

14. Research Publications of each institute in the following format (from July 2024 to April 2025)

Research Publication Data 2024 –2025					
SNo.	Name of Faculty/Scientist	Title of paper	Research Level	Date of Publication	Name of Publisher
1	Abha Kumari	"Green and sustainable technologies for extraction of carotenoids from natural sources: a comprehensive review"	International	20/10/2024	Taylor & Francis
2	Abha Kumari	Statistical optimisation of enzymatic pretreatment process of marigold flower waste for enhanced hydrolysis and complete release of lutein ester through Taguchi orthogonal design	International	13/11/2024	Taylor & Francis
3	Ajay Kumar	From orchard to table: Significance of fruit microbiota in postharvest diseases management of citrus fruits	International	01/07/2024	Elsevier
4	Ajay Kumar	Combined Application of Biostimulants and EDTA Improved Wheat Productivity under Cadmium Stress	International	13/07/2024	Tech Science press
5	Ajay Kumar	In vitro antioxidant and in silico enzyme inhibition studies of Â Carissa carandasÂ Linn.: potential ingredient for nutraceutical development	International	07/10/2024	Taylor and Francis
6	Ajay Kumar	Utilization of Opium Poppy Seed oil for Biodiesel Production: A Parametric Characterization and Statistical Optimization	International	15/10/2024	Elsevier
7	Ajay Kumar	Research hotspot and trend analysis of heavy metals decontamination of wastewater in past two decades: A bibliometric analysis	International	07/11/2024	Elsevier
8	Ajay Kumar	Integrated organic and mineral fertilizer strategies for achieving sustainable maize yield	International	08/11/2024	Nature

		and soil quality in dry sub-humid inceptisols			
9	Ajay Kumar	Recent developments in microbial degradation of crop residues: a comprehensive review	International	17/11/2024	Springer
10	Ajay Kumar	Unlocking the adaptation mechanisms of the oleaginous microalga <i>Scenedesmus</i> sp. BHU1 under elevated salt stress: A physiochemical, lipidomics and transcriptomics approach.	International	18/11/2024	Frontiers
11	Ajay Kumar	Catalytic charge synergy on Ni/Sr@ rTiO2 system to promote hydrogen evolution for the implementation of green energy technologie	International	26/11/2024	Elsevier
12	Ajay Kumar	Editorial: Recent advances in biotechnological applications of microbial secondary metabolites	International	09/12/2024	Frontiers
13	Ajay Kumar	An exploration of RSM, ANN, and ANFIS models for methylene blue dye adsorption using <i>Oryza sativa</i> straw biomass: a comparative approach	International	23/01/2025	Nature
14	Ajay Kumar	Advancing vegetable genetics with gene editing: a pathway to food security and nutritional resilience in climate-shifted environments	International	01/02/2025	Springer
15	Ajay Kumar	Evaluating a Fungal Consortium for Efficient Rice Stubble Degradation	International	27/02/2025	JPAM
16	Ajay Kumar	Improving Plant Performance Through Microbiome Manipulation: The Potential Role of Current Bioengineering Approaches	International	03/03/2025	SPRINGER NATURE
17	Ajay Kumar	Recent advances in biotechnology and bioengineering for efficient microalgal biofuel production	International	04/03/2025	Elsevier
18	Ajay Kumar	Cyanobacteria-based bioremediation of environmental contaminants: advances and computational insights	International	18/03/2025	Springer
19	Ajay Kumar	Priming-a state of alert against environmental stress challenges in plants.	International	05/04/2025	Elsevier

20	Alok Singh	Proapoptotic Bcl-2 inhibitor as potential host directed therapy for pulmonary tuberculosis	International	27/05/2025	springer
21	Apekshita Singh	The nano-paradox: addressing nanotoxicity for sustainable agriculture, circular economy and SDGs	International	24/04/2025	BMC(part of springer nature)
22	Archana Tiwari	Characterization of natural compounds derived from diatom <i>C. gracilis</i> as potential therapeutic agents: An in-silico networking and docking study	International	12/09/2024	Elsevier
23	Archana Tiwari	Roadmap of algal autotrophic tissue engineering in the avenue of regenerative wound therapy	International	18/09/2024	Wiley Online Library
24	Archana Tiwari	Exploring the nutraceutical potential of high-altitude freshwater diatom <i>Nitzschia</i> sp. in batch culture	International	27/09/2024	Springer
25	Archana Tiwari	Molecular docking analysis of laccase mediated bioremediation of pharmaceutical compounds from wastewater	International	06/01/2025	Springer
26	Archana Tiwari	Antifungal Potency of Biosynthesized Silver Nanoparticles Derived from Marine Diatoms Against Multidrug-Resistant <i>Candida auris</i> and <i>Pichia kudriavzevii</i> .	International	17/01/2025	Chemistry Europe
27	Archana Tiwari	Microplastic pollution in aquatic ecosystems: impacts on diatom communities	International	30/01/2025	Springer
28	Archana Tiwari	Harnessing Nature's Nano-architects: Diatom Biosilica in Biomedical Innovations	International	01/05/2025	ELSEVIER
29	Archana Tiwari	Evaluating the nutraceutical and antioxidative potential of alginate beads entrapped marine diatoms	International	01/05/2025	ELSEVIER
30	Archana Tiwari	Antifungal Potency of Biosynthesized Silver Nanoparticles Derived from Marine Diatoms Against Multidrug-Resistant <i>Candida auris</i> and <i>Pichia kudriavzevii</i> .	International	17/01/2025	Chemistry Europe

