REPORT

INTERNATIONAL CONFERENCE ON

ADVANCES IN SYSTEMS BIOLOGY

6th - 8th March, 2025

Patron
Prof. Neelima Gupta
Chancellor, DHSGU, Sagar

Convener
Prof. Shweta Yadav
Prof. & Head, Dept. of Zoology

Organizing Secretary
Dr. Chandrama P. Upadhyaya
Department of Biotechnology

Co-organizing Secretary
Dr. Rajkumar Koiri
Department of Zoology

Organized by

Department of Zoology
School of Biological Sciences
Dr. Harisingh Gour Vishwavidyalaya
(A Central University)
Sagar-470 003 (M.P.) India

REPORT : ICASB 2025

The three-day International Conference on Advances in System Biology organized by Department of Zoology, Dr. Harisingh Gour Vishwavidyalaya Sagar, Madhya Pradesh, India commenced on March 6, 2025, at Abhimanch Sabhagar.The inaugural ceremony commenced in the esteemed presence of **Hon'ble Vice-Chancellor Prof. Neelima Gupta**, whose inspiring words set the tone for the conference. The proceedings began with the traditional lighting of the lamp, symbolizing knowledge and wisdom, followed by the garlanding of Maa Saraswati, the goddess of learning, as a mark of reverence. To invoke blessings for a successful conference, M.Sc. students melodiously chanted the Saraswati Vandana, creating an atmosphere of devotion and inspiration. The presence and encouragement of our Hon'ble Vice-Chancellor added great significance to the occasion, reinforcing the institution's commitment to academic excellence and knowledge dissemination.

Warmly Welcoming Our Esteemed Guests: A Traditional Tilak Ceremony to Begin the Conference!

Warm Welcome: Guests greeted with traditional tilak at the conference, marking the beginning of an enriching journey together.

Heartfelt Welcome: Honoring our guests with a traditional tilak ceremony as they arrive for the conference

Illuminating the Path of Knowledge: Dignitaries light the ceremonial lamp and garland Maa Saraswati to mark the auspicious beginning of the International Conference.

Melodic Devotion: M.Sc. students beautifully sing Saraswati Vandana, invoking the blessings of the Goddess of Wisdom at the International Conference

Extending a warm floral welcome to our esteemed dignitaries at the International Conference! A gesture of respect, unity, and global collaboration The Convener of the Conference and Head of the Department of Zoology, Professor Shweta Yadav

The **Convener of the Conference and Head of the Department of Zoology, Professor Shweta Yadav**, extended a warm and heartfelt welcome to the distinguished guests, eminent scientists, and participants who gathered to contribute to the academic discussions on **Advancements in Systems Biology**. She expressed gratitude for their presence and emphasized the significance of the event in fostering collaboration, knowledge exchange, and innovation in biological sciences.

The event was graced by the esteemed presence of **Padma Shri awardee Professor A. P. Dash**, a highly regarded academician and former **Vice Chancellor of the Central University of Tamil Nadu and the Public Health University, Bhubaneswar**. Prof. Dash, who also serves as a **consultant to the World Health Organization (WHO)**, has made remarkable contributions to the field of **public health, particularly in vector-borne disease research and control strategies**.

Several prominent **Zoologists and academicians** attended the event, lending their expertise and insights to the discussions. Among them were:

- **Dr. Gopal Krishna**, former **Director and Vice Chancellor of the Central Institute of Fisheries Education, Mumbai**, renowned for his pioneering work in **the genetic improvement of edible fish species**.
- **Prof. D.K. Sharma**, former **Vice Chancellor of Dr. B.R. Ambedkar University of Social Science, Dr. Ambedkar Nagar (Mhow), Indore**, and the younger brother of **Nobel Peace Prize Laureate Kailash Satyarthi**.
- **Prof. S.C. Joshi**, former **Vice Chancellor of Lord University, Alwar**, known for his contributions to **environmental and biological sciences**.
- **Prof. Mohd. Arif**, **Vice Chancellor of Mohammad Ali Jauhar University, Rampur**, and a **former scientist at DRDO (Defence Research and Development Organisation)**.
- **Prof. B.D. Joshi**, **President of the Indian Academy of Environmental Sciences**, a highly regarded biologist and mentor, known for his contributions to **environmental research and conservation**.

A special welcome was extended to **Professor Neelima Gupta**, an eminent zoologist celebrated for her discovery of 50 parasites.**Prof. Gupta**, a recipient of the **Janki Ammal Award and Saraswati Samman**, has held several prestigious leadership positions, including **Vice Chancellor of Chatrapati Shahu Ji Maharaj University, Kanpur; Bhagalpur University; and Mudrika University, Bihar**. She currently serves as the **Vice Chancellor of Dr. Harisingh Gour Vishwavidyalaya**, where she continues to contribute significantly to research, education, and institutional development. Prof. Yadav expressed her appreciation for Prof. Gupta's visionary leadership in enhancing the university's research ecosystem.

Prof. Yadav also welcomed **Prof. Versha Sharma, Dean of the School of Biological Sciences**, along with off-the-dias dignitaries, including:**Prof. Naveen Kango, Director of Academic Affairs**, **Prof. Ajeet Jaiswal, Director of Faculty Affairs**. The conference also witnessed notable international participation, with the presence of**Dr. Giribabu Nelli** from **Malaysia**, **Prof. K.K. Dey** from the **USA**, **Dr. P.K. Korla** from **North Carolina State University, USA.**

Additionally, esteemed academicians **Prof. R.N. Yadav, former Vice Chancellor of Purnia University, Bihar**, and **Prof. Ishan Patro, former Vice Chancellor of Ravenshaw University, Cuttack**, were acknowledged for their valuable contributions to academia and biological sciences. Professor Yadav expressed gratitude for the invaluable guidance and contributions of **Professor D.K. Gupta,** Mahatma Jyotiba Phule Rohilkhand University, Bareilly, Uttar Pradesh.

Prof. Yadav took the opportunity to highlight recent institutional initiatives aimed at strengthening the research and academic ecosystem of the university. Among these was the inauguration of **the Gour Museum**, a significant addition showcasing the rich biodiversity of Madhya Pradesh. The museum aims to serve as an educational and research hub for students, scholars, and environmentalists.Another notable initiative included the comprehensive photo gallery documenting the remarkable journey of **Sir Dr. HariSingh Gour**, celebrating his contributions to education and the university's legacy.Prof. Yadav also emphasized collaborations with the **National Museum of Natural History** and ongoing efforts to enhance research infrastructure under the visionary leadership of the Vice Chancellor.

Convener Prof Shweta Yadav delivering the welcome address, setting the stage for the conference by introducing the audience to its theme, objectives, and key highlights

Underscoring the rich academic tradition of the department, Prof. Yadav noted that three generations of faculty members have played a pivotal role in organizing and supporting such academic conferences. She expressed sincere gratitude for the continuous guidance and mentorship provided by senior faculty members, including-**Prof. D.P. Gupta**, **Prof. U.S. Gupta**, **Prof. Subodh Kumar Jain.**

Acknowledgment was also extended to financial supporters and funding agencies, whose generous contributions have facilitated the smooth execution of the event. These include- **DoRD (Department of Research and Development)**, **Internal Quality Assurance Cell (IQAC)**, **Anusandhan National Research Foundation**, **Jai Appliances and Chemicals, Sagar**, **Kappasiya**

Company, **Saraswati Samman awardee Prof. J.P. Shukla**, a distinguished academic and author of significant textbooks in biological sciences.

Additionally, the contributions of dedicated faculty members and organizing committeemembers were recognized. Special mention was made of-**Dr. Malabika Sikdar**, **Dr. Payal Mahobiya**, **Dr. Deepali Jat**, **Dr. Shaswat Singh**, **Dr. Smita Shukla**, **Dr. Priyoneel Basu**, **Dr. Sandeep Kumar**, **Dr. Kashmeera N.A.**, **Dr. Somenath Ghosh**, **Dr. Arjun Aditya (Dept. of Botany).**The **Organizing Secretary, Dr. C.P. Upadhyaya**, and **Co-organizing Secretary, Dr. Rajkumar Koiri**, were also commended for their tireless efforts and dedication in ensuring the success of the conference.

Prof. Yadav concluded her address with an invitation for all attendees to engage in meaningful discussions, collaborations, and knowledge-sharing opportunities throughout the three-day event.The conference witnessed a strong academic participation, bringing together **230 participants from 54 universities and institutions,** including **56 outstation delegates**. The diverse and engaging program featured:**9 keynote lectures**, **19 special lectures**, **42Oral and 69 poster presentations**.

A special session on '**Women in Science'** was organized in observance of **International Women's Day** on **8th March**, focusing on the significant contributions of women scientists in shaping India's scientific progress. The session aimed to encourage young researchers and promote gender inclusivity in STEM (Science, Technology, Engineering, and Mathematics) disciplines.The convener concluded her address on a high note, setting the stage for thought-provoking discussions and collaborative research endeavours over the next three days.

The audience attentively attended the conference, actively engaged in the proceedings and setting the tone for the conference

Following the inaugural remarks, **Prof. Versha Sharma, Dean of the School of Biological Sciences**, elaborated on how the term "advance" signifies the rapid evolution of systems biology, which has now reached an advanced stage, integrated interdisciplinary fields and contributed significantly to various domains, including biotechnology, climate change, and environmental sustainability. Furthermore, she highlighted the role of systems biology in biotechnology, particularly in areas such as genomic research, personalized medicine, and synthetic biology, which are revolutionizing healthcare and disease management.Concluding her address, Professor Sharma stressed the importance of continued advancements in systems biology and encouraged researchers to explore its vast potential in addressing contemporary global challenges.

Prof. Versha Sharma, Dean of the SoBS, addressing the gathering

During the conference, Professor D. K. Sharma addressed the gathering, delivering an insightful discourse on the theme of the event—"Advances in Systems Biology." He emphasized the growing significance of systems biology in the present era, particularly with the integration of artificial intelligence (AI) and computational biology. He highlighted that systems biology has been a fundamental aspect of knowledge and understanding since ancient times, referencing its roots in the Indian Knowledge System, even dating back to the Mahabharata.Prof. Sharma elaborated on the interconnection between genotype and phenotype, asserting that their study and analysis could play a crucial role in bhavishyawani (prediction of future events). He further drew parallels between modern scientific advancements and the wisdom embedded in the Vedic period, underscoring how ancient Indian texts contain profound insights into biological systems and predictive sciences.Concluding his address, Professor Sharma expressed his confidence that the recommendations formulated during the conference would prove valuable for key governmental bodies, including the Department of Science and Technology (DST), and the Ministry of Higher Education. He emphasized that these recommendations would contribute to the advancement of research and policy-making in the field of systems biology, aligning with the country's broader vision for scientific progress.

Prof. D. K. Sharma delivering his insightful address at the Conference on Advances in System Biology

Following the inaugural remarks, **Prof. Mohd. Arif, Vice Chancellor of Mohammad Ali Jauhar University, Rampur, and former scientist at DRDO**, took the stage to deliver his insightful address. He began by paying a profound tribute to **Hon'ble Vice Chancellor, Prof. Neelima Gupta**, with an inspiring quote:

"है वही सूरमा इस जग में जो राह बनता है, कोई पदचिन्हो पे चलता है, कोई राह बनता है"

("**A true warrior is one who carves a new path, while some merely follow in the footsteps of others, there are those who create their own way**.")

He lauded Prof. Neelima Gupta as a visionary leader and a pathbreaker in the academic world. He emphasized that Prof. Gupta has consistently championed paradigm shifts in academia and institutional governance, transforming multiple universities from critical and challenged states to thriving centres of excellence. Through her dynamic leadership, she has revitalized research ecosystems, strengthened academic frameworks, and established innovative educational policies, leaving an indelible mark on every institution she has led.Prof. Arif then directed his message to research supervisors, scholars, and young scientists, urging them to adopt the mindset of pioneers rather than followers. He encouraged them to think beyond conventional approaches and push the boundaries of knowledge. Reinforcing this thought, he shared another thought-provoking quote: *"**Learning is from Home to Tomb**."*With this, he emphasized the lifelong nature of education and research, stressing that true learning begins at home and continues until one's last breath. He encouraged participants to make the most of this prestigious conference, treating it as an opportunity for exponential intellectual growth, exchange of knowledge, and collaborative innovation.

