



**SHRI RAWATPURA SARKAR UNIVERSITY
RAIPUR (C.G.)**

**Climate Resilience through a Multidisciplinary Approach:
The Role of Biological and Physical Sciences
in Sustainable Development
(CRMA 2025)**

March 06 - 07, 2025

**Proceeding of the International Conference
(A Collection of Conference Abstracts)**

Editors

Dr. R.P. Rajwade
Dr. Surendra kumar Gautam
Dr. Anubhuti Koshle
Dr. A. K. Sarkar

Organized by

Faculty of Science

Shri Rawatpura Sarkar University

Under the Aegis of Internal Quality Assurance Cell (IQAC)

Message of Chancellor

I am profoundly happy to learn that Faculty of Science, Shri Rawatpura Sarkar University, Raipur is organizing the International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” 6 – 7th March 2025

This multidisciplinary approach will advance our understanding of complex problems and drive innovation towards more sustainable and equitable solutions. The conference will provide scope to enhance scientific and research activities in the University and also it would provide valuable and informative ideas to the participating students, researchers and academicians.

I convey my best wishes for the success of the event

Anant Vibhushit
Shri Ravishankar Ji Maharaj
(Shri Rawatpura Sarkar)

Honorable Chancellor
Shri Rawatpura Sarkar University, Raipur



Message of Pro Chancellor

It gives me immense pleasure to know that Faculty of Science, Shri Rawatpura Sarkar University, Raipur is going to organize an International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” 6–7th March 2025.

The International Conference will offer a premise for experts to gather and interact intensively on the theme covering various fields of Science and Technology and the deliberations will derive multifold benefits for students, researchers and academicians of India and abroad.

I congratulate the Faculty of Science, Shri Rawatpura Sarkar University, Raipur for bringing out the souvenir and at the same time wish them success in their entire future endeavor.

I wish the International Conference a great success

S. S. Bajaj

Pro-Chancellor

Shri Rawatpura Sarkar University, Raipur

Message of Vice Chancellor

I am delighted to know that that Faculty of Science is going to organize an International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” (CRMA 2025) on March 06 - 07, 2025.

This conference stands as a testament to our shared commitment to advancing knowledge, innovation and collaboration in science and technology. This conference aims at the critical synergy between biological and physical sciences in addressing climate challenges. By fostering innovation and collaboration across disciplines, we can develop sustainable solutions for a resilient future.

I commend the organizers, researchers, and participants for their dedication to this vital cause. May this conference spark new ideas, foster meaningful connections and leave a lasting impact on the academic and professional journeys of all the participants inspire meaningful discussions and impactful actions toward global sustainability.

I wish a grand success to the Conference.

Prof. S.K. Singh
Vice-Chancellor
Shri Rawatpura Sarkar University, Raipur





Message of Registrar

I am delighted to extend my warm greetings to all participants of *CRMA 2025 – Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development*, being held on 6th–7th March. This conference serves as a vital platform for researchers, academicians, and industry experts to exchange ideas and innovative solutions for addressing climate challenges through an interdisciplinary lens.

The urgency of climate resilience necessitates a collaborative approach, integrating insights from biological and physical sciences to drive sustainable development. By fostering dialogue and research across diverse scientific domains, we can contribute to a greener, more sustainable future. I deeply appreciate the efforts of the organizing committee for curating this intellectually stimulating event, which will undoubtedly lead to impactful strategies for climate adaptation and mitigation.

I encourage all participants to engage actively, exchange knowledge, and forge meaningful collaborations that will pave the way for transformative change. May this conference inspire groundbreaking research and solutions that benefit both present and future generations.

Wishing you all a successful and enriching *CRMA 2025*!

Dr. Saurabh Sharma

Registrar

Shri Rawatpura Sarkar University, Raipur

Message of Dean Academics

It is with great pride and enthusiasm that I welcome all the participants to the International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” scheduled during 6th, 7th March 2025. The conference serves as an essential platform for fostering academic excellence, interdisciplinary collaboration and innovative research in addressing the pressing challenges of climate change and sustainability.

The integration of biological and physical sciences is crucial in developing strategies for climate resilience. Through this conference, we aim to encourage meaningful discussions, exchange of knowledge and groundbreaking research that will contribute to a sustainable future.

I extend my sincere appreciation to all researchers, academicians and industry experts for their contributions. I am very much confident that the deliberations and insights shared during this event will lead to transformative advancements in climate science and sustainable development.

I wish for the grand success of the conference.

Dr. R. R. L. Birali

Dean Academic

Shri Rawatpura Sarkar University, Raipur





Prof. Anubhuti Koshle



Prof. Satyaj Tiwari



Prof. A.K. Sarkar

It is our great pleasure to welcome all participants to the International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development”, scheduled for 6th – 7th March 2025. This conference aims to bring together researchers, academicians, and industry experts to discuss the latest advancements and interdisciplinary strategies for addressing climate resilience and sustainability challenges.

With the increasing global focus on climate change mitigation and adaptation, this conference provides a vital platform for exchanging ideas, fostering collaborations, and exploring innovative research approaches. The integration of biological and physical sciences is essential in developing sustainable solutions, and we hope this event will inspire meaningful discussions and impactful research contributions.