31	Archana Tiwari	Exploring the significance of xenic and axenic cultures for diatoms: methodological insights, scope, and biotechnological implications	International	22/04/2025	Springer
32	Archana Tiwari	In-vitro assessment and characterization of anticancer, antibacterial, and antioxidant activity of diatom-derived metabolites	International	26/04/2025	Scientific Reports
33	Arindam Pramanik	Recent Advancements in the Application of Circulating Tumor DNA as Biomarkers for Early Detection of Cancers	International	01/07/2024	American Chemical Society (ACS)
34	Arindam Pramanik	Hydrogels as a Potential Biomaterial for Multimodal Therapeutic Applications	International	18/09/2024	American Chemical Society (ACS)
35	Arindam Pramanik	Recent Advances in Therapeutic Peptides: Innovations and Applications in Treating Infections and Diseases	International	23/04/2025	American Chemical Society (ACS)
36	Arindam Pramanik	Recent Advances in Therapeutic Peptides: Innovations and Applications in Treating Infections and Diseases	International	23/04/2025	American Chemical Society (ACS)
37	Aruna Kumar	Molecular delineation and haplotype analysis ofÂ domain membrane protein (DMP)Â gene influencing in-vivo haploid induction in maize	International	05/03/2025	SPRINGER NATURE
38	Banashree Bondhopadhyay	Revealing miRNAs' Janus-Faced Nature: Transforming Cold Tumours into Immunotherapy Hotspots and Overcoming Chemoresistance	International	29/01/2025	Bentham Science
39	Banashree Bondhopadhyay	Nanostructured Materials for Breast Cancer Therapeutics Enhancing Drug Delivery through Nanofibers, Nano-Mesh, and Nanoflowers	International	11/04/2025	Elsevier
40	Banashree Bondhopadhyay	Combinatorial and Fragment-Based in silico Design of PI3K-alpha Natural Hybrid Antagonists for Breast Cancer Therapeutics	International	29/04/2025	Open Exploration
41	Biswajit Saha	Exploring cutting-edge approaches in plastic recycling for a greener future	International	13/08/2024	Elsevier

42	Biswajit Saha	Unveiling the Significance ofÂ tert-Butoxides in Transition Metal-Free Cross-Coupling Reactions	International	11/10/2024	Springer International Publishing
43	Biswajit Saha	Metallaelectro-catalyzed alkyne annulations via Câ€“H activations for sustainable heterocycle syntheses	International	10/11/2024	Royal chemical Society
44	Debarati Paul	Yeast for the Production of Biochemicals and Biofuels	International	30/08/2024	MDPI
45	Debarati Paul	Sustainable lipid production by oleaginous yeasts: Current outlook and challenges.	International	07/02/2025	elsevier
46	Devalina Ray	Co-author	International	01/02/2025	Bentham Science
47	Devalina Ray	Sequential Aerial Oxidation and Atom-Economical C-3 Chalcogenation of Indolines Facilitated by PotassiumÂ tert-Butoxide	International	23/12/2024	Chemistry Europe
48	Devlina Pramanik	Removal of malachite green from an aqueous environment using chitosan-xanthan gum coagulation system: A response surface methodology approach	International	31/07/2024	Elsevier
49	Devlina Pramanik	Toxicological impacts of plastic microfibers from face masks on Artemia salina: An environmental assessment using Box-Behnken design	International	01/11/2024	Elsevier
50	Dibyakanti Mandal	Nucleoside and non-nucleoside reverse transcriptase inhibitor drugs (NRTIs and NNRTIs) are capable of binding Chandipura virus polymerase protein (L) and inhibit virus replication	International	08/07/2024	Springer Nature
51	Dibyakanti Mandal	"A Comprehensive Review: Exploring Bioactive Compounds of Citrus Fruit Peels for Therapeutic and Industrial Applications"	International	01/01/2025	Universal Wiser Publisher
52	Dibyakanti Mandal	Chandipura virus replication in Vero cells is inhibited by host restriction factors APOBEC3G and IFITM3	International	22/04/2025	Elsevier

53	Dibyakanti Mandal	Â Effect of maternal immunization on respiratory viral infections and health outcomes in pregnant women and newborns in India.Â Discov Public HealthÂ 22,	International	17/03/2025	Springer Nature
54	Hina Bansal	Molecular docking analysis of laccase mediated bioremediation of pharmaceutical compounds from wastewater	International	06/01/2025	Springer
55	Hina Bansal	Genome-wide association mapping of biochemical traits and its correlation with MYMIV resistance in mungbean (<i>Vigna radiata</i> L. Wilczek)	International	30/12/2024	Nature
56	Hina Bansal	Characterization of natural compounds derived from diatom <i>C. gracilis</i> as potential therapeutic agents: An in-silico networking and docking study	International	01/10/2024	Elsevier
57	Hina Bansal	Exploring antiepileptic phytochemicals of <i>Ferula assafoetida</i> and underlying molecular mechanism using a combined approach of network pharmacology and molecular docking	International	29/05/2025	Elsevier
58	Jasleen Gund	Functional switching among dynamic neuronal hub-nodes in the brain induces maintenance/transition of cognitive states	International	30/01/2025	Springer Open
59	Jitender Kumar	Genomics-assisted stacking of waxy1, opaque2, and crtRB1 genes for enhancing amylopectin in biofortified maize for industrial utilization and nutritional security		20/01/2025	Springer Nature
60	Kirti Sharma	Notch sight review on use of antimicrobial nano preparations as immunity agro-booster for production of diseased free <i>Solanum tuberosum</i> crop plant	International	08/08/2024	MedCrave Publication Group
61	Kirti Sharma	Insights of antimicrobials and their clinical implications	International	30/08/2024	MedCrave Publication Group
62	Kirti Sharma	"Different electrode system based electrochemical aptasensor for the detection	International	17/07/2024	KeAI publication house, China