Prof. Mohd. Arif addressing the gathering, inspiring researchers and supervisors to be pathbreakers, emphasizing lifelong learning, and applauding the visionary leadership of Hon'ble Vice Chancellor Prof. Neelima Gupta.

Prof. Arif's address resonated deeply with the attendees, leaving them with a renewed sense of motivation to embrace a mindset of curiosity, resilience, and scholarly excellence.

In his thought-provoking address, **Prof. Suresh C. Joshi, former Vice Chancellor of Lord University, Alwar**, highlighted a crucial issue affecting the current generation of students—the misconception of equating information with knowledge and convenience with happiness. He emphasized that in today's fast-paced digital era, students often mistake readily available information as deep understanding and associate momentary comfort with long-term fulfilment.To illustrate his point, Prof. Joshi shared a compelling experiment conducted by a teacher in a classroom. The teacher distributed toffees to all students and instructed them not to eat the toffee until the class was over. At the end of the class, the teacher asked the students if they had resisted the temptation. It was found that only seven students out of the entire class had exercised self-control and refrained from eating the toffee.

Prof. S.C. Joshi delivering his address, highlighting the importance of patience and discipline for success, and sharing his thought-provoking "Marshmallow Theory" with the audience

Years later, the teacher tracked the progress of his former students and discovered a fascinating trend—those seven students had reached remarkable heights in their careers, holding prestigious positions such as CEOs, Directors, and top executives, while the rest of the students, who had succumbed to immediate gratification, struggled with financial instability and professional hardships. The phenomenon is known as**"Marshmallow Theory"**, which underscores the fundamental principle that patience and delayed gratification are key determinants of success. He concluded his address by emphasizing that self-discipline, resilience, and the ability to resist short-term temptations play a critical role in achieving long-term goals.His speech served as a powerful reminder to students and researchers to cultivate patience, perseverance, and a strong work ethic in their academic and professional journeys. The audience was deeply inspired by this real-world example, reinforcing the importance of self-control and long-term vision in personal and professional success.

Prof.Gopal Krishna, former **Director and Vice Chancellor of the Central Institute of Fisheries Education, Mumbai**, delivered an insightful address emphasizing the crucial role of mentorship in achieving success. He began by stating that behind every significant achievement, there is a mentor who provides guidance, wisdom, and inspiration.Reflecting on his own journey, Prof. Krishna expressed his deep gratitude for the opportunity to work under the **esteemed mentorship of Hon'ble Vice Chancellor, Prof. Neelima Gupta**. He acknowledged her visionary leadership and transformative approach in academia and research, which have greatly influenced his professional growth. He highlighted how a mentor's role extends beyond providing knowledge—it involves shaping perspectives, fostering discipline, and instilling a commitment to excellence.Turning his attention to the young researchers and scholars in attendance, Prof. Krishna urged them to prioritize the true objective of their research. He stressed that research should not merely be conducted for academic recognition but must be aligned with societal needs and focused on solving real-world problems. He posed two critical questions to the researchers:

1. **Is your research contributing to the welfare of society?**
2. **Does the outcome of your research reach and benefit the common people?**

He emphasized that scientific advancements must not remain confined to laboratories and academic journals; instead, they should be translated into practical applications that improve lives. He encouraged researchers to engage in community-driven research, collaborate with industries and policymakers, and ensure that their work has a tangible impact on society.Prof. Krishna's address served as a compelling call to action for researchers to be more socially responsible and outcome-driven. His speech left the audience with a renewed sense of purpose, reminding them that true success in research is measured not only by discoveries and publications but by how effectively those discoveries enhance human life and societal progress.

Prof. **B.D. Joshi, President of the Indian Academy of Environmental Sciences and a distinguished biologist**, addressed the gathering with a profound and philosophical perspective, urging attendees to embrace knowledge in a holistic manner. He emphasized that scientific discussions should not be limited to isolated fragments but must be approached with a comprehensive and integrative mindset.He began his address by highlighting the importance of the **"Panchtatva" (the five fundamental elements—Earth, Water, Fire, Air, and Space)** in the Indian knowledge system. Drawing from ancient wisdom, he explained how these five elements form the foundation of life and the interconnectedness of all living beings with nature. He urged researchers and scholars to consider these fundamental principles while exploring advancements in biological sciences, environmental studies, and system biology.Prof. Joshi further emphasized the need for openness in acquiring knowledge, quoting the Vedic principle:

"Let knowledge come to us from all directions."With this, he stressed that true progress in research and innovation can only be achieved when scholars remain receptive to diverse perspectives, interdisciplinary approaches, and global collaborations. He encouraged the participants to engage in meaningful discussions, exchange ideas beyond their specific domains, and integrate ancient wisdom with modern scientific advancements.His thought-provoking speech set the tone for a deep and meaningful discourse throughout the conference, reinforcing the idea that scientific exploration must be holistic, inclusive, and beneficial to humanity as a whole.

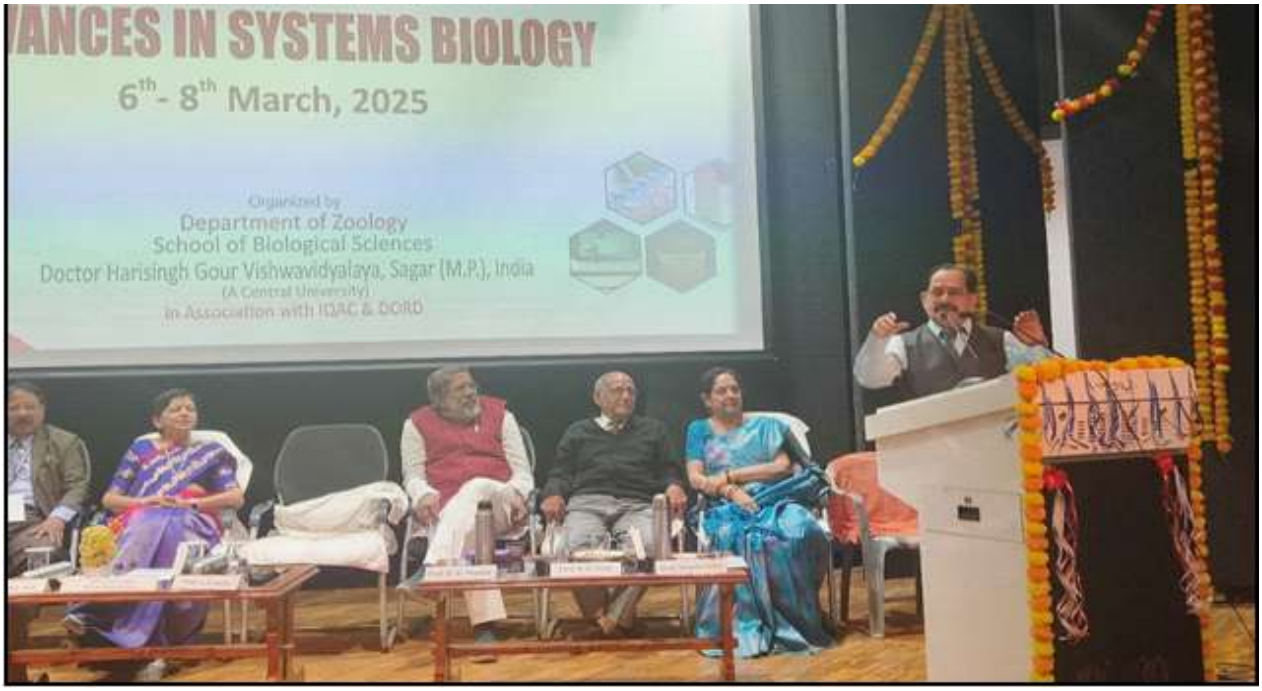
Prof. B.D. Joshi addressing the gathering, emphasizing a holistic approach to knowledge, referencing the concept of Panchtatva, and encouraging the pursuit of wisdom from all directions

Dr. **Rajkumar Koiri**, **Co-Organizing Secretary of the conference**, had the esteemed privilege of introducing the Chief Guest**Prof.A.P. Dash**, **Padma Shri awardee** to the gathering. In his address, Dr. Koiri highlighted the remarkable contributions and distinguished career of the Chief Guest, acknowledging their immense expertise, leadership, and influence in their respective field.Dr. Koiri further spoke about the Chief Guest's invaluable role in fostering interdisciplinary collaborations and promoting scientific advancements. He also highlighted how the Prof. A.P. Dash vision and contributions have inspired countless researchers, educators, and policymakers.With great enthusiasm and reverence, Dr. Koiri welcomed the Prof. A.P. Dashto the podium, inviting him to share his insights and wisdom with the distinguished audience. His introduction set the stage for an engaging and thought-provoking address, marking a significant moment in the conference proceedings.

Dr. Rajkumar Koiri introducing the Chief Guest with great honour, highlighting their remarkable contributions and setting the stage for an insightful address

Prof. **A.P. Dash**, **Padma Shri awardee**, former **Vice Chancellor of the Central University of Tamil Nadu and the Public Health University, Bhubaneswar**, and a renowned consultant to the **World Health Organization**, delivered a compelling address focusing on the delicate balance between development and environmental sustainability.He began his speech by providing a thought-provoking statistic about Earth's biological composition. He stated that while humans tend to view themselves as the most dominant species, in reality, Prof. A.P. Dash, Padma Shri awardee, former Vice Chancellor of the Central University of Tamil Nadu and the Public Health University, Bhubaneswar, and a renowned consultant to the World Health Organization, delivered a compelling address focusing on the delicate balance between development and environmental sustainability.He began his speech by providing a thought-provoking statistic about Earth's biological composition. He stated that while humans tend to view themselves as the most dominant species, in reality, plants overwhelmingly dominate the planet's biomass, whereas humans make up only 0.01% of the Earth's total living organisms. Despite their minuscule proportion, humans have exerted an enormous and

often destructive influence on the environment. Prof. Dash pointed out that anthropogenic activities, including deforestation, industrial pollution, and excessive resource exploitation, have led to severe ecological imbalances, threatening biodiversity and the planet's future.While acknowledging that India is progressing rapidly on the global stage, he stressed the need for responsible and sustainable development. He urged scientists, researchers, and policymakers to strike a balance between economic growth and ecological preservation, advocating for a model of development that ensures production and progress without leading to destruction and pollution.In this context, Prof. Dash introduced the United Nations' Sustainable Development Goals (SDGs)—a set of 17 global objectives designed to promote prosperity while protecting the planet. He emphasized that achieving these goals requires interdisciplinary efforts, technological innovation, and policy-driven solutions. He encouraged young researchers to align their studies with sustainability-focused initiatives, ensuring that their scientific contributions help address pressing global challenges such as climate change, biodiversity loss, and environmental degradation.Shifting the focus to systems biology, Prof. Dash elaborated on its multidisciplinary nature and transformative potential in scientific research. He referenced a statement from a leading scientist who described systems biology as a field primarily shaped by four interconnected domains: Theoretical Physics, Nano Chemistry, Systems Biology, Nano Biology.He emphasized that future advancements in systems biology will require cross-disciplinary collaboration, urging researchers to embrace new methodologies, leverage computational tools, and integrate emerging technologies such as artificial intelligence and nanotechnology.Prof. Dash concluded his address by reiterating the importance of responsible scientific progress. He called on researchers to be mindful of their impact on the environment while embracing innovation. His insightful speech resonated with the audience, leaving them with a strong message about balancing development, sustainability, and scientific excellence.



Prof. A.P. Dash delivering his address, emphasizing sustainable development, the impact of human activities on the environment, and the interdisciplinary nature of Systems Biology

As the program progressed, the **dignitaries on stage participated in the ceremonial unveiling of the conference souvenir**, marking a significant moment in the event. The souvenir, a compilation of **research abstracts, keynote addresses, and conference proceedings**, symbolized the collective efforts of scholars and organizers in advancing scientific discourse.