We extend our gratitude to all contributors and participants for making this conference a success. We look forward to insightful deliberations that will drive positive change toward a resilient and sustainable future.

Dr. Anubhuti Koshle, Dr. Satyaj Tiwari and Dr. Ashis K. Sarkar
Conveners
Shri Rawatpura Sarkar University Raipur



Dr. R.P. Rajwade



Dr. S.K. Gautam



Dr. Rishi Jaiswal

It is our pleasure to welcome you to the International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development”, taking place on 6th – 7th March 2025. This conference is designed to explore emerging challenges in climate resilience through a multidisciplinary perspective, integrating the expertise of biological and physical sciences.

We envision this conference as a hub for exchanging ideas, discussing innovative research, and fostering collaborations that can lead to sustainable solutions for climate adaptation and mitigation. Through diverse sessions, we aim to encourage dialogue on critical scientific advancements and policy interventions for a sustainable future.

We express our sincere gratitude to all speakers, participants, and contributors for making this event possible. We look forward to engaging discussions and impactful research presentations.

Dr. R.P. Rajwade, Dr. S.K. Gautam and Dr. Rishi Jaiswal
Co-Conveners
Shri Rawatpura Sarkar University Raipur



Dr. Piyush Jha



Dr. Madhavi Pandey



Dr. Namita Gajendra

Dear Participants,

It is our immense pleasure to welcome you to **CRMA 2025 – International Conference on Climate Resilience through a Multidisciplinary Approach**, organized by the Faculty of Science, Shri Rawatpura Sarkar University, Raipur (C.G.). This conference aims to bring together leading experts, researchers, and professionals from diverse scientific domains to address the critical challenges of climate resilience and sustainable development.

CRMA 2025 provides a unique platform to explore cutting-edge advancements in **Biological and Physical Sciences, Climate Resilience, AI & Computational Science, Nanotechnology, and many more multidisciplinary fields**. With distinguished keynote speakers, engaging discussions, and high-impact research presentations, we anticipate an enriching exchange of knowledge and ideas.

We encourage you to actively participate, present your research, and connect with global scholars. Selected papers will have the opportunity for publication in **Indexed Journals**. We extend our sincere gratitude to all contributors, organizing members, and participants for making this event possible. Looking forward to welcoming you to **CRMA 2025** and witnessing inspiring discussions that will shape the future of sustainable science and technology.

Dr. Piyush Jha, Dr. Madhavi Pandey and Dr. Namita Gajendra
Organizing Secretary
Shri Rawatpura Sarkar University Raipur

Message from Editor in Chief

It gives me immense pleasure to share the experience of almost 5 Year 7 months in Shri Rawatpura Sarkar University Raipur. Faculty of Science organizing the International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” 6 – 7th March 2025

The main objective of this seminar is to bring together academics, researchers and industry delegates under one roof to address challenges in areas such as healthcare, energy, and environmental sustainability.

The National Seminar will also provide a platform to the under graduate and post graduate students, research scholars, experts and industry delegates to keep their views in these areas and to help the community of the civilized world for the betterment and sustainable development to the human-kind.

I truly thank Parampujya Shri Ravishankar Maharaj Shri for his blessings and Mr. S.S. Bajaj, Pro-Chancellor, Prof. S. K. Singh, Vice Chancellor, Dr. Saurabh Kumar Sharma, Registrar, Prof. R.L.L. Birali, Dean Acedemics and Mr. M.K.Singh, HR for his unconditional support and patience.

I congratulate all CRMA2025 team members and colleagues for organizing the International Conference and convey my heartiest greetings to the delegates and participants.

Dr. R. P. Rajwade

Editor in Chief & Co-convenor (CRMA 2025)

Shri Rawatpura Sarkar University Raipur



Message from the Editor

It is a privilege to present the abstract book for the International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development”, organized by the Faculty of Science, Shri Rawatpura Sarkar University, Raipur, on 6th – 7th March 2025.

This conference aims to bring together academicians, researchers, and industry experts to explore innovative solutions for global challenges in healthcare, energy, and environmental sustainability. It also provides a platform for students, scholars, and professionals to share knowledge and contribute to sustainable development.

I extend my sincere gratitude to university leadership, organizers, and contributors for their unwavering support in making this event possible. I also congratulate the CRMA2025 team for their dedication.

Wishing all participants a successful and insightful conference!

Dr. Surendra Kumar Gautam

Editor & Co-Conveners (CRMA 2025)

Shri Rawatpura Sarkar University Raipur



Organizing Committee

Chief Patron

Anant Vibhushit
Shri Ravishankar Ji Maharaj
(Shri Rawatpura Sarkar)
Honourable Chancellor
Shri Rawatpura Sarkar University Raipur