		of dengue virus antigen in human serum: A comparative study"			
63	Kirti Sharma	Succinct review on emergent crisis of antibiotics resistant (MDR) bacteria: impact on human health worldwide	International	22/10/2024	MedCrave Publication House
64	Kirti Sharma	Precipitated probe on aetiology of MRSA skin infections: a global concern	International	23/12/2024	MedCrave Publication House
65	Kirti Sharma	Stipulated notched nutritional blueprint of ameliorating ocular health and prolonged healthy vision	International	19/03/2025	MedCrave Publication House
66	Kumud Bala	Multifarious Aspect of Cytokines as an Immuno-Therapeutic for Various Diseases	International	06/11/2024	Mary Ann Liebert Inc. Publishers
67	Kumud Bala	Cytotoxic potential of Hemp seed oil and molecular docking studies with inflammatory markers of diabetic cardiomyopathy	International	09/10/2024	Elsevier
68	Madhumita Ghosh	Auxillary effect of trolox on coenzyme Q10 restricts angiogenesis and proliferation of retinoblastoma cells viua the ERK/AKT pathway.	International	09/11/2024	Pubmed
69	Manoranjan Nayak	Performance evaluation of Chlorella sp. BRE5 for augmented biomass and lipid production implementing semi-continuous cultivation strategy	International	06/08/2024	Springer
70	Manoranjan Nayak	Enhanced carbon dioxide biofixation and lipid production of Chlorella sp. using alkali absorber and strategic carbon dioxide supply	International	23/11/2024	Springer
71	Manoranjan Nayak	Poultry litter extract as solid waste supplement for enhanced microalgal biomass production and wastewater treatment	International	09/01/2025	Springer
72	Manoranjan Nayak	Microalgae-based flue gas CO2 sequestration for cleaner environment and biofuel feedstock production: a review	International	14/01/2025	Springer
73	Manoranjan Nayak	A review on biosynthesis of nanoparticles via	International	07/02/2025	Springer

		microalgal technology and their biomedical applications			
74	Navaneet Chaturvedi	Unleashing the future: The revolutionary role of machine learning and artificial intelligence in drug discovery	International	15/12/2024	Pubmed, UGC, ICI and SCI/E
75	Navaneet Chaturvedi	Cyanobacteria-based bioremediation of environmental contaminants: advances and computational insights	International	27/03/2025	Springer
76	Panda Kumari	Assessment of genetic variability and principal component analysis (PCA) for rice starch viscosity traits	International	24/05/2025	Horizon e-Publishing Group
77	Preeti Kakkar	Recent technological advancements in biomass conversion to biofuels and bioenergy for circular economy roadmap	International	25/02/2025	Elsevier
78	Preeti Kakkar	Microalgae as an emerging alternative raw material of docosahexaenoic acid and eicosapentaenoic acid – a review	International	06/04/2025	Taylor and Francis
79	Puniti Mathur	In silico design of dehydrophenylalanine containing peptide activators of glucokinase using pharmacophore modelling, molecular dynamics and machine learning: implications in type 2 diabetes	International	31/12/2024	Springer Nature
80	Puniti Mathur	In-silico prediction of coat protein structure of Indian citrus ringspot virus and their interactions with the Argonaut2/DCL4 proteins.	International	08/01/2025	Springer Nature
81	Rachana Singh	Global insights into biochar: Production, sustainable applications, and market dynamics	International	01/03/2025	Pergamon
82	Rachana Singh	Endocrine Disrupting Chemicals: An Overview of Their Toxicity and Implications	International	19/01/2025	Islamic Azad University
83	Rachana Singh	Comprehensive journey from past to present to future about seed priming with hydrogen peroxide and hydrogen sulfide concerning drought, temperature, UV and ozone stresses- a	International	01/07/2024	Springer