Following the unveiling, Prof. Neelima Gupta, Hon'ble Vice Chancellor of the university and Patron of the conference, addressed the gathering with deep appreciation and joy. She expressed her immense pride and honor as a mentor, highlighting the unique privilege of sharing the dais with her former scholars, who have now reached prestigious milestones in their respective careers. She noted that seeing her students evolve into accomplished academicians and researchers was a testament to the lasting impact of quality mentorship and academic nurturing.Prof. Gupta further expressed her delight at the presence of several esteemed senior professors and multiple Vice Chancellors, both active and retired, at the conference. She emphasized that their continued participation reflected the strong bond that the Department of Zoology fosters with its faculty and students, even beyond their tenure. She remarked that it was heartening to see that whenever the department extended an invitation, its alumni and former faculty readily joined, showcasing the department's enduring academic camaraderie.

Dignitaries unveiling the souvenir, marking a significant moment in the conference as they celebrate the collective efforts of scholars and theadvancement of research in System Biology

Discussing the theme of System Biology, Prof. Gupta reflected on the diverse interpretations presented by various distinguished speakers. She acknowledged that System Biology is an expansive field, encompassing numerous sub-disciplines such as fisheries, parasitology, entomology, endocrinology, environmental biology, and more. She emphasized that Zoology, as a branch of science, has existed since the dawn of civilization, particularly in the realm of taxonomy, which remains a foundational and largely unaltered discipline over time.

Prof. Gupta also introduced the concept of CAR (Centre for Advanced Research), highlighting its importance in interdisciplinary, multidisciplinary, and transdisciplinary research. She urged

researchers to move beyond merely identifying problems and instead focus on translating these problems into innovative solutions. She stressed that problem-solving research has a far greater impact and productivity than research that only documents challenges without addressing them.Additionally, Prof. Gupta spoke about India's rich biodiversity, describing it as a "Sweet Amalgamation" of diverse climatic conditions and ecological systems. She emphasized the importance of conserving and studying this vast biodiversity for the sustainable development of scientific knowledge and ecological balance.

Hon'ble Vice Chancellor Prof. Neelima Gupta, delivering her inspiring address, emphasizing interdisciplinary research, the significance of System Biology, and India's rich biodiversity

The eloquence and depth of her address captivated the audience, prompting Dr. Vandana Vinayak, the anchor of the session, to praise Prof. Gupta's speech as a 'masterpiece'. She remarked that if words could be framed, everyone in attendance would want Prof. Gupta's speech to be preserved as an inspirational and scholarly masterpiece.With her insightful and inspiring words, Prof. Gupta set the tone for a conference dedicated to meaningful, solution-driven research, academic collaboration, and scientific innovation.

Dr. Vandana Vinayak anchoring the session with eloquence, praising the insightful address of Hon'ble Vice Chancellor Prof. Neelima Gupta as a 'masterpiece' and engaging the audience with her vibrant presence

Seamless coordination at the International Conference: Kit distribution and registration desk members working together to ensure a smooth experience for all attendees

Awards and Felicitations

- **Lifetime Achievement Award**: Prof. A. P. Dash
- **Khanna Fishery Science Award**: Prof. D.K. Sharma
- **IMMS Felicitation Award**: Prof. Mohd. Arif
- **Turner Endocrinology Award**: Prof. S.C. Joshi
- **Jhingran Award**: Prof. Gopal Krishna
- **Odum Environmental Science Award**: Prof. B.D. Joshi

Honoring Excellence: Dignitaries being felicitated for their remarkable contributions to science and academia, celebrating their dedication and achievements at the conference

Dr. C.P. Upadhyaya, Organizing Secretary, delivered the vote of thanks, acknowledging the support of 230 registered participants and contributors.


Dr. C. P. Upadhyaya delivering the Vote of Thanks, expressing gratitude to the dignitaries, speakers, and participants for their valuable contributions to the success of the conference

Technical Sessions Session I

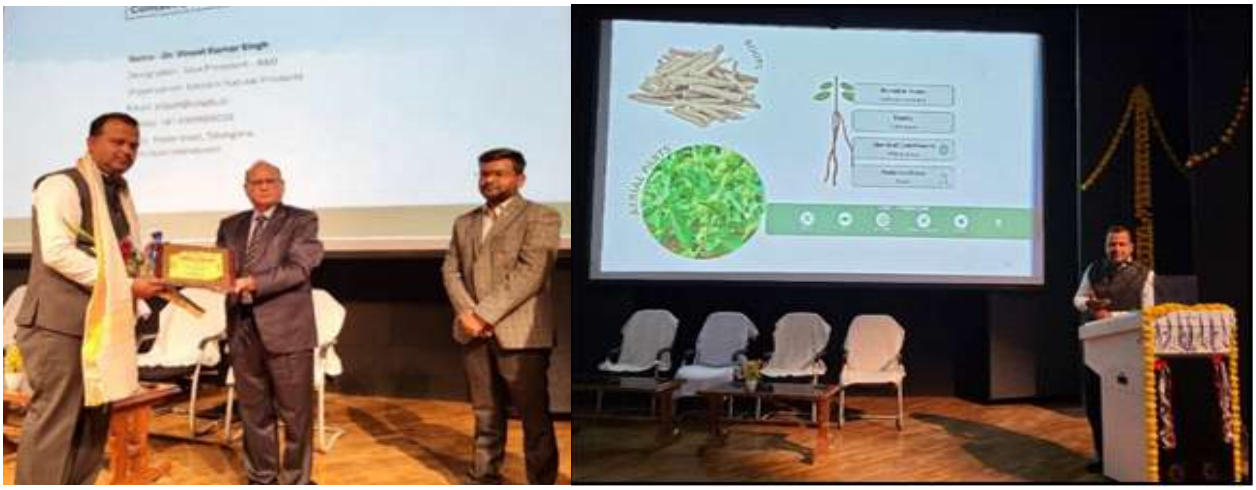
Chairperson : Prof. Subodh K. Jain **Rapporteur** : Dr. Shashwat Singh

- **Plenary Lecture**: Prof. A.P. Dash (CSIR Society) - ***"End NTDs to Achieve SDGs"*** Prof. Dash discussed the SDG framework, the **Polycrisis Era**, and major Neglected Tropical Diseases (NTDs) like malaria, lymphatic filariasis, kala-azar, and dengue. He highlighted the five pillars of SDGs: **People, Prosperity, Peace, Partnership, and Planet**.



Prof. A. P. Dash delivered his insightful Plenary Lecture, while the audience actively engaged with enthusiasm in discussions and knowledge exchange.

- **Special Lecture 1**: **Dr. Vineet Kumar Singh** (Unicorn Natural Products Pvt. Ltd, Hyderabad) - ***"Beyond Label: Retention Strategies for Ashwagandha Root Extract"*** Dr. Singh demonstrated chemical differences between Ashwagandha roots and aerial parts using **HPLC and other analytical techniques**.
- **Keynote Address 1**: Dr. Gopal Krishna (ICAR-CIFE, Mumbai) - *"Fisheries Development and Technology"*Dr. Krishna discussed **fish production in India, biotechnology in fish breeding, chromosome engineering, transgenesis, and genome mapping**. He also outlined the expectations from young professionals in the field.

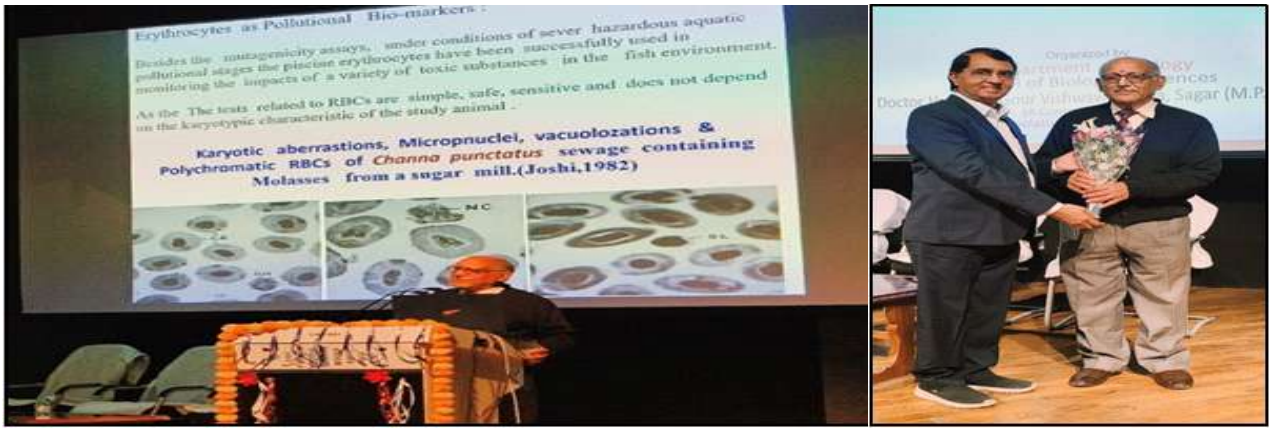


Dr. Vineet Kumar Singh delivering Special Lecture, followed by a felicitation by Prof. Subodh K. Jain

Technical Session Session II

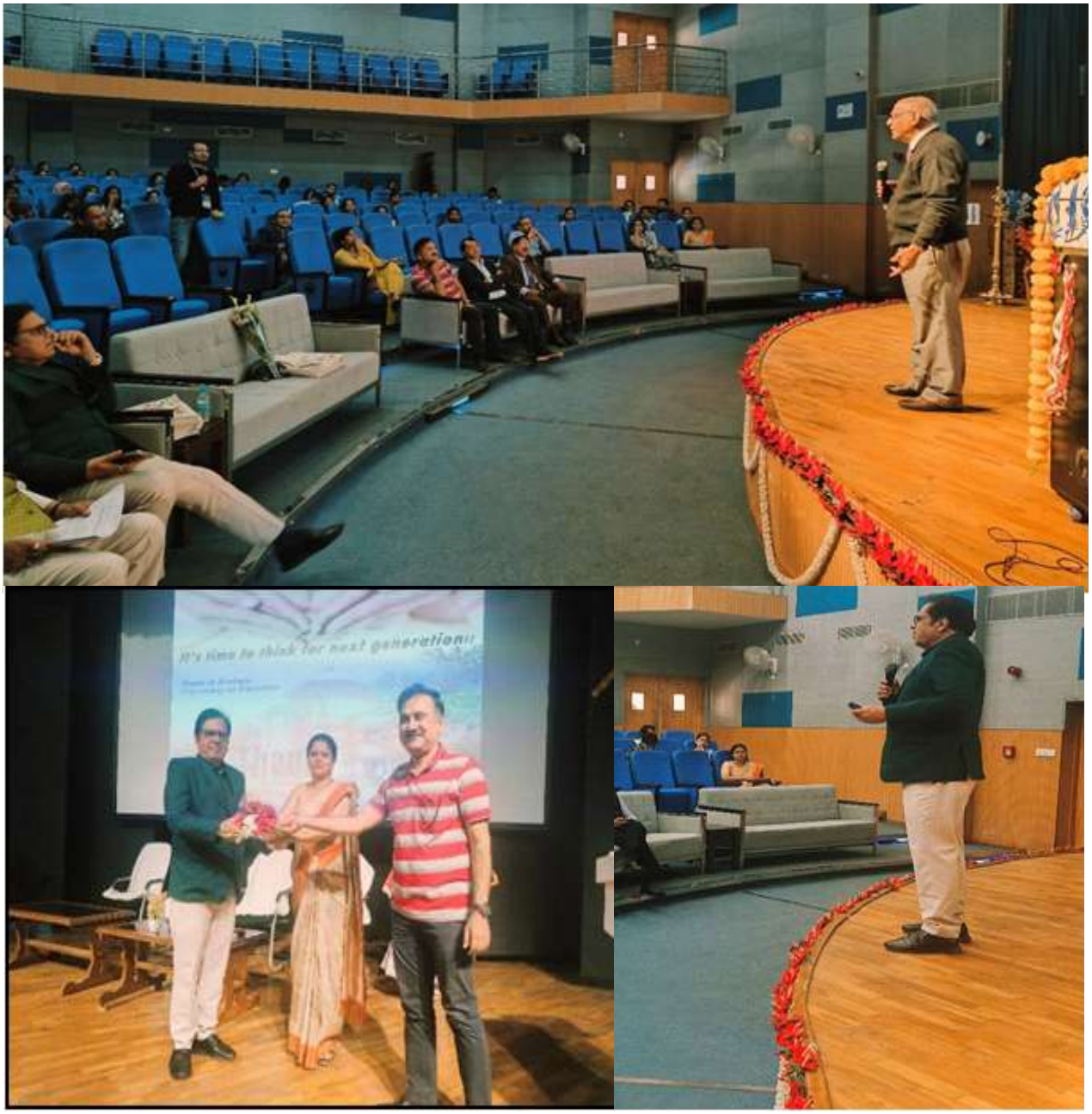
Chairpersons: Dr. Gopal Krishna, Prof. Vishal Trivedi **Rapporteur**: Dr. Sweta Sharma

- **Keynote Address 2**: Prof. B.D. Joshi (Gurukul Kangri, Haridwar) - ***"Cyto-morphological Variations in Blood Corpuscles of Fishes"***Prof. Joshi discussed **primitive and definitive hemopoiesis** and showcased erythrocytic variations across major vertebrate groups.



