo	Generation of metal binding E.coli through surface display of engineered	Dr. Krishna
18	7501823	Atul kumar	Dehydration and image analysis of Vitis vinifera	Dr. Neeraj
19	7501824	Aarushi Kashyap	In vitro propagation of the medicinal plant Solanum nigrum in Liquid media	Dr. Indira
20	7501825	Purva Chopra	Production and Extraction of Biosurfactant from Streptomyces sp. PN-	Dr. Indira
21	7501828	Nitin Goel	An Investigation of the possible preventive role of apocynin on smoke	Dr. Rachna
22	7501829	Harsha Rohatgi	Production of Resistant Starch from Plant sources	Dr. Neeraj
23	7501830	Vartika Mahajan	Isolation, Purification and Characterization of Protease from	Dr. Neeraj
24	7501834	Ayushi Jain	An Investigation of possible preventive role of Tinospora cordifolia on Smoke	Dr. Rachna
25	7501835	Aishvarya	Bioprospecting For Actinomycetes In Arid Desert	Dr. Indira
26	7501806	Uday Bahal	In-vitro propagation of the medicinal plant Bacopa monnieri in liquid culture	Dr. Indira
27	7501816	Jai Surabhi Verma	Production Of Proteolytic Enzyme Keratinase By Free And Immobilized Cells	Dr. Neeraj
28	7501819	Gaurav Kumar	Wheat gluten and puroindoline as edible food coating	Dr. Neeraj
29	7501811	Deepika	Antiapoptotic activity of bioactive compounds from selected fungi	Dr. Krishna
30	7501832	Sanchit Srivastava	Decomposition of Lycopersicon esculentum (tomato) and Citrus limonium	Dr. Neeraj
31	7501807	Ishan Wadi	Studying the interactions of active ingredients from salacia reticulata with	Dr. Rachana
32	8101013	Yashi Bhatnagar	Degradation of carbazole by entrapped and encapsulated Pseudomas sp.	Dr. Nidhi
33	8512003		Bacteriological and physicochemical quality of drinking	Dr. Smriti

		Deepak Kumar		
34	7501830	Vartika Mahajan	Isolation, Purification andCharacterization of Protease from	Dr. Neeraj
35	9101059	Mansi Sehgal	Profiling of Bacopa monnieri , from different geographical habitat	
36	9501810	Akansha Sachdeva	Development of non-dairy probiotic	Dr. Ashwani
37	9501803	Rohan Chhabra	Fungal chitosan: carrier material for animal cell culturing	
38	9101064	Mitika Gupta	Characterization of selected actinomycete isolates from dune	Dr. Indira
39	9501801	Vandana Yadav	Characterization of selected actinomycete isolates from arid desert	
40	9501806	Gaurav Shukla	Properties of edible coatings from native and modified aroid starches	Dr. Neeraj
41	9501822	Mahima Malik	Effect of gluten coating enriched with bioactive compound to improve the	
42	9501807	Apoorva Gaur	Production and purification of tannase from SSF, merits of co-culture for	Dr. Krishna
43	9501827	Pratima Mishra	Bioprocess parameter optimization for in vitro propagation of medicinal plants	Dr. Garima
44	9501828	Ravish Rana	Screening and isolation of vanillin producing microorganisms	
45	9501824	Anukriti Verma	Evaluation of probiotic characteristics of bacteria isolated from fermented foods.	Dr. Smriti
46	9501816	Abhishek Rathore	Removal of azo dye by bacterial isolate	
47	10101020	Niyanta Bhatia	Characterization of endophytic microorganisms for bioactivity	Dr. Indira
48	10501830	Taru Gupta	Antimicrobial activity of an endophytic streptomyces from Phyllanthus niruri	Dr. Indira
49	10501818	Kirti Chauhan	Screening of Indian medicinal herbs for cell death	Dr Rachana
50	10501823	Akanksha Mohindra	Biodegradation of phenols	Dr Neeraj
51	10501831	Harleen Kaur	Biodegradation of Crude oil hydrocarbons	Dr Nidhi
52	10101014	Aalapti Singh	Application of phytoremediation technology in remediation	Dr.Pammi
53	10101023	Prachi	Fungal chitosan and its membranes: preparation, characterization and	Dr. Ashwani
54	10501817	Sukriti	A study exploring effect of organophosphate pesticides on oxidative	Dr. Krishna
55	6501815	Nikhil Kathuria	Study of interaction of Apocynin and related compunds with MPO and like	Dr Rachana
56	6501828	Vaibhav Gandhi	To investigate the possible mechanism of inhibition by Apocynin towards NADPH	Dr Rachana Dr Chakresh
57	6501823	Sonam Saluja	Investigation of vascicine as a potent inhibitor of myeloperoxidase	Dr Rachana Dr Chakresh