		review			
84	Rajeev Kumar	Deciphering the frontiers of stem cell research in regenerative medicine.	International	11/07/2024	ScienceIN Publishing
85	Rajeev Kumar	Parthenium hysterophorus: Unveiling Harmful Impacts, Beneficial Potentials, and Novel Management Approaches.	International	18/06/2024	Islamic Azad University
86	Rajeev Kumar	Banana Cultivation and Micropropagation in India: Addressing Challenges and Exploring Future Prospects.	International	31/10/2024	Scientific Horizon
87	Rajeev Kumar	An efficient method for extracting pure DNA from the oil seed crop Sesamum indicum L.	International	01/11/2024	PubMed
88	Rajpal Srivastav	"Exploring the Potential of Ellagic Acid in Gastrointestinal Cancer Prevention: Recent Advances and Future Directions"	International	31/08/2024	Springer
89	Rajpal Srivastav	"Precision nutrition-based strategy for management of human diseases and healthy aging: current progress and challenges forward."	International	08/08/2024	Frontiers
90	Ravi Singh	Achyranthes aspera-Mediated Reduction of Silver and Iron Nanoparticles for Therapeutic Applications	International	10/10/2024	Malque Publishing
91	Ravi Singh	Synergistic Enhancement of Cauliflower Yield: Harnessing Phosphate-Solubilizing Bacteria and Nitrogen-Fixing Microbes for Sustainable Agriculture	International	25/11/2024	JPAM
92	Ravi Singh	Giloy Mediated Copper Nanoparticles: Their Bioactive Components, Medicinal Properties, and Species-Specific Antibacterial Efficacy	International	30/12/2024	IENT Publications
93	Ravi Singh	From data to cures: Leveraging machine learning, deep learning and pharmacore modelling for targeted therapies	International	05/02/2025	AIP Publishing
94	Ravi Singh	Transforming brain research: Neuroimaging breakthroughs driven by AI	International	05/02/2025	AIP Publishing

95	Ravi Singh	AI-enhanced patient-centric clinical trial design	0	05/02/2025	AIP Publishing
96	Ravi Singh	Tinospora cordifolia - A Future Green Material for Copper Oxide Nanoparticle-based Drug, Reduces the Risk of Diabetes and Cancer	International	28/02/2025	Informatics Journals
97	Ravi Singh	Achyranthes aspera -mediated reduction of silver and iron nanoparticles for therapeutic applications	International	01/02/2025	Malque Publishing
98	Ravi Singh	Whole-Genome Insights into the Probiotic Prospects of <i>Blautia producta</i>	International	17/02/2025	Mary Ann Liebert, Inc.
99	Ravi Singh	Optimizing Formulation and Economic Evaluation of Phosphate Solubilizing Bacteria for Enhanced Cauliflower Growth and Yield	International	23/04/2025	ABAP
100	Ravi Singh	Green synthesis of silver nanoparticles using marigold flowers extract for eco-friendly management of root knot nematode	International	10/04/2025	Elsevier
101	Ravi Singh	Microalgae as an emerging alternative raw material of docosahexaenoic acid and eicosapentaenoic acid – a review	International	06/04/2025	Taylor & Francis
102	Ravi Singh	Nanosensors for Monitoring and Detecting Nanoparticle Effects on Crops	International	30/03/2025	iENT.
103	Riti Kapoor	Riti Thapar Kapoor, Mohd Rafatullah,	International	01/01/2025	Elsevier
104	Riti Kapoor	Sequestration of reactive orange 16 dye by nitrogen-impregnated terminalia arjuna seed biochar: insights into kinetics, thermodynamics, reusability, and phytotoxicity assessment.	International	08/01/2025	ChemistryEurope
105	Riti Kapoor	In silico identification and characterization of pathogenicity genes in Colletotrichum spp. causing anthracnose in cucumber.	International	13/01/2025	Scopus
106	Sarika Saxena	"Structural analysis of peptide identified from the 2KRR domain of the nucleolin protein with a c-Myc G4 structure using biophysical and	International	02/07/2024	Royal Society of Chemistry

		biochemical methods"			
107	Seema Bhatnagar	Drug Repurposing: A Conduit to Unravelling Metabolic Reprogramming for Cancer Treatment	International	17/01/2025	Bentham Science Publishers
108	Seneha Santoshi	Molecular aspects of BRAF and HER2 in prognosis of periampullary carcinoma	International	01/11/2024	Elsevier
109	Seneha Santoshi	Characterization of natural compounds derived from diatom <i>C. gracilis</i> as potential therapeutic agents: An in-silico networking and docking study	International	01/10/2024	Elsevier
110	Seneha Santoshi	Molecular interaction of quercetin and its derivatives against nucleolin in breast cancer:Â in-silicoÂ andÂ in-vitroÂ study	International	11/03/2025	Taylor and Francis
111	Shashi Sharma	Sustainable Approach for Degradation of Low-Density Polyethylene Plastic Waste Using Ligninolytic White Rot Fungus	International	02/12/2024	Wiley-VCH GmbH
112	Shashi Sharma	"Solubilization and enhanced degradation of benzene phenolic derivatives—Bisphenol A/Triclosan using a biosurfactant producing white rot fungus <i>Hypocrea lixii</i> S5 with plant growth promoting traits."	International	18/09/2024	Frontiers Media SA
113	Taru Singh	Unveiling malaria vectors: species complex and Odisha, India	International	07/04/2025	BMC
114	Taru Singh	Antimicrobial stewardship implementation in primary and secondary tier hospitals in India: interim findings from a need assessment study using mixed method design	International	01/11/2024	Nature
115	Taru Singh	Unveiling malaria vectors: species complex and Odisha, India	International	07/04/2025	BMC
116	Taru Singh	Antimicrobial stewardship implementation in primary and secondary tier hospitals in India: interim findings from a need assessment study using mixed method design	International	01/11/2024	Nature