Patrons

Mr. S.S. Bajaj
E.D. SRLKT & Pro-Chancellor

Prof. (Dr.) S.K. Singh
Vice Chancellor

Co-Patrons

Prof.(Dr.) Saurabh K. Sharma
Registrar

Prof. R.L.L Birali
Dean, Academics

Conveners

Prof. Anubhuti Koshle
Dean, Faculty of Science

Prof. A. K. Sarkar
Head, Department of Applied Sciences

Prof. Satyaj Tiwari
DSW & Head Mathematics, SRU, Raipur

Co-Conveners

Dr. R.P. Rajwade
Dean, Research & Development

Dr. Surendra Kumar Gautam
Head, Department of Life science

Dr. Rishi Jaiswal
Head, Department of Physics

Organizing Secretaries

Dr. Piyush Jha
Associate Professor, Department of Physics

Dr. Madhavi Pandey
Assistant Professor, Department of Applied Science

Dr. Namita Gajendra
Assistant Professor, Department of Life science

Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development

Editorial Board

Dr. Piyush Jha
Dr. Madhavi Pandey
Dr. Rishi Jaiswal
Dr. Dhanjay Tandon
Dr. Satyaj Tiwari

Organizing Committee

Dr. Sonal Choubey	Dr. Hitesh Dewangan
Dr. Rupal Purena	Dr. Khushbu Verma
Dr. Namita Gajendra	Dr. Ayantika Pal
Dr. Sagar Sahu	Mrs. Misha Martin
Ms. Pratibha Chokhi	Ms. Dipali Sahu
Ms. Supriya Kesharwani	Ms. Neha Verma
Ms. Ramautin Kurre	Mr. Lokesh Yadav
Mr. Tikeshwar Lal Sahu	Mr. Tamesh Sahu
Ms. Minakshi Shukla	Ms. Yogita Sahu
Ms. Pratima Sahu	Ms. Neha Verma
Mr. L.N. Tiwari	Mr. Om Prakash Patel
Mr. Dushyant Bais	Mr. Devil Sahu
Mr. Indrajeet Sahu	Ms. Rupali Verma

Scientific and Technical Committee

Dr. R. P. Rajwade
Dr. A. K. Sarkar
Dr. Anubhuti Koshle
Dr. Surendra Kumar Gautam
Dr. Piyush Jha
Dr. Madhavi Pandey
Dr. Dhanjay Tandon
Dr. Namita Gajendra



Keynote Speakers

S.No.	Title & Authors	Lecture ID	Pages
1	Cellular Effects of Gamma Radiation and Water-Soluble Cigarette Smoke Components on RPE-1 Cells Dr. Prabodha Kumar Meher	CMRAKN01	1
2	Development of upconverting nanophosphors for Temperature sensing applications Prof. Dr. R P Patel	CMRAKN02	2
3	Indian Knowledge System: Bharat Me Rasayan Vigyan Ki Parampara Prof. Santosh Kumar Srivastava	CMRAKN03	3
4	Heat-up and gram-scale synthesis of Cu-poor CZTS Nanocrystals Dr. Santosh Kumar Verma	CMRAKN04	4
5	Land use dynamics and C stock changes: Exploring pathways for C Neutrality Dr. Tarun Kumar Thakur	CMRAKN05	5
6	Renewable Energy and Integration Systems for Sustainable Development Prof. Kamlesh Patel	CMRAKN06	6
7	Fungal Biotechnology: A Sustainable Approach to Bio-Economy Generation Dr. Kamlesh Shukla	CMRAKN07	7
8	Integrating Biological Sciences for Climate Resilience and Sustainable Development: A Multidisciplinary Perspective Prof. Mahesh Prasad Thakur	CMRAKN08	7A

Oral Presentations

S. No.	Title & Authors	Paper ID	Pages
8	Aflatoxin contamination in major regional crops during pre and post harvesting period in India-An overview. Renuka and Snehalata Das	CMRAOP01	8
9	Environmental Assessment and Management through Multispectral Remote Sensing Techniques Iram Jahan and Sushant Singh	CMRAOP02	9
10	Characterization of the Performance of OPSCs Using Lead-Methylammonium Halide by Spin Coating Method Sagar Ku. Sahu	CMRAOP03	10

11	Luminescence Properties of Europium doped Silicates Phosphors: Review Tamesh Kumar and Piyush Jha	CMRAOP04	11
12	Estimation of postmortem interval of a human cadaver from <i>Chrysomya megacephala</i> Anupama Meshram , Ayantika Pal	CMRAOP05	12
13	Biology of Parthenium beetle, <i>Zygogramma bicolorata</i> in the plane agro-climatic zone of Chhattisgarh Ranjan Lal	CMRAOP06	13
14	Dilithium as a Thrshold Signature Scheme Bhupendra singh and Satyaj Tiwari	CMRAOP07	14
15	Isolation and identification of pathogens responsible for bloodstream infections and their antibiotic susceptibility patterns Jasmine Parveen, Dhananjay Tandon, Chaitanya Nigam, Rupam Nigam	CMRAOP08	15
16	Assessment of Antimicrobial Resistance in <i>Klebsiella pneumoniae</i> Pallavi Shukla and Dhananjay Tandon	CMRAOP09	16
17	Biohydrogen: An Alternate green energy source Veena Thakur	CMRAOP10	17
18	Molecular Analysis Through ¹³ C And Proton Nuclear Magnetic Resonance Technique Rekhram and Sandhya Rani Panda	CMRAOP11	18
19	Synergistic Activity of <i>Sphaeranthus indicus</i> with Amoxicillin against Multiple Drug-Resistant <i>Staphylococcus aureus</i> for Combating Antimicrobial Resistance Dipali Yadav, Subhashish Saha and Alka Ekka	CMRAOP12	19
20	Pollutans Water Analysis for Carbon-Based Nanomaterials Seecharan Banjare, Sandhyarani Panda	CMRAOP13	20
21	Comparative Diversity and Habitat Preferences of Different Jumping Spider Genera in Dongargarh block, Chhattisgarh Wishesh Kumar Sahu and Surendra Kumar Gautam	CMRAOP14	21
22	Diversity of Spiders and Their Web Structures in Different Habitats of Mahasamund District Urwash Chandrakar and Ayantika Pal	CMRAOP15	22
23	Conservation Status and Behaviour Study of Six Herbivore Species at Nandanvan Jungle Safari Seithati Ella Molupe	CMRAOP16	23