Prof. B.D. Joshi delivered his Keynote Address, followed by his felicitation by Prof. Gopal Krishna, with participants engaging in a thought-provoking discussion

- **Special Lecture 2**: Prof. Suresh C. Joshi (University of Rajasthan, Jaipur) - ***"Organophosphorous Pesticides: A Threat to Reproductive Health"*** Prof. Joshi elaborated on **infertility factors** and shared **histochemical observations on pesticide-induced fertility issues**



Prof. Suresh C. Joshi delivered his lecture, followed by Prof. Vishal Trivedi's felicitation, with active participation from the audience

- **Special Lecture 3**: Prof. Mohd. Arif (Mohammad Ali Jauhar University, Rampur) - ***"How to Keep Earth Liveable"***

Prof. Mohd. Arif delivering his Special Lecture, followed by a felicitation by Dr. Vishal Trivedi

Session III - Senior Scientist Award Session

Chairperson: Prof. S.C. Joshi **Rapporteur**: Dr. Yogesh Bhargava

- **Keynote Address 3**: Prof. Pratyush Shukla (BHU, Varanasi) - ***"Innovations in Cyanobacterial Biotechnology"***

Prof. Pratyush Shukla delivering his Keynote Address, followed by a felicitation by Prof. Shweta Yadav

- **Special Lecture 4**: Dr. G.C. Pandey (Dr. RML Awadh University, Faizabad) - ***"Toxicants of Health Hazards"***

Dr. G.C. Pandey delivering Special Lecture, followed by a felicitation by Prof. Shweta Yadav

- **Senior Scientist Talk 1**: Dr. Shireesh Shrivastava (ICGEB, New Delhi) - ***"Multi-omics Insights into Yeast Performance for High Gravity Fermentation"***

Dr. Shireesh Shrivastava delivering Senior Scientist Talk

Day 2- 07.03.25

The second day of the conference featured a series of oral presentations held at Acharya Shankar Bhawan and Abhimanch Sabhgar**Session I** was conducted with a total of **10 presenters**, covering diverse research topics across various scientific disciplines. The session was chaired by **Prof. Dinesh Yadav**, while **Dr. Deepanshi Jaiswal** served as the rapporteur, meticulously documenting the proceedings.

Dr. Arun K. Maurya (Multanimal Modi College, Modinagar) presented his research titled *"Rising e-waste-based environmental contamination: Assessment of bioaccumulation and toxicity of Indium on moth bean."* His study highlighted the increasing environmental threats posed by e-waste and the subsequent accumulation of indium in plant systems, assessing its toxicity effects on moth bean growth and metabolism.**Mr. Kishan Kumar Prajapati (DDU, Gorakhpur University)** delivered a presentation on ***"Exploring the Phytopharmaceutical Potential of Underutilized Plant Dioscorea alata L. from the Forests of North-Eastern Terai Region of Uttar Pradesh."*** His research emphasized the medicinal properties of *Dioscorea alata* L., exploring its pharmacological potential and bioactive compounds for pharmaceutical applications.**Mr. Ashwini Waghmare (Department of Microbiology, DHSGV)** presented a paper titled *"Tuneable Effect of Divalent Cations on Tendril Patterning During Swarming Motility of Pseudomonas aeruginosa Through a Chemical Engineering Approach."* His study explored how different cations influence the movement and swarming patterns of *Pseudomonas aeruginosa*, providing insights into microbial motility mechanisms.**Ms. Laxmi Kurmi (Department of Microbiology, DHSGV)** discussed *"Photodynamic Control of Pseudomonas aeruginosa by Nanocomposites Between Iron Nanoparticles and Triphenyl Methane-Based Dyes."* Her research examined the potential of nanocomposites in inhibiting bacterial growth through photodynamic therapy, which has implications for developing advanced antimicrobial treatments.**Mr. Aamir Khan (Department of Zoology, DHSGV)** presented his findings on *"Impact of Synbiotics on Estrogen Receptors Affecting Reproductive Physiology of Male Coturnix coturnix japonica."* His study investigated the influence of synbiotics on hormonal regulation and reproductive health in male **Japanese quails**, providing insights into potential nutritional interventions.**Ms. Anshika Yadav (Department of Zoology, DHSGV)** delivered a paper titled *"Parasitic Helminth Diversity in Fish of Ganges and Betwa Rivers: A Comparative Morphological Study."* Her research focused on helminth parasites in freshwater fish species, comparing their prevalence and morphological characteristics in two major Indian river systems.**Ms. Kainat Usmani (Department of Zoology, DHSGV)** presented her study on *"Chitosan Nanoparticle-Mediated Delivery of Earthworm Extract: Investigating the Therapeutic Potential in Allergic Asthma Through In Vivo Regulation of NF-kB and Histone Deacetylase Activity."* Her work explored a novel drug delivery system for treating allergic asthma using bioactive compounds derived from earthworms.**Mr. Anupam Kumar (Department of Zoology, DHSGV)** discussed *"Targeted Isolation and Characterization of Phosphate-Solubilizing Rhizobacteria: Development of Bio-Inoculants for Optimized Phosphorus Acquisition and Sustainable Crop Production."* His study emphasized the role of beneficial soil bacteria in improving phosphorus uptake in crops, contributing to sustainable agriculture.**Ms. Archana (Lalit Narayan Mithila University, Darbhanga)** presented a paper titled *"The Efficacy of Daidzein on Enzymic Antioxidants and Cytotoxicity Induction in Cultured Ovarian Cancer Cell Line."* Her

research focused on the anti-cancer properties of **daidzein**, a naturally occurring isoflavone, and its potential to induce cytotoxic effects in ovarian cancer cells.**Dr. Manju Bhaskar (Chhatrapati Shahuji Maharaj University, Kanpur)** concluded the session with her presentation on *"Ornithological Survey of the Gangetic Region in Kanpur District: Diversity and Distribution Patterns."* Her study provided an in-depth analysis of bird diversity in the Gangetic plains, contributing valuable data for avian conservation efforts.

Researcher presenting their work during the oral presentation session sharing valuable insights and engaging with the audience.

Session II

Session II featured five presenters who delivered insightful research presentations on a range of scientific topics. The session was **chaired by Prof. Keshav Singh**, and **Dr. Lebin Thomas** served as the **rapporteur**. Each presentation focused on critical advancements in their respective fields.

Mr. Pritam Chakrabarti (IIT-Guwahati) presented a research paper titled *"Repurposing of Shukramatrika Bati to Develop Novel Anticancer Therapy."* His study explored the potential of Shukramatrika Bati, a traditional medicinal formulation, in developing innovative anticancer treatments. The research emphasized its pharmacological properties and mechanisms that could contribute to combating cancer.**Mr. Suraj Kumar (Lalit Narayan Mithila University, Darbhanga)** presented a paper on *"Assessment of Pulmonary Function and Respiratory Health of Women and Children Exposed to Indoor Air Pollution in Villages of Darbhanga, Bihar."* His study focused on the detrimental impact of indoor air pollution on vulnerable populations, particularly women and children, highlighting the need for improved air quality measures and public health interventions.**Mr. Debabrata Dash (Department of Zoology, DHSGV)** presented his research titled *"The UPR Pathway in Liver Cirrhosis and Hepatic Encephalopathy: A Critical Connection."* His work delved into the Unfolded Protein Response (UPR) pathway and its role in the pathogenesis of liver cirrhosis and hepatic encephalopathy, providing crucial insights into disease progression and potential therapeutic targets.**Ms. Ankita Dwivedi (Department of Zoology, DHSGV)** delivered a presentation on *"A Dose-Dependent Evaluation of Neurotoxic Impact of TBBPA in Neurobehavioral Impairment and Developmental Alterations in Zebrafish."* Her research investigated the toxic effects of Tetrabromobisphenol A (TBBPA), a widely used flame retardant, on zebrafish models. The study provided valuable findings on its neurodevelopmental toxicity and implications for environmental health.**Mr. Raghwendra Niranjan (Department of Zoology, DHSGV)** also presented his research, contributing valuable insights into his field of study.

The researcher showcases their work during the oral presentation session, offering valuable insights and engaging with the audience

Technical Session III

Session III featured eleven research presentations covering a diverse range of topics within the field of zoology and environmental sciences. The session was **chaired by Dr. Giribabu Nelli**, with **Dr. Sweta Sharma** serving as the **rapporteur**. The research findings presented in this session provided valuable insights into various aspects of toxicology, climate effects, biodiversity, and neurobiology.

Ms. Smita Maurya (C.M.P. Degree College, Prayagraj) presented a research paper titled *"Ameliorative Effect of Curcumin on Polystyrene-Induced Ovarian Toxicity in Teleost Fish, Channa punctatus (Bloch)."* Her study explored the protective role of curcumin against ovarian toxicity caused by polystyrene exposure in fish models, emphasizing its potential in mitigating environmental toxicant effects.**Mr. Siddharth Rajpoot (Department of Zoology, DHSGV)** delivered a presentation on *"MC-LR-Induced Modulation of Unfolded Protein Response-Related Gene Expression in Mice and the Ameliorative Role of Coenzyme Q10."* His research focused on how Microcystin-LR (MC-LR) affects unfolded protein response pathways in mice and the protective benefits of Coenzyme Q10.**Mr. Mohd. Sanawar Khan (CMP Degree College)** presented his study titled *"Lactational Exposure Effect of Brexpiprazole on the Body Weight of Albino Mice."* The research investigated the impact of lactational exposure to Brexpiprazole, an antipsychotic drug, on body weight regulation in albino mice.**Ms. Ameya R (Department of Zoology, DHSGV)** presented *"From Temperature to Humidity: How Climatic Factors Influence Insect Communities."* Her research provided an in-depth analysis of how environmental factors such as temperature and humidity affect insect population dynamics and biodiversity.**Dr. Priyoneel Basu (Department of Zoology, DHSGV)** discussed *"Metoclopramide Modulates Photic Signals in Descending Contralateral Motion Detector Neurons in the Grasshopper."* His study examined the effects of Metoclopramide on neural responses to light stimuli in grasshoppers, shedding light on neurophysiological processes.**Ms. Shruti Jain (Department of Zoology, DHSGV)** presented *"Mechanistic Insights into Antioxidant Pathway Alteration by Microcystin-LR and the Protective*

Role of Coenzyme Q10." Her work focused on oxidative stress mechanisms induced by MC-LR and how Coenzyme Q10 may counteract these effects.**Ms. Pooja Tiwari (Department of Zoology, DHSGV)** shared her research on *"Endemic Earthworm Diversity in Madhya Pradesh: A Study of Distribution in Nauradehi Wildlife Sanctuary."* The study aimed to document and analyze the biodiversity of earthworms in a key wildlife sanctuary, contributing to ecological conservation efforts.**Mr. Vineet Kumar (Department of Zoology, DHSGV)** presented a comprehensive review titled *"Molecular Mechanism of Phytochemical-Mediated Gut-Brain Axis Regulation, Depression Treatment, and Neuroprotection."* His study explored the therapeutic potential of phytochemicals in modulating the gut-brain axis and their implications for mental health treatment.**Ms. Roshni Rajpoot (Department of Zoology, DHSGV)** presented *"Protective Role of Coenzyme Q10 Against Microcystin-LR-Induced Oxidative Stress in Mice."* Her research further investigated the antioxidant properties of Coenzyme Q10 in mitigating oxidative damage caused by MC-LR exposure in mice models.**Ms. Sneha Bibyan (Department of Zoology, DHSGV)** discussed her study titled *"Diethyl Phthalate-Mediated Neurotoxicity: Insight into Mitochondrial Dysfunction and Behavioral Disturbance in Zebrafish."* This research examined the neurotoxic effects of diethyl phthalate, highlighting its impact on mitochondrial function and behavior in zebrafish models.**Ms. Priyanka Gupta (Department of Zoology, DHSGV)** concluded the session with her presentation on *"Mint as a Natural Insecticide: Its Effectiveness Against Cockroaches for Sustainable Pest Management."* Her study evaluated the efficacy of mint-based natural insecticides as an eco-friendly alternative to chemical pesticides.