117	V Pooja	"Integrating In-silico and In-vitro approaches to identify plant-derived bioactive molecules against spore coat protein CotH3 and high affinity iron permease FTR1 of Rhizopus oryzae"	International	23/08/2024	Elsevier
118	V Pooja	Exploring the Antimicrobial Potential of Hesperetin: A Study on Clinically Relevant Bacterial and Fungal Pathogens	International	03/03/2025	JPAM
119	V Pooja	Systems Biology Approach Reveals Succinyl-CoA and Hydroxycitrate as potential therapeutics for the treatment of Vulvovaginal Candidiasis	International	03/01/2025	Elsevier
120	V Pooja	In-vivo transplantation of intrahepatic cholangiocyte organoids with decellularized liver-derived hydrogel support hepatic cellular proliferation and differentiation in chronic liver injury	International	27/11/2024	RSC
121	V Pooja	Injectable Hydrogels for Liver: Potential for Clinical Translation	International	17/11/2024	ACS
122	Vivek Gaur	Unlocking the Potential of Food Waste Chemistry for Biodegradable Plastics Production: Recent Advancements, Perspectives, and Life-Cycle Assessment	International	08/12/2024	Elsevier
123	Vivek Gaur	Microbiome divergence across four major Indian riverine water ecosystems impacted by anthropogenic contamination: A comparative metagenomic analysis "Exploring the Potential of Ellagic Acid in Gastroi	International	30/12/2024	Springer
124	Vivek Gaur	Advancement in lignocellulolytic enzyme production: tailored strategies to overcome challenges in biomass hydrolysis	International	04/03/2025	Springer Nature Singapore
125	Vivek Gaur	Energy metabolism coordination for the byproduct-free biosynthesis of 1, 3-propanediol in Escherichia coli	International	07/02/2025	Elsevier

126	Vivek Gaur	Ecotoxicological impact of succinate dehydrogenase inhibitor (SDHI) fungicides on non-targeted organisms: a review	International	22/01/2025	Springer
127	Vivek Gaur	Advancing bioremediation: biosurfactants as catalysts for sustainable remediation	International	16/04/2024	Elsevier
128	Vivek Gaur	Yashika Raheja, Varinder Singh, Vivek Kumar Gaur, Gaurav Sharma, Adrian Tsang, Bhupinder Singh Chadha	International	03/04/2025	Springer
129	Deepshikha P Katare	Simultaneous expression of MUC13 and N-Myc contributes to diethylnitrosamine-induced hepatocellular carcinoma in rats	International	21/04/2025	AACR
130	Deepshikha P Katare	Global, regional, and national burden of epilepsy, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021	International	01/03/2025	Elsevier
131	Ruchi Jakhmola-Mani	Exploring Machine Learning Algorithms for Gene Function Prediction in Crops	International	22/11/2024	John Wiley & Sons, Ltd
132	Deepshikha P Katare	Comprehending the Rationale for Repurposing Type 2 Diabetes Mellitus Medicines for Alzheimer's Disease Patients Via Gene Networks Studies and its Associated Molecular Pathways	National	30/09/2024	Oriental Scientific Publishing Company (OSPC)
133	Soom Nath Raina	The nano-paradox: addressing nanotoxicity for sustainable agriculture, circular economy and SDGs	International	24/04/2025	BioMed Central
134	Praveen Dahiya	Navigating the dynamic landscape of SARS-CoV-2: The dual role of neutralizing antibodies, variability in responses, and strategies for adaptive pandemic control	International	09/09/2024	MDPI
135	Praveen Dahiya	Synergistic potential of essential oils with antibiotics for antimicrobial resistance with emphasis on mechanism of action: A review	International	21/09/2024	Elsevier
136	Praveen Dahiya	Chemical composition, antibacterial and antioxidant activities of Piper betle and	International	30/01/2025	Springer-Nature

		Anethum graveolens essential oils against Methicillin-resistant Staphylococcus aureus clinical isolates			
137	Praveen Dahiya	Drug repurposing using computational tools and preventive strategies for COVID-19 and future pandemics	International	05/10/2024	Sage Journals
138	Deepak Ganjewal	Exploring antiepileptic phytochemicals of Ferula assafoetida and underlying molecular mechanism using a combined approach of network pharmacology and molecular docking	International	29/05/2025	Elsevier
139	Deepak Ganjewal	Microbial Biotransformation of Geranyl Acetate Using Pseudomonas fluorescens Strain MTCC2421 and Investigations of the Underlying Pathways	International	05/05/2025	Springer-Nature
140	Deepak Ganjewal	Biotransformation of vinblastine into vincristine using a fungal endophyte Fusarium equiseti along with the assessment of its antiangiogenic properties	International	24/03/2025	De Gruyter
141	Deepak Ganjewal	Exploring the potential of two Pseudomonas species to produce vincristine from vinblastine via biotransformation	International	23/08/2024	Nature Publishing Group UK
142	Deepak Ganjewal	Geraniol and citral: recent developments in their anticancer credentials opening new vistas in complementary cancer therapy	International	26/07/2024	De Gruyter
143	Deepak Ganjewal	An update on the emerging neuroprotective potential of Moringa oleifera and its prospects in complimentary neurotherapy	International	01/05/2024	Elsevier
144	Deepak Ganjewal	Screening of Microorganisms Capable of Biotransforming Certain Monoterpenes Using Substrate Toxicity Test	International	01/03/2024	Academic Journal
145	Amit Kumar Chaurasia	Advancement in lignocellulolytic enzyme production: tailored strategies to overcome	International	03/03/2025	Springer Nature Singapore