58	6501816	Priyanka Manoj	Possible Mechanism of Vascine as a potential antioxidant	Dr Rachana Dr Chakresh
59	14301320	Rushali Singh	Production of bacterial cellulose and its composites	Dr. Garima
60	12501812	Manmeet Kaur Sethi	Food enzymes in the united states	Dr. Garima
61	12501809	Vipin Kumar Verma	Laccase production and application in textile dye decolorization	Dr. Garima
62	14301317	Akanksha Aggarwal	Saponin Production in Micropropagated Bacopa monnieri: In-vitro Culture	Dr. Ashwani
63	12501820	Himanshu Kumar	Role of abiotic parameters in regulating saponin yield in Bacopa monnieri	Dr. Ashwani
64	12501822	Anshul Bindal	Role of culture conditions in regulating total carbohyrate yield in microalgal	Dr. Ashwani
65	12501823	Rhythm Vanvari	Role of biotic parameters in regulating saponin biosynthesis in Bacopa monnieri	Dr. Ashwani
66	13501804	Ayushi Bhagat	Use of microarray based immunosensors for the detection of prostate cancer	Dr Rachana
67	14301309	Aarti	Phytochemical analysis of some medicinally important plant extract	Dr Rachana
68	14301309	Aarti	Anti-Cancer Potential of Some Indian Traditional Plants: A Comparative Study	Dr Rachana
69	14301301	Allen	Preparation and characterization of Nerium indicum extract	Dr Rachana
70	11501805	Avantika Rawat	Hypochlorous acid based formulation development and efficacy analysis of the	Dr Rachana
71	11501813	Jahnavi Sharma	Standardization of method for Micropropagation and assessment of clonal fidelity in Micropropagated plantlets of piper nigrum Linn. (papal)	Dr Rachana
72	10501818	Kirti Chauhan	Screening of Indian medicinal herbs for cell death	Dr Rachana
73	7501828	Ayushi Bhagat	An Investigation of possible preventive role of Tinospora cordifolia on Smoke	Dr Rachana
74	11501812	Ira Thapa	Azo dye decolorization by bacterial isolate	Dr. Smriti Gaur
75	11501809	Diksha Srivastava	Optimization of culture conditions for phytase production by bacterial isolate	Dr. Smriti Gaur
76	12501830	Arshia Khosla	Production and characterisation of rice-banana wine	Dr. Smriti Gaur
77	12501816	Lavina Rajput	Insights into obesity associated asthma phenotype from murine model	Dr. Smriti Gaur
78	13501836	Avishi Aggarwal	Cultivation for Phytase production	Dr. Smriti Gaur
79	13501830	Diksha Rathore	Isolation and Characterization Bifido bacterium spp. From animal faeces for Silver nanoparticle synthesis	Dr. Smriti Gaur
80	10501817	Sukriti Gupta	Astudy exploring effect organophosphate pesticides of oxidative stress metabolism in Sacchromyces	Dr. Krishna
81	13501803	Kartikeya Srivastava	Effect of Biotic stress on the growth and expression analysis for secondary metabolites production in two contrasting prickly and prickleless strains of Solanum khasianum CBClarke	Dr. Krishna