During the oral presentation session, the researcher shares valuable insights and actively engages with the audience while presenting their work

Technical Session IV

Technical session IV was commenced with a **Keynote address byDr. Giribabu Nelli, University of Malaya, Malaysia.** He delivered a compelling talk on "**Integrative insight into metabolic disorder in male infertility: impact of diabetes, Vitamin deficiency, obesity and hypothyroidism**." Dr. Giribabu Nelli provided valuable insights into how diabetes can cause adverse impact on metabolomic disorder, particularly by the deficiency of Vitamin D and hyposecretion of Thyroidism. He emphasized the significance research on the causes and impact on male infertility with the changes of structural and functional characteristic in different metabolites.

Dr. Giribabu Nelli delivering keynote address, followed by a felicitation

Prof. Keshav Singh, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur**.** delivered special lecture on **"Vermicomposting: a tool for waste management and self-employment." Dr. Ashwani Kumar,** Allahabad University, Prayagraj delivered a lecture on **"Omics Insight of Microbe-Driven Contaminant Degradation of Emerging Concern". Dr. Tuneera Bhadauria,** Lucknow University, Lucknow, UP, delivered a lecture on **"Role of earthworms in chromium remediation and soil quality enhancement in tannery effluent-affected soils."** She discussed about the pollutant remediation that how earthworm have potential to remediate the chromium and help to mitigate the pollution

Prof. Keshav Singh, Dr Ashwani Kumar and Dr. Tuneera Bhadauria delivering special lecture

Technical Session V

The session began with a **Keynote address byDr. Ishan Patro,** Jiwaji University, Gwaliar MP.He delivered an informative talk on **"Early life challenges and brain ageing"** covering with the different research area like brain aging and its causes and impairment. He discussed about the **Development and function of microglia** and how it involves in **impaired Gliogenesis for neuro-psychiatric phenotype**. **Dr. Praveen Kumar Korla**, North Carolina State University, USA- **"Bioinformatics data analysis without using coding".** He delivered a special talk about the impact of bioinformatics tools in research institutes/university along with the **Prediction analysis or visualization** and how to select the open access tool for the data analysis. Further, he discussed about the **Muti disease network and Pan-infectious disease** along with the benefit of **Red Sandalwood powder in skin disease. Prof. Dinesh Yadav,** Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP- **"Genomics and bioinformatics insights into nuclear factor-Y (NF-Y) transcription factor in finger millet."** He talked about the wide **genomic level study of nuclear factor-y (NF-Y) transcription factor** of Finger millet.

Dr. Ishan Patro, Dr. Praveen Kumar Korla, Prof. Dinesh Yadav delivering lectures

Young Scientist talk 1: Dr. Mukesh Kumar Meena, National Institute for plant genomic research, New Delhi-"**Role of early signaling modules in plant adaptation to insect infestation."** He gave an informative talk on **Role of early modulates aliphatic signaling** and **Plant defensive response gene** like CNGC 19, it regulates the plant defensive mechanism during the plant adaptation in environment.

Young Scientist talk 2: Dr. Kaushik Kumar Day, Research Hospital Memphis, USA-Integrated proteomics and systems biology analysis reveals mitochondrial associated proteins in Alzheimer disease progression." He discussed about the **Identifying Sex-specific serum proteomes profiling towards biomarkers for** neurodegenerative disease **Alzheimer disease.** He gave the information related to workflow of proteome profiling by plex sequence and omics centric approach for different diseases.

Pictorial Representations of Young Scientist talk 1 and 2

Technical Session VI

The session commenced with an inspiring Keynote Address by **Prof. Vishal Trivedi** from the **Indian Institute of Technology, Guwahati**. He delivered an insightful lecture on **"Characterization of Molecular Determinants of FIKK Kinases to Detect *Plasmodium falciparum*."** Prof. Trivedi delved into the role of FIKK kinases in malaria diagnosis, shedding light on their significance in identifying *P. falciparum*. He elaborated on the **life cycle of the malaria parasite**, emphasizing the process of **screening and selecting primers for PCR assay** to enhance detection accuracy. His talk provided a deeper understanding of molecular approaches in malaria diagnostics, enriching the audience with valuable scientific perspectives.

Keynote Address delivered by Prof. Vishal Trivedi and participants cordially participated in discussion, followed by a felicitation by Dr. Rajkumar Koiri

Special Lecture 15:Dr. Ramwant Gupta from Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, delivered an insightful lecture on **"Enhancing Photosynthetic Efficiency in Crops to Ensure Food Security Under Varied Climatic Conditions."** He emphasized the significance of improving crop productivity through enhanced photosynthetic efficiency for sustainable agriculture. Dr. Gupta also shed light on plant stress responses under varying light intensities, exploring both low and high light conditions. Additionally, he discussed traditional plant breeding techniques as a key approach to optimizing crop resilience and ensuring long-term agricultural sustainability.

Dr. Ramwant Gupta delivering Special Lecture, followed by a felicitation by Dr. Malavika Sikdar

Dr. Amrita Yadav, RRU, Lucknow- "Nature-inspired algorithms: an effective routing solution for drones." She gave a valuable talk on **Genetic algorithms in Systems biology.** She discussed about the soil moisture prediction by algorithm.

The event featured insightful **Key Note Address** on taxonomy, conservation, and traditional medicinal practices by**Dr. Pratyush P. Mahapatra** from the Zoological Survey of India, Kolkata, presented on ***"Taxonomy and Conservation Challenges in Indian Reptiles."*** He explored the morphological characteristics crucial for reptile taxonomy and emphasized the urgent need for habitat conservation, particularly for species like snakes and turtles. His talk highlighted the ecological importance of reptiles and the challenges in preserving their diverse habitats.

Young Scientist Talk: Dr. Shahid Sami Siddique from Government College, Rudrapur, spoke on ***"Hepialus cordyceps complex: A Wonder Drug of the Himalayas."*** He discussed the taxonomy of Himalayan flora and fauna, focusing on the medicinal and traditional uses of ***Hepialus cordyceps***. His lecture shed light on the therapeutic value of this Himalayan marvel and the importance of sustainable practices to protect it.

Dr. Pratyush P. Mahapatra delivering Young Scientist Talk

Prof. Siddhartha Kumar Mishra, a distinguished academic from the University of Lucknow, Lucknow, recently captivated his audience with an enlightening **Young Scientist Talk** on the **"System Biology Approach in Targeted Therapy."** His presentation, titled ***"Recent Developments in Precision and Molecular Medicine for Cancer Therapy,"*** delved into the cutting-edge advancements that are reshaping the landscape of cancer treatment.During his talk, Prof. Mishra explored the intricate **role of Receptor Tyrosine Kinases (RTKs),** which are commonly implicated in various forms of cancer. He provided a comprehensive overview of how these molecular entities contribute to the pathogenesis of cancer and discussed the potential for targeting them in therapeutic strategies.A significant portion of his presentation was dedicated to the **β-catenin/Tcf 4 complex**, a critical component in the **wntsignalling** pathway, which is often dysregulated in cancer. Professor Mishra elaborated on the use of network analysis as a powerful tool for target discovery, emphasizing how this approach can unravel complex biological interactions and identify novel therapeutic targets. His insights into the system biology approach underscored the importance of integrating computational and experimental methods to enhance the precision of cancer therapies.

Dr. Robin Kumar Pundir, a distinguished faculty member from MIET College, Meerut, delivered another **Young Scientist Talk** on the intriguing topic, ***"Impact of Various LED Light Spectra on Acrylamide Reduction in Post-Harvest Storage of Potatoes (Solanum tuberosum L.)".*** The lecture was a captivating exploration of how different spectra of LED lighting can influence the biochemical properties of potatoes during their post-harvest storage phase.

Dr. Pundir meticulously elaborated on the **effects of LED light on key nutritional and chemical parameters in potatoes, such as total sugar content, protein levels, and the estimation of reducing sugars**. His discussion shed light on the potential of LED technology to not only extend the shelf life of potatoes but also to enhance their nutritional quality by reducing harmful compounds like acrylamide, which is known to form during storage and processing.The lecture was a blend of scientific rigor and practical insights, offering a deeper understanding of how innovative lighting solutions can revolutionize agricultural practices. Dr. Pundir's research underscores the importance of sustainable post-harvest management techniques, paving the way for healthier food storage methods and improved food safety standards. His work stands as a testament to the intersection of technology and agriculture, highlighting the transformative potential of LED light spectra in the realm of food science and preservation.

Prof. Siddharth Kumar Mishra and Dr. Robin Kumar Pundir, delivering Young Scientist Talk

Mr. Ashvani Kumar Shrivastava, a scholar from Banaras Hindu University (BHU), Varanasi, delivered an enlightening lecture under the **"Young Scientist Talk"** category. His presentation, titled *"**Toxicological Effect of 4-Octylphenol Exposure on Hematological Parameters in the Stinging Freshwater CatfishHeteropneustes fossilis:*A Comparative Study Across Three Reproductive Cycles,"** captivated the audience with its depth and scientific rigor.In his talk, Mr. Shrivastava meticulously explored the toxic effects of 4-octylphenol, a chemical compound known for its environmental and biological impact, on the **hematological and biochemical parameters of *Heteropneustes fossilis***, a stinging freshwater catfish widely used as an animal model in toxicological studies. He provided a comprehensive analysis of how exposure to this endocrine-disrupting chemical influences blood parameters and induces biochemical toxicity, particularly across three distinct reproductive cycles of the species.

Mr. Ashvani Kumar Shrivastava delivering Young Scientist talk

Poster Presentation Session

The conference was a vibrant hub of intellectual exchange, featuring an impressive array of 69 posters. These posters showcased groundbreaking research spanning a diverse range of significant topics within the fields of Life Sciences.Each presentation was a testament to the dedication and innovation of the researchers, offering fresh insights and novel approaches to some of the most pressing questions in these disciplines.The poster sessions were a highlight of the event, providing a dynamic platform for scholars and master's students to engage in meaningful discussions, share their findings, and foster collaborations. The atmosphere was charged with curiosity and enthusiasm as attendees moved from one poster to another, absorbing the wealth of knowledge on display. From

cutting-edge advancements in molecular biology to innovative solutions for environmental sustainability, the posters painted a comprehensive picture of the current state and future directions of scientific inquiry.Here's a glimpse into the poster sessions, where the convergence of ideas and the spirit of discovery were palpable, leaving an indelible mark on all who participated

Glimpse of Poster Presentations

Day 3: International Conference & International Women's Day Celebration (March 8, 2025)

The last day of the International Conference was marked by the grand celebration of International Women's Day on March 8, 2025. The session was hosted by **Dr. Somenath Ghosh,** who welcomed all the attendees and set the tone for the day's discussions.