		challenges in biomass hydrolysis			
146	Susmita Shukla	Studies on banana for propagation, conservation and genome analysis	International	14/01/2025	Taylor & Francis
147	Jitender Kumar	Unraveling the interactive effect of opaque2 and waxy1 genes on kernel nutritional qualities and physical properties in maize Zea mays L	International	27/01/2025	Nature
148	Nidhee Chaudhary	A Comprehensive Review on Sustainable Molecular Pharming of Plant Based Pharmaceuticals: Challenges and Future Prospects. Journal- Journal of Natural Remedies	International	28/01/2025	Informatics Publishing Limited, Natural Remedies Pvt. Ltd.
149	Nidhee Chaudhary,	Non-Receptor type Protein Tyrosine phosphatases and their role in controlling pathways related to Hepatocellular Carcinoma. Journal-Current Pharmaceutical Biotechnology, 26 (5), 654-664	International	01/08/2024	Bentham Science
150	Ajay Kumar	Precision nutrition-based strategy for management of human diseases and healthy aging: Current progress and challenges forward	International	09/08/2024	Frontiers
151	Ajay Kumar	Mitigation of salinity-induced adverse effects through exogenous application of gibberellic acid in turnip (Brassica rapa L.)	International	09/08/2024	Taylor and Francis
152	Ajay Kumar	Microbial derived surfactants: an ecofriendly, innovative, and effective approach for managing environmental contaminants	International	26-08-2025	Frontiers
153	Ajay Kumar	Pyrolysed maize feedstock utilization in combination with Trichoderma viride against Macrophomina phaseolina	International	26-08-2025	Nature
154	Dr.Deepshikha Pande Katare	Tiny Carriers, Tremendous Hope: Nanomedicine in the Fight against Parkinson's	international	22-06-2024	MDPI
155	Dr.Deepshikha Pande Katare	Leveraging xylose for sustainable lipid production and waste resource valorization.	international	03-11-2024	Common Ground Research Network

156	Dr.Deepshikha Pande Katare	greening india's fuel: bacillus velezensis daa1, a game-changer in sustainable lipid synthesis for bioenergy	International	3-11-2024	Faculty of Biotechnology and Food Sciences, Slovak University of Agriculture
157	Dr.Deepshikha Pande Katare	Chemical profiling of endangered Citrus macroptera leaf extracts and evaluation of its cytotoxic activity	indian	01-4-2024	Horizon e-Publishing Group
158	Dr.Deepshikha Pande Katare	Drug Repurposing and Molecular Insights in the Fight Against Breast Cancer	international	04-06-2024	Oriental Scientific Publishing Company
159	Dr.Deepshikha Pande Katare	Analysis of Inhibition Potential of Nimbin and its Analogs against NF-KB Subunits p50 and p65: A Molecular Docking and Molecular Dynamics Study	International	01-01-2024	Bentham science
160	Shoma Paul Nandi	Phytochemical analysis, stability, and antimicrobial activity of eighteen medicinal plants studied against five multi-drug resistant human pathogens	International	10-12-2024	European Journal of Clinical and Experimental Medicine

Books/Chapters/Journals/Conference proceedings of each institute in the following format (from July 2024 to April 2025)

Book / Book Chapter Published 2024 –2025							
S. No.	Name of Faculty/Scientist	Title of Book Chapter	Title of the Book	Book/Book Chapter	Research Level	Date of Publication	Name of Publisher
1	Banashree Bondhopadhyay	Empowering Maternal Health Through Soft Computing- Challenges	Modernizing Maternal Care With Digital Technologies	Book Chapter	International	01/07/2024	IGI Global

		and Opportunities:					
2	Abha Kumari	Nanomaterial mediated wastewater treatment: a new frontier in environmental remediation.	Microbiome-based decontamination of environmental pollutants.	Book chapter	International	19/11/2024	Elsevier
3	Abha Kumari	Green Technologies for Industrial Contaminants.	Green Technologies for Industrial Contaminants.	Book	International	12/04/2025	Scrivener
4	Ajay Kumar	Significance of nanofertilizers in enhancing agricultural productivity: Current perspective	Nanoparticles Synthesis by Soil Microbes Application in Plant Production and the Environment	Chapter	International	28/10/2024	Elsevier
5	Ajay Kumar	Microbiome nanoengineering to increase crop productivity	Nanoparticles Synthesis by Soil Microbes Application in Plant Production and the Environment	Chapter	International	29/10/2024	Elsevier
6	Ajay Kumar	Significance of nanofertilizers in enhancing agricultural productivity: Current perspective	Nanoparticles Synthesis by Soil Microbes Application in Plant Production and the Environment	Chapter	International	30/10/2024	Elsevier
7	Ajay Kumar	Nanoparticles Synthesis by Soil Microbes Application in Plant Production and the Environment	Nanoparticles Synthesis by Soil Microbes Application in Plant Production and the Environment	BOOK	International	31/10/2024	Elsevier
8	Ajay Kumar	Microbial Biocontrol Techniques	Microbial Biocontrol Techniques	Book	International	21/01/2025	Springer, Nature
9	Ajay Kumar	Screening of Microbial Biocontrol Agents Using Traditional and In	Microbial Biocontrol Techniques	Book chapter	International	22/01/2025	Springer, Singapore