International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” March 6 – 7, 2025 at Shri Rawatpura Sarkar University, Raipur -492015, Chhattisgarh, India

24	Study of Municipal Solid Waste Management in Raipur City and its impact on climate Neetu Sharma and Anubhuti Koshle	CMRAOP17	24
25	Review on Luminescence Properties of Europium doped Gadolinium Phosphors Akash Sarkar, Piyush Jha, Ajay Narayan Sahu, Neha Sharma	CMRAOP18	25
26	Assessment of Acute and Sub-Acute Toxicity of Methanolic Seed Extract of <i>Acacia farnesiana</i> in Wistar Rats Sunil Kumar and Jasmeet Kaur Sohal	CMRAOP19	26
27	Abiotic factors influence patterns of hymenopteran diversity in Leafy vegetable field of kumhari, Durg. Ajay Singh and ashish Shraf	CMRAOP20	27
28	Green Synthesis of Zinc Oxide Nanoparticles From Siam Queen And Their Application In Biomedical Field Yukti Dewangan, Radha Krishnan	CMRAOP21	28
29	Common Prevaling Food Myths Among Hospitalized Patients and Effect of Dietary Counseling Tejaswini Bhure, Pratibha Chokhi, Chitranjan Yadav	CMRAOP22	29
30	Anticancer Properties of Marine Algal Secondary Metabolites: A Case Study of <i>Chhnospora minima</i> Pratibha Yadav and Rupal Purena	CMRAOP23	30
31	Review on Luminescence Properties of Rare Earth doped Barium Bismuth Phosphate Nikita Saha, Piyush Jha, Ajay Narayan Sahu, Neha Sharma	CMRAOP24	31
32	Exploring Bioactive Compounds in Curcuma Caesia: A Medicinal Plant Used by Bastar Tribes for Alcoholic Liver Disease Treatment Akhilesh Chandra, Madhavi Tiwari	CMRAOP25	32
33	Environmental Sustainability Challenges and Strategies for a Greener Future Varney Sekou Freeman, Anubhuti Koshle	CMRAOP26	33
34	Biodegradation of Plastic Contaminated Soil by Fungi: A Sustainable Approach to Soil Remediation Priti Roy, Madhavi Pandey	CMRAOP27	34
35	Phytofabrication Of Methanolic Extract Of Leaves Of <i>Costus Igneus</i> Plant V. Sai Tanushree Soni, Meghna Shrivastava	CMRAOP28	35

International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” March 6 – 7, 2025 at Shri Rawatpura Sarkar University, Raipur -492015, Chhattisgarh, India

36	Green Synthesis and Characterization of Silver Nanoparticles from <i>Eichhornia crassipes</i> Plant Pandari Dipti, Meghna Shrivastava	CMRAOP29	36
37	Comparative kinetic study of Oxidation of Cysteine and Methionine Hemlata sahu , Sandhya Rani Panda	CMRAOP30	37
38	Cytotoxic effect of polysaccharides of Mushrooms against MCF-7 cell line of Breast cancer Kanti Nage and Dhananjay Tandon	CMRAOP31	38
39	Security Of Iot Devices Using Lattice Based Cryptography Shweta Murkute	CMRAOP32	39
40	Organic Light Emitting Diodes (OLEDs) for White Light: Materials, Design, and Applications V.K.Chandra	CMRAOP33	40
41	Effect of Seasons On Feeding Patterns of Larvae of <i>Danaus chrysippus</i> Vibha Choubey , Shilpa Mishra , Harshita Singh Bais	CMRAOP34	41
42	Assessment of Depression Among School-Age Adolescents in a Rural Region of Raipur, Chhattisgarh Shahina Parveen, Namita, Surendra Kumar Gautam	CMRAOP35	42
43	Wearable Mechanoluminescent Sensor for Real-time Stress and Movement Monitoring Piyush Jha	CMRAOP36	43
44	Utilizing <i>Eichhornia crassipes</i> for Sustainable Bioplastic Production: A Phytoremediation-Based Approach Neha Pathak and Madhavi Tiwari	CMRAOP37	44
45	Study on <i>Terminalia chebula</i> - Mediated Synthesis of Silver Nanoparticles: Phytochemical Analysis, Characterization, and Antimicrobial Efficacy. Aakanksha Sharma, Neha Behar and Rupal Purena	CMRAOP38	45
46	Effect of Dy Concentration on Luminescence of NaCa (PO ₃) ₃ Phosphor Ajay Narayan Sahu and Piyush Jha	CMRAOP39	46
47	Relationship Between Pre-pregnancy Body Mass Index (BMI) with the Neonatal Birth Size: A Cross-Sectional Study of Bilaspur Chhattisgarh. Tanzeel Ansari and A.K. Sarkar	CMRAOP40	47
48	Plant-Based Oil: A Green Solution for Termite Control and Environment Sustainability Shivali Tiwari and Anju Meshram	CMRAOP41	48
49	Millets As Future Food And Environmental Health Indu Soni and Madhu Yamini Soni	CMRAOP42	49