The inaugural session began with an inspiring keynote address by **Professor Shweta Yadav**, Convenor and Head of the Department of Zoology and Director of Research and Development (DoRD).She commenced her talk by extending warm greetings to all the remarkable women present: **"Happy Women's Day."**Prof. Yadav then shared her personal journey, reflecting on the challenges she overcame to reach where she is today. She recounted how she lost her father at the young age of 4.5 years but persevered in her academic pursuits. By the age of 18, she had completed her M.Sc., and at 22, she successfully cleared higher education qualifications, marking the beginning of her professional journey.During her address, she highlighted the stark differences between the way a typical day begins for men and women, emphasizing that while progress has been made, women continue to fight for equal opportunities and representation in various fields. She acknowledged that governments, including **the Prime Minister's Office (PMO),** have introduced numerous schemes

for women, such as **Beti Bachao Beti Padhao (BBBP)**, **One Stop Centre Scheme (OSC), Pradhan Mantri Matru Vandana Yojana (PMMVY), Sukanya Samriddhi Yojana, National Mission for Empowerment of Women (NMEW), Nari Shakti Puraskar, Digital Literacy for Women etc.**Also, she posed a critical question—**How many women are actually present in the workforce**?Prof. Yadav described this phase as a "**Transition Period**" for women, where they must ***continue working harder to break barriers and overcome persistent challenges***. She urged women to **embrace every challenge as an opportunity** to prove their capabilities and drive change.

Sharing an experience from her own career, she recounted facing challenges in studying earthworms in the dense forest of the North Eastern Region of India under a DBT project on diversity, which involved fieldwork—a domain traditionally dominated by men. She emphasized that rather than comparing men and women, the focus should be on fostering an inclusive and supportive environment for all.Providing statistical insights, she noted that until **2015,** there were only **23 women Vice Chancellors** (VCs) in universities across India. However, the scenario is gradually improving, and today, that number has risen to **70 women Vice Chancellors.**A significant milestone was also marked by Dr. Harisingh Gour Vishwavidyalaya, which got the leadership of **Prof. Neelima Gupta**, **its first-ever female Vice Chancellor** since its establishment in 1946.

Prof. Yadav concluded her speech by urging everyone to work towards shattering glass ceilings and eliminating unconscious biases and stereotypes that continue to hinder women's progress. She highlighted key challenges such as **work-life balance**, **lack of mentorship**, and **systemic barriers**, which must be addressed to create a more equitable and supportive ecosystem for women in academia and beyond.The session set a powerful precedent for the rest of the day's discussions, reinforcing the need for sustained efforts toward gender equality and empowering women across all domains.

Prof. Shweta Yadav, the convener addressing the inaugural session of International Women's Day, followed by her felicitation by Prof. Vandana Soni

The event went a forward withan inspiring and thought-provoking talk by **Prof. Vandana Soni I/C Women Development Cell**. She began her speech by emphasizing that ***Women's Day is an Utsav (celebration) for all women***, a day to take pride in their identity. She encouraged women to proudly embrace their existence, recognizing their strength and significance in society.Prof. Soni described women as **"Ashawadi Mahila"** (**Optimistic Women**), stating that women serve as the central point in every aspect of life—be it family, career, or society. However, she also addressed the barriers that hinder women's growth and the need to identify and overcome these challenges.

Prof. Vandana Soni delivering the inaugural address on Women's Day, followed by her felicitation by Dr. Vandana Vinayak

She pointed out that while 26% of women are engaged in politics, women continue to face challenges even in traditionally women-dominated fields due to hesitation and limitations imposed by societal norms. She posed a crucial question: ***What stops women from achieving their goals****?* The answer, she noted, often lies in deeply ingrained stereotypes—that women are soft and emotional. However, she strongly emphasized that being soft does not mean being weak.Throughout her talk, she mentioned several remarkable women who have made history, including:**Kamala Harris** – The first female Vice President of the United States, **Jacinda Ardern** – Former Prime Minister of New Zealand, **Indira Gandhi** – India's first female Prime Minister, **Mary Batra&Mary Kom**–Renowned sportswomen who have brought laurels to the country. These women, she said, serve as examples of resilience, determination, and leadership, inspiring others to break barriers and strive for excellence.She concluded her inspiring address with a heartfelt poem:**"Nari, Tum Sangharsh ki Gatha Ho…"**. The session was a tribute to the strength, resilience, and aspirations of women, leaving the audience with a sense of empowerment and a renewed determination to break barriers and redefine leadership.

Then after which **Prof. G.C. Pandey** addressed the gathering with insightful remarks, beginning by acknowledging the higher participation of women in the conference. He expressed his appreciation for this growing representation, emphasizing that women's active involvement in such platforms signifies progress and empowerment.Prof. Pandey drew a comparison with China, highlighting that the country has a significantly higher percentage of working women. He pointed out that this serves as an example of how increased female participation in the workforce can drive national progress and economic development.With deep reverence, Prof. Pandey saluted **"Nari Shakti"** (Women's Power), recognizing the invaluable contributions of women across all aspects of life. He made a powerful analogy, stating that "Mother is like Prithvi (Earth)" because just like the Earth, a mother only knows how to give selflessly, nurturing life without expecting anything in return.Prof. Pandey

emphasized the idea that in a society where women are educated, values and traditions (Sanskars) thrive. He pointed out that Indian culture has long recognized the strength and divinity of women, as seen in the reverence for goddesses. He noted that even in religious contexts, goddesses are often placed before gods, as seen in divine pairings like:Sita-Ram, Radha-Krishna.This, he explained, reflects the deep-rooted respect for women in Indian traditions and mythology, reinforcing the belief that empowering women leads to a more balanced and enlightened society.During the session, **Dr. Pooja Kumari** captivated the audience by sharing a heartfelt poem dedicated to women. With deep emotion, she recited:

"सुबह होती है, शाम होती है, उम्र यूंही तमाम होती है... "

Through these lines, she beautifully encapsulated the relentless journey of a woman's life, from dawn to dusk, filled with responsibilities, sacrifices, and perseverance. Her poem resonated deeply with the audience, leaving a lasting impact as it highlighted the silent strength and endurance of women across generations.The recital was a fitting tribute to women's resilience, inspiring everyone to acknowledge and celebrate their contributions in every sphere of life

Prof. G.C. Pandey delivering his talk on Women's Day, followed by a heartfelt poem recitation by Dr. Pooja Kumari in celebration of the occasion

Technical Session I- Day 3 of the Conference

Chairperson: Dr. Tuneera Bhaduria, Dr. Amrita Yadav **Rapporteur:** Dr. Arti Gupta

The final day of the conference was celebrated as **Women's Day**, highlighting the contributions of women in science and research. The technical session featured an array of distinguished women scientists who presented their groundbreaking research in diverse fields, including biodiversity, medical sciences, and environmental sustainability.

The session commenced with a keynote address by **Dr. Vinita Gowda,** Professor at the Indian Institute for Science Education and Research (IISER), Bhopal. She delivered a compelling talk on "**Understanding Indian Biodiversity Using Molecular and Classical Taxonomy Tools: Stories**

from the Indian Mountains." Dr. Gowda provided valuable insights into how integrating molecular techniques with classical taxonomy can enhance our understanding of India's rich biodiversity, particularly in its mountainous regions. She emphasized the significance of genetic studies in conservation biology and the challenges faced in preserving native species.

Prof. Vinita Gowda delivering the keynote address, followed by her felicitation by Dr. Rashmi Srivastava

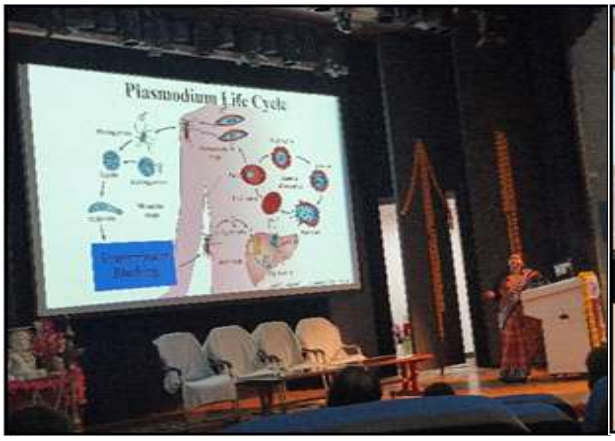
Thereafter a **special lecture**by**Dr. Rashmi Srivastava,** Associate Professor at the University of Allahabad, Prayagraj, was delivered on **"Impact of Withaferin-AonDiabetes Mellitus-Induced Female Reproductive Dysfunction Mediated by GnRH-1 in the Brain and ERs in the Ovaries of Swiss Albino Mice."** She discussed the physiological effects of diabetes on female reproductive health and how Withaferin-A, a bioactive compound, shows potential in mitigating these effects by modulating hormone regulation in the brain and ovaries.

Dr. Rashmi Srivastava delivering special lecture, followed by her felicitation by Prof Tuneera Bhaduria

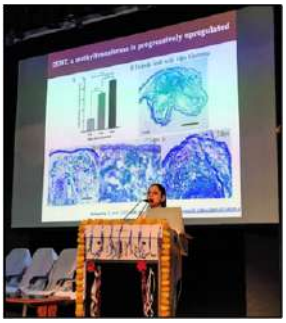
Dr. Kirsten Paff, from Los Alamos National Laboratory, USA (delivered online), presented another **Special lecture** on "Impact of Drought on Global Food Security by 2050." She elaborated on climate change models and their projections for food availability in the coming decades. Dr. Paff emphasized the role of scientific research in developing resilient agricultural systems to combat food scarcity caused by severe droughts.The session also included insightful presentations by accomplished women scientists from different institutions, covering a range of scientific disciplines:

Women Scientist Talks

Dr. Babita Sharma, from Patna Science College, Patna, presented her research on **"Plasmodium P25 Proteins and Their Interactions: Understanding Malaria Transmission Blocking."** Her study explored the role of P25 proteins in the malaria parasite and how targeting these proteins could contribute to developing novel malaria control strategies.



Dr. Babita Sharma presenting her research for the Women Scientist Award, followed by her felicitation by Dr. Amrita Yadav



Dr. Cuckoo Mahapatra, from Maharaja Sriram Chandra Bhanja Deo University, Takatpur, shared her findings on **"RNA-Seq Analysis Reveals Species-Specific Expression of Regeneration-Inducing Genes During Hand Limb Regeneration in the Indian Frog *Polypedates maculatus*."** Her research highlighted the genetic mechanisms underlying tissue regeneration in amphibians, providing potential applications for regenerative medicine.

Dr. Pooja Kumari, from Raja Mahendra Pratap Singh University, Aligarh, presented her study on "Evaluation of Optimal Anesthetic Concentration for Complete Anesthetization of Channa punctatus and Channa gachua." She focused on identifying safe and effective Anaesthetic dosages for these fish species, crucial for aquaculture practices and laboratory research.