82	14501010	Saumya Singh	Analysis of medical history of patients Suffering from chronic diseases in india	Dr. Garima Mathur
83	14501001	Mehak Aggarwal	Analysis of medical history of diabetic in india	Dr. Garima Mathur
84	16801011	Ankita Vaishali	Comparative analysis of BCS operonfrom elucidating bacterial cellulose synthesis and regulation	Dr. Garima Mathur
85	18301002	Anjali Singh	Investigation of functional properties of natural personal care products	Prof. Indira P. Sarethy
86	21301003	Sayed Khurram Shah	Hospital information system App	Prof. Rachana
87	21301004	Pravesh Rawat	Computational Screening of nsSNPs in key Migraine protein based on Network Pharmacology approach	Prof. Rachana

MSc Dissertation

S. No.	Name	Enrl. No.	Project Title	Faculty
1	Disha karki	20915013	Network pharmacological studies in predicting the biological interaction of thymoquinone	Prof Neeraj Wadhwa; Dr Chakresh Jain (Co-supervisor)
2	Apeksha Rathi	20915011	Interaction studies on gingerol using network pharmacology	Prof Neeraj Wadhwa; Dr Chakresh Jain (Co-supervisor)
3	Km. Preeti	19915012	Bioactive compounds from microbial isolate	Prof. Indira P. Sarethy
4	Abhiruchi Varshney	19915010	Study Of Bacteriophages From Selected Water Bodies	Prof. Indira P. Sarethy
5	Aditi Upadhayay	21911003	Phytoremediation of Antibiotics: An insight into the comparison of various phytoremediation approach by Vigna radiata in hydroponic system	Dr. Ekta Bhatt
6	Shivani Sammelaniya	21911001	Physicochemical characterization of wastewater: impact of wastewater on soil and its phytotoxicity evolution	Dr. Ekta Bhatt
7	Ashok Tiwari	19915006	Ppetide inhibition of ReHB for MTORC1 inactivation and cancer therapeutics	
8	Vishakha Ahlawat	20915019	Antimicrobial potential of ganoderma lucidium species for would infections	
9	Karishma Rana	20915016	Ganoderma lucidum: Potential medicament for lung disorder	
10	Anjali Dhama	21915020	Intergratubg gene expression and protein interaction network to prioritize breast cancer associated genes	
11	19915013	Akanksha Mahajan	Screening of microbial protease producers and insilico analysis of FDA-approved compounds as protease inhibitors	Dr. Garima Mathur

12	19915007	Km. Tehreem Fatima	Isolation of pectinase producing microorganism	Dr. Garima Mathur
13	20915001	Rakhi PAndey	FUNGAL BIOPOLYMER:- EXTRACTION ANDCHARACTERIZATION	Dr. Garima Mathur
14	21915011	Tanya Chauhan	Isolation and characterization of pectinase production from fungal isolates	Dr. Garima Mathur
15	21915016	Saumya	Screening and characterization of lipase produced by fungus	Dr. Garima Mathur
16	21915027	Somya Tyagi	Physiochemical characterization of Bacterial Cellulose produced by Gluconoacetobacter sp. on agro-based material	Dr. Garima Mathur
17	20915012	Shruti Sharma	Development and assessment of prebiotic herbal drink infusion	Dr Smriti Gaur
18	20915009	Mansi	Development and analysis of flavoured millet and soya milk	Dr Smriti Gaur