50	Isolation, Screening, and Characterization of Oil-Degrading Fungi for Bioremediation Applications Aanchal Ware, Madhavi Pandey, Dhanjay Tadon , Rupal Purena, Khushbu Verma , Mish Martin and A.K. Sarkar	CMRAOP43	50
51	Used Engine Oil Degradation Potential Of <i>Phlebia</i> Sp. Mp 04 Mcc 9047, Isolated From Bastar Forest: An In-Depth Ftir And Sem Analysis Madhavi Tiwari and Ashish saraf	CMRAOP44	51
52	Understanding Sickle Cell Disease Causes Symptoms Treatment And Management Aaryan Pradhan and Om Prakash Patel	CMRAOP45	52
53	Peptide-Heterocycle conjugates: A novel trend of research to development of antibacterial drug against MRSA and bio-film assay Raksha Gupta, Anubhuti Koshle and Santosh Kumar Verma	CMRAOP46	53
54	Assessment of Energy Needs in Pregnant Women of Rural Areas of Chhura Block, Gariyaband, Chhattisgarh Pratima Sahu and Surendra Kumar Gautam	CMRAOP47	54
55	Diversity, Distribution, and Host Specificity of Epiphytic Lichens in Dhamtari District, Chhattisgarh Deepmala Suryawanshi and Surendra Kumar Gautam	CMRAOP48	55
56	Antimicrobial activity of Astemizole potentially clears up the <i>S. aureus</i> infection in <i>C. elegans</i> Siddhartha Kumar, Rakesh Kumar and Antresh Kumar	CMRAOP49	56
57	Fluoride Contamination in Chhattisgarh and Its Surrounding States Veronica C. Julue,	CMRAOP50	57
58	Nanomaterials for Enhancing Efficiency in Renewable Energy Systems Vinita Garg	CMRAOP51	58
59	Production of Biodegradable Bioplastic using <i>Ipomoea carnea</i> Ankita Redelwar	CMRAOP52	59
60	Mechanistic and Thermodynamic Insights into Hydroxamic Acid-Metal Interactions: A Comparative Study in Amphiphilic Systems Radha Krishnan	CMRAOP53	60
61	Insect Larvae as Biodegraders of Synthetic Plastics: Advances, Challenges, and Future Perspectives Ms. Ramautin Kurre, Namita Gajendra, Surendra Kumar Gautam	CMRAOP54	61

62	Efficient Removal of Heavy Metals from Water Using Micellar Systems Dukhit Ram Sahu , Deepti Tikariha Jangde , Radha Krishnan	CMRAOP55	62
63	Luminescence properties of Sm doped Gd ₂ Zr ₂ O ₇ Phosphor Neha Sharma*	CMRAOP56	63
64	Bioethanol production using <i>Saccharomyces Cerevisiae</i> from waste vegetables and fruits Suprity Saha, Dhananjay Tondon	CMRAOP57	64
65	3D-QSAR Studies on Antiproliferative Activity of Hydroxamic Acids against Breast Cancer Cells using the kNN-MFA method Nidhi Saju , R.P.Rajwade, D. Kumar	CMRAOP58	65
66	In Silico Molecular Docking and In Vitro Antidiabetic Studies of Hydroxamic Acids S Gupta, J. Diwan , A. Patel, D. Kumar, R.P.Rajwade	CMRAOP59	66
67	Chloroform fraction of <i>Parkia javanica</i> : a key immunomodulator possesses wound healing activity through macrophage activation Susmita Saha , Samir Kumar Sil	CMRAOP60	67
68	Nucleophilic Effect of Hydroxamate Ions Towards Phosphotriester in Aqueous and Micellar System H. K. Dewangan,	CMRAOP61	68
69	Microalgae-Based Indoor Air Purification: A Sustainable Approach to Climate Resilience Ishita Dey	CMRAOP62	69
70	Impact of pesticide residues in food on human health Khushboo Minj, Suman Masih Minj	CMRAOP63	70
71	Exploration of Post-COVID and Vaccination Effects on Health and Lifestyle: A Case Study Pragyan Verma, Loknath Deshmukh, Vishwanath Singh, Vikas Dilliwar	CMRAOP64	71
72	Innovative Approaches to Vector Control and Disease Prevention in Gariyaband District, Chhattisgarh Laxmikant* and P. Vishvanathan	CMRAOP65	72
73	Synthesis, Structural Characterization and Optical properties of Gd ₂ Si ₂ O ₇ :Eu ³⁺ :Er ³⁺ Phosphors Nandane Sahu , Pradeep Dewangan , Rishi Jaiswal	CMRAOP66	73
74	Unveiling the Secrets of <i>Ganoderma Mushrooms</i> : Cultivation, Healing Powers, and Future Frontiers Om Prakash, Madhavi Tiwari	CMRAOP67	74
75	The Effect of health and nutrition education intervention on women’s postpartum beliefs and practice in Basna, Mahasamund District Patibha Chokhi , Videh Nandini	CMRAOP68	75