Dr. Pooja Kumari presenting her research for the Women Scientist Award, followed by her felicitation by Dr. Arti Gupta

Technical Session II

Session Chairperson: Dr. Vandana Vinayak, Dr. Vinta Gowda **Rapporteur:** Dr. Archita Singh

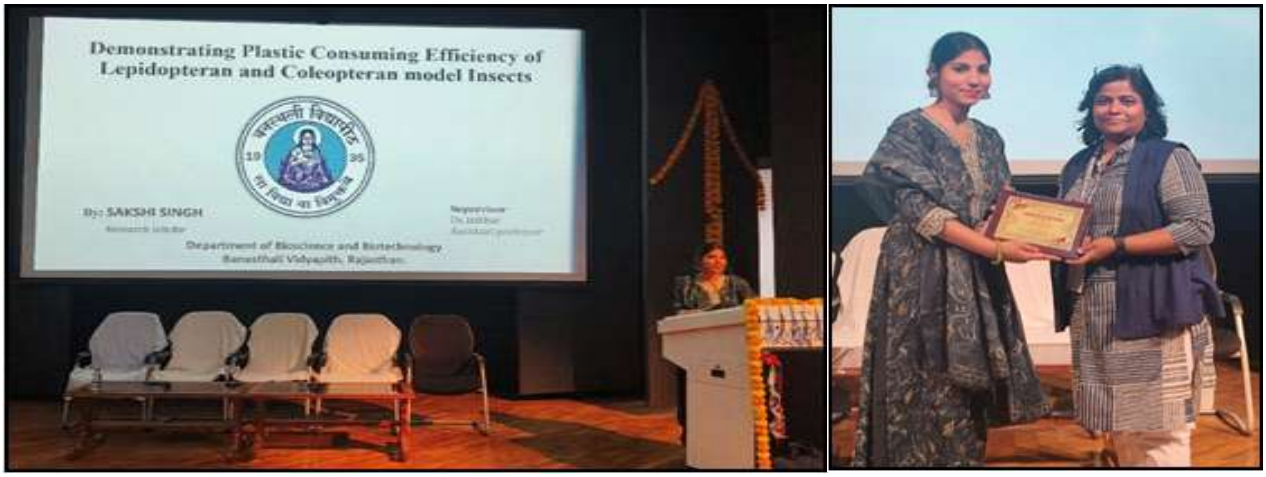
The session commenced with a **keynote address** by **Dr. Swati Tripathi** from Amity University, Noida, who delivered an insightful talk on **"Revitalizing Soils and Improving Crop Yield with Nano-Microbial Solutions."** Dr. Tripathi highlighted the potential of nanotechnology and microbial-based approaches in enhancing soil fertility and crop productivity. She discussed the role of nano-microbial formulations in improving nutrient availability, reducing dependency on chemical fertilizers, and promoting sustainable agricultural practices.

Dr. Swati Tripathi delivering the keynote address, followed by her felicitation by Prof. Shweta Yadav

The session also showcased the significant contributions of women scientists in diverse research areas:

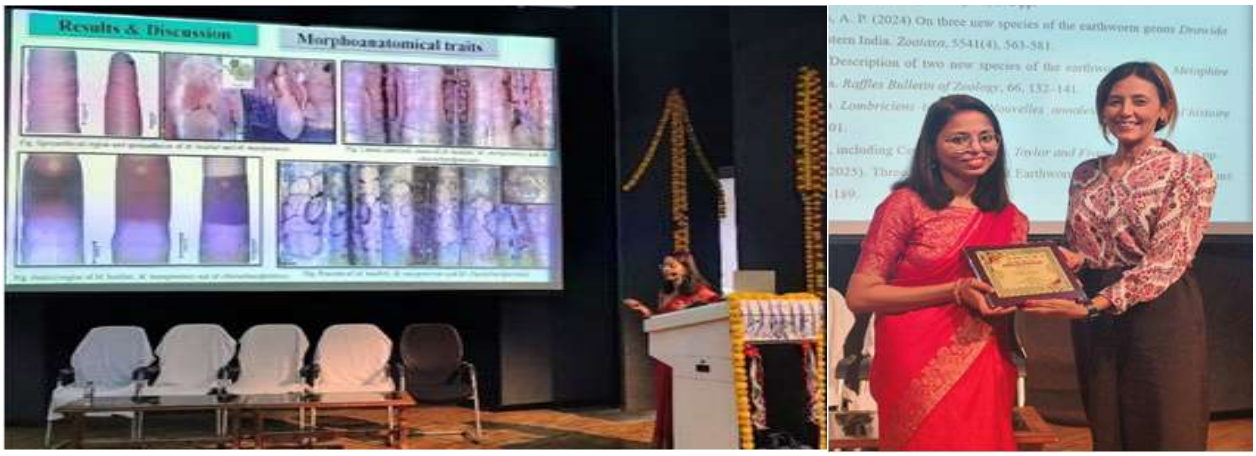
Women Scientist Talks:

Ms. Sakshi Singh, from Banasthali Vidyapeeth, Banasthali, presented her research on **"Demonstrating plastic consuming efficiency of Lepidopteran and Coleopteran model Insects."** Her study explored the potential of insect larvae in breaking down plastic waste, offering an eco-friendly solution to plastic pollution. She discussed the enzymatic mechanisms involved and their implications for environmental sustainability.



Ms. Sakshi Singh presenting her research for the Women Scientist Award, followed by her felicitation by Dr. Archita Singh

Dr. Nalini Tiwari, from Dr. Harisingh Gour Vishwavidyalaya, Sagar, delivered a talk on **"Breaking the Complexity: Identifying Two Different Species of Earthworm in the *Metaphire houlleti* Complex Through Integrative Taxonomy."** Her research employed integrative taxonomy techniques, combining morphological and molecular to distinguish between closely related earthworm species. This study contributes to biodiversity conservation and soil health management.



Dr. Nalini Tiwari presenting her research for the Women Scientist Award, followed by her felicitation by Dr. Vandana Vinayak

Dr. Kiran Singh, from Dr. Harisingh Gour Vishwavidyalaya, Sagar, presented her research on **"*Salvia hispanica* Seed Extract-Mediated Synthesis of ZnO Nanoparticles for Enhanced Antioxidant, Antidiabetic, Antimicrobial, and Dye Degradation Activities."** She discussed the green synthesis of zinc oxide nanoparticles using chia seed extracts and their multifunctional applications in healthcare and environmental remediation.

Dr. Kiran Singh presenting her research for the Women Scientist Award, followed by her felicitation by Dr. Rashmi Srivastava

Valedictory Session

The valedictory session of the three-day International Conference on Advances in System Biology commenced with esteemed dignitaries on the dais, including Prof. Subodh Kumar Jain, Prof. Versha Sharma, Prof. Shweta Yadav, Dr. C.P. Upadhyaya, and Dr. Rajkumar Koiri. The session marked the culmination of insightful discussions, knowledge sharing, and recommendations for future advancements in the field of system biology.

Honouring our esteemed dignitaries with a warm welcome and a token of appreciation at the valedictory session

Dr. C.P. Upadhyaya, the Organizing Secretary of the conference, delivered an address to the gathering, highlighting the successful execution of the conference and the collective efforts of the organizing team. Following this, **Prof. Shweta Yadav**, the Convener of the conference, presented a comprehensive **deliberation of the key discussions**, breakthroughs, and contributions made over the three days of the international conference.

The Convener delivering the conference deliberation, highlighting key insights and achievements, while the Organizing Secretary extends a warm welcome during the valedictory session

Dr. Rajkumar Koiri, the **Co-Organizing Secretary,** introduced the recommendations formulated during the conference, which were then placed before the audience for approval and suggestions. The key recommendations included:

1. **Increased emphasis on emerging technologies** – Prioritizing advancements in single-cell analysis, artificial intelligence, and machine learning in system biology research.
2. **Enhanced focus on translational research** – Encouraging the practical application of research findings in clinical settings.

3. **Diversification of topics** – Expanding discussions to include synthetic biology and environmental systems biology.
4. **Enhanced opportunities for young researchers** – Introducing more dedicated sessions, mentorship programs, and networking opportunities for early-career scientists.
5. **Improved accessibility and inclusivity** – Facilitating virtual participation options and promoting diversity by encouraging engagement from underrepresented groups.
6. **Public engagement initiatives** – Organizing outreach activities and science communication programs to enhance public understanding of system biology.
7. **Strengthening industry-academia interaction** – Establishing stronger collaborations between research institutions and industry to facilitate innovation and real-world applications.
8. **Student placement opportunities** – Creating structured platforms to support students in securing placements and career opportunities in system biology.
9. **Guidance from keynote speakers** – Requesting keynote speakers to elaborate on available academic and career opportunities for students.

The Co-Organizing Secretary presenting conference recommendations for approval, while the audience actively engages by sharing their valuable insights and suggestions

Prof. Versha Sharma, Dean, School of Biological Sciences, addressed the audience, emphasizing the importance of interdisciplinary collaboration and the impact of system biology on scientific and medical advancements.

Prof. Versha Sharma, Dean, School of Biological Sciences, delivering an insightful address at the valedictory session, highlighting key takeaways and future perspectives

Awards and Recognitions

The conference recognized outstanding contributions through various awards across different categories:

Women Scientist Award:

- Prof. Vinita Gowda
- Dr. Amrita Yadav
- Dr. Cuckoo Mahapatra
- Dr. Pooja Kumari
- Dr. Tuneera Bhadauria
- Dr. Swati Tripathi
- Dr. Nalini Tiwari
- Dr. Kiran Singh

Celebrating BrilliantMinds and groundbreaking discoveries—honoring the Women Scientists shaping the future!

Young Scientist Award:

- Dr. Mukesh Kumar Meena
- Dr. Kaushik Kumar Day
- Dr. Robin Pundir
- Dr. Rashmi Srivastava
- Dr. Keshav Singh

Celebrating the achievements of the Young Scientist Award recipients

Senior Scientist Award:

- Dr. Vishal Trivedi
- Dr. Shireesh Srivastava
- Prof. Siddhartha Mishra

Prof. Siddhartha Mishra honored with the Senior Scientist Award for his outstanding contributions to research and innovation

Best Oral Presentation:

1. Mr. Debabrata Dash & Mr. Pritam Chakraborty
2. Ms. Ankita Dwivedi& Ms. Pooja Tiwari
3. Mr. Siddhartha Rajpoot & Ms. Roshni Rajpoot

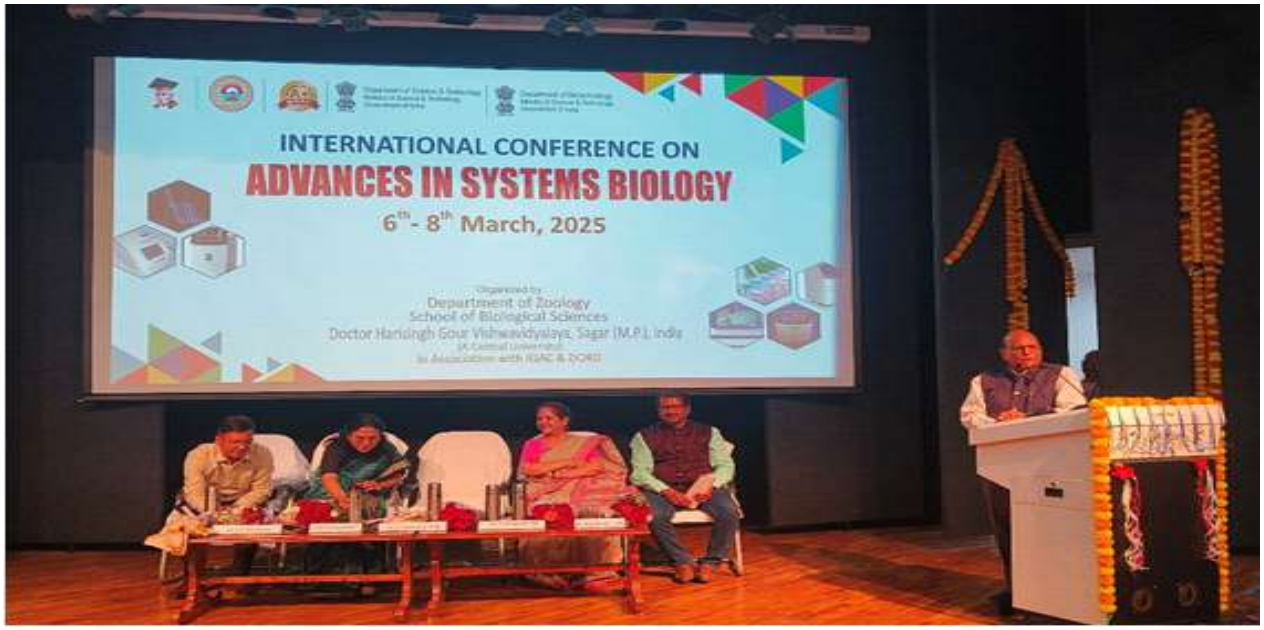
Recognizing excellence in research communication! Congratulations to the Best Oral Presentation Awardees for their outstanding presentations

Best Poster Presentation Award:

1. Mr. Kuldeep Gauliya & Mr. Kartikey Mishra
2. Ms. Kainat Usmani & Ms. Ankita Das
3. Mr. Abhishek Pathak & Mr. Manish Kumar Manjhi

Honouring excellence in research presentation! The Best Poster Presentation Awardees were recognized for their impactful and innovative contributions to their fields

The valedictory session concluded with an address by Prof. Subodh Kumar Jain, who commended the organizers for their dedication and highlighted the significance of the discussions held during the conference.