M.Tech. Projects

S.No.	Title of Dissertation	Candidate	Name of Supervisors	Year
1	Quality assessment of street vended fresh fruit juices in West Delhi, India.	Deepak Kumar Bharti	Smriti Gaur (Supervisor), PammiGauba (Co-supervisor)	2012
2	Application of Phytoremediation technology in remediation of Pharmaceutials products	Alapati	Pammi Gauba	2015
3	Understanding The Association Of Skin Carcinoma And In Utero Arsenic Exposure In a Two Stage Model of Skin Carcinogenesis	Shagun Shukla;	Pammi Gauba	2016
4	The role of integrins in entry of JE virus in host	Grishma Chandrabose	Pammi Gauba	2016
5	Remediation of Antiboitics	Anjali Saini	Pammi Gauba	2017
6	Role of Bamboo plant in Phytoremediation of Antibiotics and Analgesics	Khilan Arora	Pammi Gauba	2017
7	Bioremediation for antibiotics	Rupali Barnwal	Pammi Gauba	2018
8	Impact of heavy metals on Indian spices	Sakshi Bajpai	Pammi Gauba	2018
9	Future secular changes and remediation of groundwater Arsenic in the Ganga river basin	Parul Chauhan	Pammi Gauba, Dr. N C Ghosh	2018
10	Investigation and implementation of water samples analysis for microbial contamination (Legionella) check	Jhum Jain	Pammi Gauba; Mr. Shivdev Chinna	2018
11	In-vitro and In-vivo experiments on antimicrobials activity of blue green algae, Westiellopsisprolific against crop pathogenic fungi	Mansi Aggarwal	Krishna Sundari	2017
12	Evaluate the effects of organophosphate pesticides on Yeast model system	Pratibha Chauhan	Krishna Sundari	2016

13	To evaluate pesticide impact on soil microbial and physiochemical activity	Krishnan and Dwivedi	Krishna Sundari	2017
14	Effectiveness of Micro, nanoemulsion and nanoparticles of targetes and Chrysanthemum on specific plant pathogens	Aditi Singh	Krishna Sundari	2016
15	Indian food additives market opportunities and forecast 2011- 2025	Sunakshi koul	Krishna Sundari	2017
16	Study the impct of organophosphate pesticides on plant and soil	Krishnan and Dwivedi	Krishna Sundari	2018
17	Biotechnological solutions for the control of Post-harvest disease in crops	Rashi Prakash	Krishna Sundari	2018
18	Evaluate the effects of organophosphate pesticides on Yeast Model system	Pratibha Chauhan	Krishna Sundari	2017
19	Effectiveness of Nanoemulsion and nanoparticles from Eucaluptus and garlic on specific plant pathogens	Pooja Yadav	Krishna Sundari	2016
20	Phytochemical evaluation of Anthocephalus cadamba and invitro cytotoxicity studies	Vrinda Sharma	Dr. Garima Mathur	2019
21	Production and characterization of bacterial cellulose	Sumbul Fatima	Dr. Garima Mathur	2020
22	Extraction and characterization of fungal Chitosan from Aspergillus ochraceus	Razi UrRahman	Dr. Garima Mathur	2020
23	Investigation of functional properties of natural personal care products	Anjali Singh	Prof. Indira P. Sarethy	2020
24	Bioremediation of Antibiotics	Puja	Ekta Bhatt	2017
25	Chemical Profiling and antimicrobial activity of some medicinal plants	Pooja Upadhyaya	Ekta Bhatt	2019
26	Differences in phytochemical profile and bioactivity of Ashoka plant as an outcome of air pollution	SAKSHI MALHOTRA	Dr. Ekta Bhatt	2021
27	Hospital information system App	Sayed Khurram Shah	Prof Rachana	2023
28	Computational Screening of nsSNPs in key Migraine protein based on Network Pharmacology approach	Pravesh Rawat	Prof Rachana	2023
29	Isolation and identification of Pseudomonas aeruginosa from sewage water and its potential application in waste water treatment	Shivangi Pal	Dr Smriti Gaur	2022
30	Comparative In-vitro evaluations of quality control parameters of jubilant generics ltd roorkee's azitromycin tablets with three other brands	Nisha Sharma	Dr Smriti Gaur	2023
31	Global functional drink market	Stuti Garg	Dr Smriti Gaur	2023
32	Microalgae as potential candidate of polycystic ovarian syndrome	Afreen Asif	Dr Smriti Gaur	2023