International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” March 6 – 7, 2025 at Shri Rawatpura Sarkar University, Raipur -492015, Chhattisgarh, India

76	A Review of the Application of Artificial Intelligence in Water Quality Evaluation Shalini Singh, Anubhuti Koshle and Mithilesh Singh	CMRAOP69	76
77	Quantum Cryptanalysis of Ring-LWE Based Cryptosystems: Evaluating Vulnerabilities and Exploring Mitigations. Shivani Sharma, and Satyaj Tiwari	CMRAOP70	77
78	Role of the Beneficial Gut Microbiota Suman Masih Minj, and Khushboo Minj	CMRAOP71	78
79	Study of Phytochemicals of Cassia tora Linn. From Cuttack District of Odisha, India. Sitan Kumar Moharana , Sandhyarani Panda , Ashish Saraf, M. Satpathy	CMRAOP72	79
80	Integrating Biological and Physical Sciences for Climate Resilience: A Pathway to Sustainable Development Bhuneshwari, Sandhyarani Panda	CMRAOP73	80
81	Vitex negundo: A Medicinally Important Plant Bhavna Yadav ,Niharika Dewangan , Seema Verma	CMRAOP74	81
82	AI-Driven Drug Discovery: Revolutionizing Medicinal Chemistry Shalini Singh, R.P. Rajwade, Mithilesh Singh	CMRAOP75	82
83	Sequence Analysis and Serotype Distribution of Dengue Virus in Bastar District of Chhattisgarh Rani Soni , Dhananjay Tandon, Sahina Hassan, Debashish Samal	CMRAOP76	83
84	Economic Feasibility of Bioethanol Production from Millet Husk Sakshi Dubey*	CMRAOP77	84

Poster Presentations

S. No.	Title & Authors	Paper ID	Pages
85	Column Chromatographic fractionation, characterization and in vitro antioxidant activity of <i>Ocimum tenuiflorum</i> stem methanolic extract. Rupal Purena, Shruti Majumdar, Dhanajay Tandon and Khusbu Verma	CMRAPP01	85
86	Study of Aeromycoflora biodiversity from indoor library environment of ShriRawatpura Sarkar University, Raipur (C.G.) Khushbu Verma, Rupal Purena, Dhananjay Tandon, Madhavi Pandey, Misha Martin and Ashis Kumar Sarkar	CMRAPP02	86
87	Study of Vernal Keratoconjunctivitis (Vkc) Under The AgeGroup 1-20 Years At Mgm Eye Institute Dipali Sahu	CMRAPP03	87
88	Assessment of Ethnomedicinal Plant Diversity in Five Blocks of Mahasamund District, Chhattisgarh Mrs. Supriya Bhoi and Dr. Surendra Gautam	CMRAPP04	88
89	Phytochemicals as alternative solution for controlling phytopathogens: Advantages and Challenges Shraddha Verma, Likheswar Manhare, Nitesh Singh and Khushbu Verma	CMRAPP05	89
90	Diversity Of Spiders In Boramdev Wild-Life Sanctuary In Chhattisgarh Simmi Thakur and Ayantika Pal	CMRAPP06	90
91	Effect of NaCl-Induced Salinity on Germination of Some Millets Preeti Painkra and Surendra Kumar Gautam*	CMRAPP07	91
92	Isolation of Green Hydrogen: Innovative Techniques and Its Role in Sustainable Energy Production Amit Kumar Singh	CMRAPP08	92
93	Longitudinal Study of Hemoglobin Levels in Pregnant Women of ChhuraBlock, Gariyaband, Chhattisgarh Ms. Sapna Yadav and Dr. Surendra Kumar Gautam *	CMRAPP09	93
94	A Review of Different Methods for Growing <i>Arabidopsis thaliana</i> Plant: A model Organism for Valuable Plant Research Monika Shrivastava, Shalu Das, Khushbu Verma, Dhananjay Tandon, Rupal Purena, Madhavi Pandey, Misha Martin and Ashis Kumar Sarkar	CMRAPP10	94

