

List of PhD Scholars at CRDT

Student	Research Topic
Bhaskar Jha	Biogas Production from De-oiled Rice Bran with and without Rice straw
Shivali Sahota	Hydrogen Sulfide removal technologies from raw biogas
Goldy Shah	Design and developed a low cost PSA based biogas upgradation
Himanshu Kumar	Studies on utilization of Bio-CO ₂ in Rural areas
Priyanka	Designing of food waste based biogas plant
Swapna sagarika saho	Designing of biogas bottling
Adya Isha	Development of high efficiency valorization process for kitchen, vegetable and food waste
Biju I.K.	Experiments on Biogas-solid oxide fuel cell systems
Parveen Kumar	Development of an efficient gassifier biogas system for power generation from selected agriculture residues.
Komalkant Adlak	Designing of materials for biogas adsorption and energy storage
Amit Ranjan Verma	Design and development of biomass cook stove
Hemant Dadhich	Biogas production from mule dung/ horse dung and its effectiveness for commercialization
Ashu Jain	Optimization of green synthesis of silver nanoparticles for rural application using locally available plants
Farhat Bano	Assessment of selected emerging micro pollutants in wastewater in Delhi and NCR and their remediation
Farah Naaz	Development of integrated bio refinery from microalgae (grown on waste waster) to produce biofuel precursors and value added products
Shweta Kalia	Development and optimization of cellulose degrading enzyme and its application in Textile Industries
Saurabh Samuchiwal	Bioreactor configuration for treatment of textile wastewater
Rahul Jain	STP Wastewater purification through biological systems for use in thermal power plants
Saptarishi Dey	Development and optimization of microalgae based hybrid bioreactors for removal of regulated pollutants and emerging contaminants in polluted streams
Vivek Dalvi	Pilot scale microalgae photobioreactor design for nutrient and heavy metal removal from urban wastewater
Harshita Nigam	Customization of nano emulsion for the enhancement of algal biomass and carbon dioxide sequestration
Nidhi Hans	Supercritical CO ₂ Extraction of bioactive compounds from algae
Nagesh Singh	Decentralized wastewater treatment systems
Kaushalya	Bioactive compounds from algae
Sonal Yadav	Development of microbial formulation for the bioremediation of chemical pesticide and explosives
Garima Singh	Solid Waste Management
Mohd Aamir Khan	Development of microbial formulations for bioremediation of xenobiotic compounds from contaminated soil
Mandira Kapri	Development of functional food from mushroom mycelium
Abhay Tiwari	Nutraceutical mushrooms and probiotics
Sumati Sharma	Farmer-led Entrepreneurial Innovations
Ajay Kumar	Biofertilizers
Lahur M. Verma	Valorization of press-mud for agricultural applications: an integrated approach
Himanshu Arora	Development of biopesticide for horticulture/agricultural pests
Umesh Singh Rawat	Bioprocess Development for the Large-Scale Production of Ergosterol Enriched Mushroom Mycelia.
Monika Jangir	Polyphasic approach for assaying the roles of biocontrol agents against Fusarium wilt in Solanum lycopersicum
Amruta Khairnar	Rural Habitat from a Circular Economy Perspective
Niyati Raj	Development of a Communication Model focussing on Behaviour Change towards Social Welfare Schemes
Nalini Srinivasan	A study of ICT Acceptance by Rural Women Entrepreneurs in India
Mona Anand	A resilience approach to enhance quality of rural housing in India
Smriti Kala	Development of Micro-emulsion formulation
Vidhi Bhimjiyani	Supercritical extraction of Nutraceuticals and cosmoceuticals
Bhushan Dole	Study on Bio-refining of castor
Uma Dwivedi	Production of Fuels & Value added chemicals from waste plastic
Neeraj Awasthi	Studies in Kasturi Methi for development of Nutraceuticals
Lopa Pattnaik	Valorization of biomass from Indigofera sp.
Karnika Prakash	Modification of oils & fats for functional application & nutrition.
Divya	Scientific validation of fermented ayurvedic products.
Pooja	Membrane Distillation Systems for treatment of Potable water in Rural Areas
Gaurav Tomar	Evaluating impact of Urban-Rural Interface Air Pollution on Ambient Air Quality: A Case study in District of Saharanpur
Lalit Anjum	Life cycle study of Decentralized Renewable Energy options for Rural India
Monalisa Sahoo	Development of functional foods from underutilized tubers
Anand	Climate variability and crop yield
Sushree Titikshiya	Development of green process for extraction of natural food color
Phalguni Patnaik	Production of Green Chemicals and Nano crystalline Cellulose from the Lignocellulosic Biomass
Sumit Yadav	Paradigm shift of development with rural prospect in India
Ajay Agarwal	Efficient Solid Waste Management practices in Urban and Rural areas
Vikram Porwal	Comparative Study of the cattle-rearing tribes of India and South Sudan- Interlinkage between Education and Socio-cultural practices
Nitin Kumar Agarwal	Valorisation of Lignin-rich liquor generated from pre-treatment of bagasse and bagasse pith
Anuradha Vipul Janbade	High concentration Ethanol from Bagasse Pith