		SilicoÂ Approaches					
10	Ajay Kumar	Microbial bioremediation of heavy metal approaches and advancement	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	03/02/2025	Elsevier
11	Ajay Kumar	Role of protozoa in the bioremediation of industrial wastewater.	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	03/02/2025	Elsevier
12	Ajay Kumar	Microbial enzymes in the bioremediation of environmental pollutants	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	03/02/2025	Elsevier
13	Ajay Kumar	Role of microbial synthesized biosurfactant in environmental contamination management.	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	03/02/2025	Elsevier
14	Ajay Kumar	Strategies for bioremediation of emerging pollutants: A green and sustainable environment	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	03/02/2025	Elsevier
15	Ajay Kumar	Enhancing lipid productivity in microalgae: Novel approaches for sustainable biofuel production	Microalgal Biofuels	Book chapter	International	21/02/2025	Elsevier
16	Ajay Kumar	Role of arbuscular mycorrhizal fungi in plant growth promotion and biotic stress management.	Mycoremediation and Phytostabilization	Book chapter	International	24/02/2025	Elsevier
17	Ajay Kumar	Mycorrhizal fungi and	Mycoremediation and	Book	International	24/02/2025	Elsevier

		nanotechnology for plant health	Phytostabilization	chapter			
18	Ajay Kumar	Microalgae: A sustainable tool for microplastic degradation	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	19/03/2025	Elsevier
19	Archana Tiwari	Role of Soil Algae in Bioremediation of Pollutants	Soil Algae	Book Chapter	International	08/02/2025	Springer Singapore
20	Archana Tiwari	Harnessing Nature's Nano-architects: Diatom Biosilica in Biomedical Innovations	Journal of Drug Delivery Science and Technology.	Research Article	International	01/03/2025	ELSEVIER
21	Archana Tiwari	Evaluating the nutraceutical and antioxidative potential of alginate beads entrapped marine diatoms	South African Journal of Botany	Research Article	International	01/04/2025	ELSEVIER
22	Archana Tiwari	Diatom Cell Wall: Nature Engineered Nanostructures	Diatom Cultivation for Biofuel, Food and High-Value Products	Book Chapter	International	01/03/2025	Wiley Online Library
23	Archana Tiwari	Diatom-Based Bioproducts and the Potential of Frustules in Drug Delivery	Diatom Photosynthesis: From Primary Production to High-Value Molecules	Book Chapter	International	01/04/2025	Wiley Online Library
24	Archana Tiwari	Algae Mediated Bioremediation	Synergistic Bacteria's Algae Efficiency in Remediation of Heavy Metals in Wastewater	Book Chapter	International	01/10/2024	Wiley
25	Banashree Bondhopadhyay	Role of Reactive Oxygen Species in Cellular Signalling: Insights into	The Role of Reactive Oxygen Species in Human Health and	Book chapter	International	01/01/2025	IGI Global

		Pathological Processes and Therapeutic Strategies	Disease				
26	Banashree Bondhopadhyay	Deep Learning for Tumor Classification: AI-Driven Diagnostic Decision-Making in Breast Cancer Imaging	Cancer Diagnosis, Treatment and Care: Reflections for the Education of Survivors and Healthcare Providers	Book chapter	International	01/04/2025	IGI Global
27	Banashree Bondhopadhyay	The Evolution of Artificial Intelligence in Healthcare: Transforming Personalized Medicine and Biosensor Engineering	" Convergence of Internet of Medical Things (IoMT) and Generative AI"	Book chapter	International	01/01/2025	IGI Global
28	Banashree Bondhopadhyay	Transformative Insights: Integrating IoMT With Generative AI for Personalized Medicine and Drug Discovery	" Convergence of Internet of Medical Things (IoMT) and Generative AI"	Book chapter	International	01/01/2025	IGI Global
29	Banashree Bondhopadhyay	" From Aroma to Efficacy: The Synergistic Power of Terpenes in Drug Potentiation for Cancer Therapeutics"	Analyzing Terpenes' Role in Cancer Treatment	Book chapter	International	01/03/2025	IGI Global
30	Banashree Bondhopadhyay	The Pill Problem: Legal and Regulatory Frameworks Addressing Oral Contraceptive Misuse	" Human- Centric Integration of Next-Generation Data Science and Blockchain Technology"	Book chapter	International	17/03/2025	Elsevier
31	Devlina Pramanik	Monitoring Microplastics and Nanoplastics in a Marine Realm	Microplastics in Environment	Book Chapter	International	15/11/2024	Taylor & Francis Group
32	Hina Bansal	Integration of IoT and Machine Learning in	Hybrid Soft Computing Techniques for Machine	Book Chapter	International	24/04/2025	IGI Global