95	Green Synthesis and UV-Visible Characterization of Silver Nanoparticles from <i>Citrus macrocarpa</i> leaf Secondary Metabolites and its antibacterial activity against Rice crop pathogen <i>Xanthomonas oryzae</i> Gulshan Kashyap, Dr. Rupal Purena, Dr. Khushbu Verma, Dr. Dhanjay Tandon, Dr. Madhvi Pandey, Mrs. Misha Martin, Dr. A.K. Sarkar	CMRAPP11	95
96	Incidence and Succession of Insect Pests in Lady’s Finger (<i>Abelmoschus esculentus</i>) at Nawagaon, Mahasamund District, Chhattisgarh Naurin Mondal and Surendra Kumar Gautam	CMRAPP12	96
97	Assessing the Toxicological Interactions between Chlorpyrifos and Multivitamin Supplementation on Avian Egg Embryos Anuja Kujur. And Namita*	CMRAPP13	97
98	Study of aquatic insect diversity in fish farm pond in Mahasamund Leelima Bhoi. Ayantika Pal	CMRAPP14	98
99	Sustainable carbon neutral biofuel production from agro waste. Sakshi Pawar, Ashish Kumar Dubey, Somya Sahu, Rakhi Bajpai, Jai Godheja	CMRAPP15	99
100	A Review on Ganoderma lucidum (GL) Polysaccharide. Kritika Kerketta, Khushbu Verma, Dhananjay Tandon, Rupal Purena, Madhavi Pandey, Misha Martin and Ashis Kumar Sarkar	CMRAPP16	100
101	Investigating the Toxicological Effects of Chlorpyrifos and Protective Role of Multivitamins on Chick Embryos Anchal Meher and Namita *	CMRAPP17	101
102	Stem Cell Therapy: A New Era in Disease Treatment Suwarna Wupadrashta and Monalisa Chattaraj	CMRAPP18	102
103	Black Mold: A Silent Killer Ishneet Kaur Kohli	CMRAPP19	103
104	Title: Study of earthworm diversity in Chhattisgarh Shraboni Paul and Ayantika Pal	CMRAPP20	104
105	Understanding sickle cell disease causes Symptom treatment and management Aaryan pradhan and Om prakash patel	CMRAPP21	105
106	Eco-Friendly Architecture Diksha Jain	CMRAPP22	106
107	Preliminary Study on the Distribution of Grass Species in Shri Rawatpura Sarkar University Campus Karan Kumar Sahu and Surendra Kumar Gautam	CMRAPP23	107

International Conference on “Climate Resilience through a Multidisciplinary Approach: The Role of Biological and Physical Sciences in Sustainable Development” March 6 – 7, 2025 at Shri Rawatpura Sarkar University, Raipur -492015, Chhattisgarh, India

108	Growing food in high-rise farms using Hydroponics and Aeroponics. Rafia Anjum	CMRAPP23	108
109	Luminescence studies of Pr 3+ doped Ba 3 Bi 2 (PO 4) 4 phosphor Suman Agrawal* and Piyush Jha	CMRAPP24	109
110	Luminescence studies of Pr 3+ doped Ba 3 Bi 2 (PO 4) 4 phosphor Suman Agrawal and Piyush Jha	CMRAPP25	110
111	Environmental Assessment and Management through Multispectral Remote Sensing Techniques Muskan Khan	CMRAPP26	111
112	Green Synthesis and UV-Visible Characterization of Silver Nanoparticles from Citrus macrocarpa fruit Secondary Metabolites and its antibacterial activity against Xanthomonas oryzae Rahul Kumar Rathore, Rupal Purena, Khushbu Verma, Dhanjay Tadon, Madhvi Pandey, Misha Martin and A.K. Sarkar	CMRAPP27	112
113	Green Synthesis and Characterization of Zn Nanoparticles from <i>Citrus macrocarpa</i> fruit Secondary Metabolites and study of its antibacterial activity. Kumkum Izardar, Khushbu Verma , Rupal Purena , Dhanjay Tadon, Madhvi Pandey, Misha Martin and A.K. Sarkar	CMRAPP28	113
114	Green Synthesis and Characterization of Zn Nanoparticles from <i>Citrus macrocarpa</i> leaf Secondary Metabolites and study of its antibacterial activity against <i>Xanthomonas oryzae</i> and <i>E.coli</i> .” Anjali Sahoo, Rupal Purena, Khushbu Verma, Dhanjay Tadon. Madhvi Pandey, Misha Martin and A.K. Sarkar	CMRAPP29	114
115	CRISPR Technology Atharv Vaishnav, Tanu Gupta, Anne Bardhan and Bhumika Yadu	CMRAPP30	115
116	Study of Structure and Functions of Organic Light Emitting Diodes Shivranjani Bairwa and Rishi Jaiswal	CMRAPP31	116
117	Screening of PHA-Producing Fungal Strains Using Sudan Black B Staining Devashish Reddy , Madhavi Pandey, Dhanjay Tadon, Rupal Purena, Khushbu Verma, Misha Martin and A.K. Sarkar	CMRAPP32	117
118	Isolation and Characterization of Fungal Probiotics from Dairy Products. Mayank Hanotwal, Madhavi Pandey, Dhanjay Tadon, Rupal Purena, Khushbu Verma ,Misha Martin and A.K. Sarkar	CMRAPP33	118
119	Diversity and Distribution of Freshwater Turtle and Tortoise around Sarona Pond along Raipur District, Chhattisgarh Robina Ekka and Namita	CMRAPP34	119
120	In Silico Molecular Docking and Antibacterial Studies of Hydroxamic Acids Akankshya A. Mahakur , R. Sao , M. Bagel , A. Kumar , D. Kumar and R.P.Rajwade	CMRAPP35	120