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Ayushman Swain	Studies on biological activity of phytochemicals from <i>Canna indica</i> and <i>Cyperus</i> sp.
Supreet Kaur	Isolation and characterization of bacterial strains and their enzymes with lignolytic potential
Hemesh Joshi	Mediation and Screening of Root Endophytes for sustainable agriculture in Kandi regions of Punjab.
P. Duraivadivel	Scientific validation and upgradation of jeevamrutha
Ambika Bashisht	Current scenario of aflatoxin B1 contamination in cattle feeds and their management
Umesh C. Sharma	Insect pest management in pulse storage systems
Pratibha	Design, Development and evaluation of Microbial loaded biodegradable cups for the cultivation of horticulture crops
Anjali Gautam	Secondary metabolites from biogas slurry for various applications
Monu Dinesh Ojha	β -lactamase diversity in bacteria
Vijay L. Shrivastava	Employing beneficial rhizobacteria to alleviate abiotic stress in <i>Cajanus cajana</i>
Kapil Singh	Low pressure ozone pretreatment of biomass for bioethanol production
Gaurav Chaudhary	Assay development and highthroughput screening of secondary metabolites from medicinal plants against Alzheimer disease
Shazia shareef	Design, development and evaluation of aptamer based AFB1 and their biomarker detection kits
Leena	Braking antibiotic resistance in MDR bacteria
Bhani	Exploring phytomolecules in Indian medicinal plants to suppress beta lactamase activity in MDR bacteria.
Neha Duhan	Isolation, encapsulation and value addition of Desi ghee flavour
Nitin Kumar	Development of herbal based immunomodulatory functional foods for patients suffering from epidemic diseases
Sushreesmita Mishra	Development of on-farm technology for postharvest management of Indian spices
Asutosh Mahapatra	Supercritical induced encapsulation and value addition of probiotics into milk based functional foods
Kumares Haldar	Studies on scientific validation of Makkhan making process
Preeti Singh	Designing of protein rich functionalized foods
Ankur Choudhury	Utilization of underutilized pulses for food and nutritional security
Nikita Sanwal	Value chain development for high altitude crop produce
Sukirti Joshi	Designing of customized traditional milk sweetmeats
Anchala Patel	Detection and monitoring of trans-fats in street foods
Vinayak D Fasake	Development of non wood paper from rural resources
Mansi Mishra	Development of nanobiopesticides from cow dung for management of red spider mite
Ayushi Srivastava	Etraceability of Indian honey through blockchain technology
Dinesh Bharti	Study the value chain of panchgavya products from non-milking cow
Zoya Javed	Impact of nanoparticles on cellulase enzyme production in actinomycetes in soil
Sameer A Khan	Low pressure -High Volume Storage of Biogas Using Activated Charcoal
Subodh Kumar	Pretreatment of agricultural biomass residue for efficient biogas production
Anil Kumar Sakhiya	Biochar production and application from agriculture residues
Abhijeet Anand	Life Cycle Assessment of Biochar produced from agricultural residue