		Biomedical Signal Processing	Learning and Optimization				
33	Hina Bansal	AI-Powered Emotion Detection: Understanding Facial Expressions through Deep Learning, AI for Product Development. https	AI for Product Development	Book chapter	International	07/04/2025	Taylor & Francis
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		Disaster Response: A Machine Learning Approach.	6.0 Towards Sustainability				
40	Hina Bansal	A Comprehensive and Intricate Dynamics of Aspergillus: Implications, Therapeutic Challenges, and Drug Resistance.	In Recent Advances in Human Fungal Diseases: Progress and Prospects	Book chapter	International	23/11/2024	Springer Nature
41	Hina Bansal	Artificial Intelligence-Powered Molecular Docking: A Promising Tool for Rational Drug Design. Artificial Intelligence and Machine Learning in Drug Design and Development,	Artificial Intelligence and Machine Learning in Drug Design and Development	Book chapter	International	25/10/2024	scrivener
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44	Hina Bansal	Status Review of Emerging Neuroprotective Potential of Moringa Oleifera and Desmodium Gangeticum.	.Â Medicinal Plants for the Management of Neurodegenerative Diseases	Book chapter	International	15/12/2024	CRC Press
45	Hina Bansal	Artificial Intelligence Techniques to Design Epitope-Mapped Vaccines and Diagnostics for	InÂ Handbook of AI-Based Models in Healthcare and MedicineÂ	Book chapter	International	06/12/2024	CRC Press

		Emerging Pathogens.					
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48	Kumud Bala	Revolutionizing Wound Management: Formulating Nanoparticles with Tobacco Stem Bioactive Compounds	Revolutionizing Wound Management: Formulating Nanoparticles with Tobacco Stem Bioactive Compounds	Book	International	28/03/2025	Cambridge Scholar Publishing
49	Mahjabin	Nanobiotechnology marvels: Unveiling the microbial alchemy of nanoparticle synthesis	Nanoparticles Synthesis by Soil Microbes	Book Chapter	International	22/11/2024	Science Direct
50	Mahjabin	Omics Technologies: Revolutionizing Discovery of Antimicrobial Phytochemicals from Medicinal Plants	Phytomolecules as a Source for Drug Discovery: Antimicrobials from Medicinal Plants	Book Chapter	International	03/04/2025	Cambridge Scholar Publishing
51	Nahid Siddiqui	Radiant Insights: AI's Influence on Medical Imaging	Revolutionizing Medical Imaging with Computer Vision and Artificial Intelligence	Book Chapter	International	01/10/2024	Cambridge Scholars Publishing
52	Navaneet Chaturvedi	AI-driven microbial medicine development.	Methods in Microbiology	Book Chapter	International	01/08/2024	Elsevier

53	Navaneet Chaturvedi	Leveraging artificial intelligence (AI) and machine learning (ML) for enhanced drug discovery and development from microbe	Methods in Microbiology	Book Chapter	International	01/08/2024	Elsevier
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56	Navaneet Chaturvedi	Microbial bioremediation of heavy metal approaches and advancement	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	04/02/2025	Elsevier
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67	Puniti Mathur	AI-driven antimicrobial peptides for drug development	Methods in Microbiology book series	book chapter	International	12/02/2025	ELSEVIER
68	Rachana Singh	Microbial Degradation of Textile Dyes: A Sustainable Approach for Treatment of Industrial Effluents	Green Technologies for Industrial Contaminants	Book Chapter	International	16/02/2025	John Wiley & Sons, Inc.

69	Rachana Singh	Microbial enzymes in the bioremediation of environmental pollutants	Advances in Chemical Pollution, Environmental Management and Protection	Book Chapter	International	03/02/2025	Elsevier
70	Rachana Singh	Recent advancements in the removal of hazardous contaminant from wastewater	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	10/12/2024	Elsevier
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72	Rachana Singh	Sustainable nanomaterials for chromium removal from wastewater	Advances in Chemical Pollution, Environmental Management and Protection	Book chapter	International	04/12/2024	Elsevier
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76	Rajpal Srivastav	" Microbial Adaptation in Different Extreme	Extremophiles for Sustainable Agriculture	Book Chapter	International	16/12/2024	Springer

		Environmental Conditions and Its Usefulness in Differently Polluted "	and Soil Health Improvement				
77	Rajpal Srivastav	" Genomic and metagenomic prospecting of extremophiles to support sustainable development"	Extremophiles for Sustainable Agriculture and Soil Health Improvement	Book Chapter	International	16/12/2024	Springer
78	Rajpal Srivastav	Microbial Biocontrol Techniques. Microorganisms for Sustainability	Multifunctional Nanocomposites Enhance Biotherapeutics Sensitivity in Replication-Associated Diseases	Book Chapter	International	21/01/2025	Springer
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83	Ritu Chauhan	Artificial intelligence-powered agriculture and sustainable practices in	Hyperautomation in Precision Agriculture	Book chapter	International	01/01/2025	Academic Press

		developing countries					
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87	Seneha Santoshi	The Evolution of Artificial Intelligence in Healthcare: Transforming Personalized Medicine and Biosensor Engineering	" Convergence of Internet of Medical Things (IoMT) and Generative AI"	Book chapter	International	01/01/2025	IGI Global
88	Seneha Santoshi	Transformative Insights: Integrating IoMT With Generative AI for Personalized Medicine and Drug Discovery	" Convergence of Internet of Medical Things (IoMT) and Generative AI"	Book chapter	International	01/01/2025	IGI Global
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		and Drug Resistance.					
91	Seneha Santoshi	Artificial Intelligence-Powered Molecular Docking: A Promising Tool for Rational Drug Design. Artificial Intelligence and Machine Learning in Drug Design and Development,	Artificial Intelligence and Machine Learning in Drug Design and Development	Book chapter	International	20/11/2024	Scrivener
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