121	Determination of hydrophobicity (logK _{ow}) of hydroxamic acids by RP-HPLC and Partial Least-Square (PLS) modelling. Govardhan P. Shrivastava, Lakshmi Narayanan, R.P. Rajwade and R. K. Banjare	CMRAPP36	121
122	Monitoring and Evaluation of the Water Quality Parameters of Rural Area of Korba District, Chhattisgarh Gulshan K. Uike, A. K. Kelan, Dushyant Bais, J. Diwan and R.P.Rajwade	CMRAPP37	122
123	Quantitative Structure-Property Relationship for Lipophilicity of N-Arylhydroxamic acids Leena Jaiswal, Nidhi Saju and R.P.Rajwade	CMRAPP38	123
124	Assessment of The Physicochemical Parameter of Ground Water Samples of Kartala Block, Korba (C.G.) H. Katkwar, Lokesh K Yadav, S. Paikra, F. Ghritlahre, J. Diwan and R.P.Rajwade RNA Interference (RNAi): A Sustainable approach for plant improvement	CMRAPP39	124
125	Anusha Yadav, Rupal Purena, Khushbu Verma, Dhananjay Tandon, Madhavi Pandey, Misha Martin and Ashis Kumar Sarkar Determination of hydrophobicity (logK _{ow}) of hydroxamic acids by RP-HPLC and Partial Least-Square (PLS) modelling.	CMRAPP40	125
126	Development Of Air Quality Monitoring Test Kit Tushar Prajapati and Dhananjay Tandon	CMRAPP41	126
127	Latest Enzymes Discovered for Cancer Treatment Stuti Hari and Disha Sahu	CMRAPP42	127
128	Production of antibiotics from novel microbial source Pooja sahu	CMRAPP43	128
129	Plant Callus: A Cornerstone for Regeneration and Biotechnology Monika Tiwari, Jitesh Sahu, Nikhil Verma, Madhavi Pandey, Dhananjay Tandon, Rupal Purena, Khushbu Verma, Misha Martin and A.K. Sarkar	CMRAPP44	129
130	Comparative Analysis of Salt Stress Tolerance in Different Rice (<i>Oryza sativa</i>) Varieties During Germination Keshav Kodopi and Surendra Kumar Gautam	CMRAPP45	130
130	Review on Rare Earth doped Phosphate Phosphor Biswajeet Mukherjee and Piyush Jha	CMRAPP46	130
131	Green Synthesis of Nanoparticles Using Medicinal Plants: A Sustainable Approach for potential future Likheswar Manhare, Shraddha Verma, Nitesh Singh and Khushbu Verma	CMRAPP47	131
132	A Comparative Analysis of Phyllotactic Patterns and Leaf Morphology in Shri Rawatpura Sarkar University Campus Vegetation Vivek Patel and Surendra Kumar Gautam	CMRAPP48	132

133	Advances in Understanding and Treating Leukemia: A Comprehensive Review Muskan dewangan and Aaryan pradhan	CMRAPP49	133
134	Keratinophilic Fungi Pathogenicity to the Birds at the Location of Naya Raipur Lumesh Sahu and Loknath Deshmukh	CMRAPP50	134
135	Dietary Fiber Recommendations For Diabetic Patients And Daily calorie Intake Ashwin Meshram, Pratibha Chokhi and Chittranjan Yadav	CMRAPP51	135
136	Isolation of Entophytic fungi from Plant Girish Hansraj, Dhananjay Tandon, Misha Martin, Rupal Purena, Madhavi Pandey, Khushbu Verma and Ashis Kumar Sarkar	CMRAPP52	136
137	Advances in Understanding and Treating Leukemia: A Comprehensive Review Cheshta Kurre, Dhananjay Tandon, Rupal Purena, Madhavi Pandey, Khushbu Verma, Ashis Kumar Sarkar, Misha Martin, Chaitanya Nigam and Rupam Nigam	CMRAPP53	137
138	Use of Natural Coagulants from Fruit Peels for Wastewater Treatment in the industrial area of Mahasamund District, Chhattisgarh (India) Anjali Patel* and Sonal Choubey	CMRAPP53	138

“शिक्षा का मुख्य कार्य मनुष्य के भीतर नये नये विचार उत्पन्न करना है ।
ईश्वर ने मानव मस्तिष्क में अपार ऊर्जा एवं योग्यता दी है ।
शिक्षा इन शक्तियों को प्रयोग में लाने में मदद करती है ।”



www.sruipur.ac.in

Campus Address

NH-30, Post Mana, New Dhamtari Road, Raipur (C.G.), India

Contact us : 7222910411

🌐 www.sruipur.ac.in [f](https://www.facebook.com/sruipurindia) [i](https://www.instagram.com/sruipurindia) [in](https://www.linkedin.com/company/sruipurindia) [shrirawatpurasarkar](https://www.youtube.com/channel/UCshrirawatpurasarkar)



Aditi Publication

Aditi Publication

Opp. New Panchjanya Vidya Mandir, Near Tiranga Chowk,
Kushalpur, Dist.- Raipur-492001, Chhattisgarh
shodhsamagam1@gmail.com, +91 94252 10308



₹ 799