Senior Professor Subodh Kumar Jain delivering an insightful address at the valedictory session highlighting key takeaways and future directions in research

Dr. Rajkumar Koiri delivered the **formal vote of thanks**, expressing gratitude to all speakers, participants, and organizing members for their invaluable contributions in making the event a grand success. The session ended on a high note, with participants looking forward to future collaborations and continued advancements in system biology.

Participants sharing their valuable feedback, reflecting on insightful discussions, learning experiences, and future collaborations

Bringing together brilliant minds! A memorable group photograph capturing the spirit of collaboration and innovation

On March 7th, the cultural event at ICASB 2025 showcased a vibrant array of performances by delegates, M.Sc students, and faculty members. The event commenced with a captivating Kathak Guru Vandana presented by Dr. Vandana Vinayak, Moksha Gupta, Divya Shrivas, Damini Nag, and Vaishnavi Tiwari. Prof. KC Joshi and Dr. Somenath Gosh set the tone with a recitation of a poem, followed by Priyanka Yadav's melodious rendition of "Song Soni (O re Chiraiya)". Neeraj Kapoor entertained the audience with a solo mimicry act, while Kriti Rastogi and Priyanka Yadav mesmerized everyone with their duet dance performance. Vikram Singh paid tribute to Kishore Kumar with a mashup of his songs, and Priyanka R Singh and Bushra Khan brought a Punjabi flavor with their duet dance. Priyanka Das showcased her solo dance skills, and the group of Ameya. R, Rithin KR, Neeraj Kapoor, Devyani Keshav Godbole, and Salamonraj E added to the vibrant atmosphere with their jamming session of old melodies. Ritika Sahu and Aastha Sisodiya presented a captivating duet dance featuring Rajasthani folk dances, while Dr. Priyoneel Basu enhanced the presentation beautifully, and Dr. Malvika Sikdar concluded the cultural event.

Faculty and students showcased vibrant performances of song and dance during the cultural night at the international conference, celebrating diversity and tradition

Recommendations

After a three-day international conference on "**Advances in System Biology" 6-8th March, 2025,** following extensive discussions and presentations, the conference recommended:

1. Increased Emphasis on Emerging Technologies:

- **Single-Cell Analysis**: The program featured some research on single-cell analysis, but given its growing importance in understanding cellular heterogeneity, future conferences could dedicate more sessions or workshops to this topic.
- **Artificial Intelligence and Machine Learning:** While some presentations touched upon bioinformatics and data analysis, a dedicated focus on AI/ML applications in systems biology could be beneficial, given their increasing role in analyzing complex datasets and developing predictive models.

2. Enhanced Focus on Translational Research:

Clinical Applications: While the program covered various aspects of systems biology, future conferences could emphasize the translation of research findings into clinical applications, such as diagnostics, drug discovery, and personalized medicine.

3. Diversification of Topics:

- **Synthetic Biology**: While the conference touched upon some aspects of biotechnology, a more focused exploration of synthetic biology, including gene editing, genetic circuits, and bioengineering, could be incorporated.
- **Environmental Systems Biology**: Given the growing concerns about environmental issues, incorporating sessions on applying systems biology to environmental challenges, such as pollution remediation and climate change, could be valuable.

4. Enhanced Opportunities for Young Researchers:

- **Dedicated Sessions**: The program included Young Scientist Award sessions, which could be expanded to provide more opportunities for young researchers to present their work and network with established scientists.
- **Mentorship Programs**: Consider implementing mentorship programs to connect young researchers with senior scientists for guidance and career development.

5. Improved Accessibility and Inclusivity:

- **Virtual Participation:** Offer options for virtual participation to increase accessibility for researchers who may be unable to attend in person.
- **Bio-diversity and Inclusion:** Actively promote diversity and inclusion by encouraging participation from under represented groups in systems biology.

6. Public Engagement:

- **Outreach Activities:** Incorporate outreach activities to engage the public and raise awareness about the importance and potential of systems biology.
- **Science Communication:** Encourage researchers to communicate their findings to a broader audience through accessible formats like blog posts, social media, and popular science articles.

Technical Programme

International Conference on

"ADVANCES IN SYSTEMS BIOLOGY"

MARCH 6-8, 2025

Time	Activity	Title	Venue
6th March, 2025			
09:00-10:30 am	**Registration** (Kit, Certificate, Coupons, Payment, Abstract book, Signature, Receipts)		***Abhimanch Sabhagar***
10:30-12:30 pm	**Inaugural Session & Plenary lecture** (Lifetime Achievement Award) by **Prof. A.P. Dash,** Member CSIR Society *End NTDs to achieve SDGs*		***Abhimanch Sabhagar***
12:30-13:00 pm	**Tea**		***Abhimanch Sabhagar***
13:00-14:20 pm	**Technical Session I**		***Abhimanch Sabhagar***
Session Chair: Prof. A.P. Dash Dr. Ashok Kumar **Rapporteur:** Dr. Shashwat Singh	**Key note address 1** 13:00-13:40 pm	**Dr. Gopal Krishna** ICAR-CIFE, Mumbai *Fisheries Development vis-a-vis Technology Intervention*	
	Special lecture 1 13:40-14:20 pm	**Dr. Vineet Kumar Singh** Unicorn Natural Products Pvt. Ltd., Hyderabad *Beyond Label: Relative retention strategies to divulge steroidal lactones for thwarting state-of-the-art adulteration in Ashwagandha root extract*	
14:20 -15:15 pm	**Lunch**		***Acharya Shankar Bhavan***
15:15 -16:15 pm	**Technical Session II**		***Abhimanch Sabhagar***
Session Chair: Dr. Gopal Krishna Prof. Subodh Jain **Rapporteur:** Dr. Sweta Sharma	**Key note address 2** 15:15-15:30 pm	**Prof. BD Joshi** Gurukul Kangri, Haridwar *About cyto-morphological variations in blood corpuscles of fishes under different physio-pathological conditions*	
	Special lecture 2 15:30-15:45 pm	**Dr. Ashok Kumar** Deen Dayal Upadhyay Gorakhpur University, Gorakhpur *Cancer: A preventable epidemic? The role of lifestyle, diet and environment.*	
	Special lecture 3 15:45-16:00 pm	**Prof. Mohd. Arif** Mohammad Ali Jauhar University, Rampur *How to keep Earth liveable*	
	Special lecture 4 16:00-16:15 pm	**Dr. DK Sharma** Dr. B.R. Ambedkar University of Social Sciences, Dr. B.R. Ambedkar Nagar *Hantavirus: a systematic review on pathophysiology, clinical diagnosis, and public health prevention*	

16:20-17:00 pm	**Poster Session-I with Tea** *Acharya Shankar Bhawan*	
17:00-18.00 pm	**Technical Session III: Senior Scientist Award** *Abhimanch Sabhagar*	
Session Chair: Prof. S.C. Joshi Prof. Devashish Bose **Rapporteur:** Dr. Yogesh Bhargava	**Key note address 3** 17:00-17:15 pm	**Prof. Pratyush Shukla** Banaras Hindu University, Varanasi *Innovations in cyanobacterial biotechnology: multifaceted applications and future perspectives*
	Special lecture 5 17:15-17:30 pm	**Dr. GC Pandey** Dr. Ram Manohar Lohia Avadh University, Faizabad *Toxicants of health hazards*
	SS Talk 1 17:30-17:45 pm	**Dr. Shireesh Shrivastava** International Centre for Genetic Engeneering and Biotechnology, New Delhi *Multi-omics investigations reveals insight into the mechanisms behind improved performance of yeast for high gravity fermentation*
	SS Talk 2 17:45-18:00 pm	**Dr. Ram Kumar Nema** ICMR-NIREH, Bhopal *Droplet digital PCR for enteric virus detection: a high sensitivity approach for waste water surveillance*
20:00 hrs	**Dinner**	

7th March 2025		
10:00–12:00 pm	**Technical Session –IV**	***Abhimanch Sabhagar***
Session Chair: Prof. Mohd. Arif Dr. D.K. Sharma **Rapporteur:** Dr. Satyam Verma	**Key note address 4** 10:00-10:15 am	**Dr. Giribabu Nelli** University of Malaya, Kuala Lumpur, Malaysia *Integrative insight into metabolic disorder in male infertility: impact of diabetes, Vitamin D deficiency, obesity and hypothyroidism*
	Special lecture 6 10:15-10:30 am	**Prof. S.C. Joshi**
	Special lecture 7 10:30-10:45 am	**Prof. Keshav Singh** Deen Dayal Upadhayay Gorakhpur University, Gorakhpur *Vermicomposting: a tool for waste management and self-employment*
	Special lecture 8 10:45-11:00 am	**Dr. Kapil Soni** Barkatullah University, Bhopal *α-Terpineol-D3, a bio-active compound derived from Ocimum basilicum (L.) extract's fraction OB-2 reduces LTC-4, COX-2, IL-6 and Lung inflammation in Wistar albino rats Rattus norvegicus.*
	Special lecture 9 11:00-11:15 am	**Dr. Tuneera Bhadouriya** Feroze Gandhi Degree College, Lucknow University, Lucknow *Role of earthworms in chromium remediation and soil quality enhancement in tannery effluent-affected soils*
	Special lecture 10 11:15-11:30 am	**Dr. Amrita Yadav** RRU Lucknow, Lucknow *Nature-inspired algorithms: an effective routing solution for drones*
	Special lecture 11 11:30-11:45 am	**Dr. Ashwani Kumar** Allahabad University, Prayagraj *Omics Insight of Microbe-Driven Contaminant Degradation of Emerging Concern*
	Special lecture 12 11:45-12:00 pm	**Dr. Shivendra Chaurasiya** NIT Bhopal, Bhopal *Glutamate Decarboxylase and Metabolic Adaptation in Mycobacteria: Implications for Intracellular Survival and Drug Resistance*
12:00-12:30 pm	**Poster Session-II with Tea**	***Acharya Shankar Bhavan***

12:30-14:00 pm	**Technical Session V: Young Scientist Award** *Abhimanch Sabhagar*	
Session Chair: Prof. Naveen Kango Prof. Vandana Soni **Rapporteur:** Dr. Payal Mahobia	**Key note address 5** 12:30-12:45 pm	**Dr. Ishan Patro** Jiwaji University, Gwalior *Early life challenges and brain aging*
	Special lecture 13 12:45-13:00 pm	**Dr. Praveen Kumar Korla** North Carolina State University, North Carolina, USA *Bioinformatics data analysis without using coding*
	Special lecture 14 13:00-13:15 pm	**Prof. Dinesh Yadav** Deen Dayal Upadhayay Gorakhpur University, Gorakhpur *Genomics and bioinformatics insights into nuclear factor-Y (NF-Y) transcription factor in finger millet*
	YS Talk 1 13:15-13:30 pm	**Dr. Mukesh Kumar Meena** National Institute for Plant Genomic Research, New Delhi *Role of early signalling modules in plant adaptation to insect infestation*
	YS Talk 2 13:30-13:45 pm	**Dr. Kaushik Kumar Day** Research Hospital Memphis, USA *Integrated proteomics and systems biology analysis reveals mitochondrial associated proteins in Alzheimer's disease progression*
14:00-15:00 pm	**Lunch** *Acharya Shankar Bhawan*	
15:00-16:45 pm	**Technical Session VI: Young Scientist Award Cont.**	
Session Chair: Prof. Pratyush Shukla Dr. Malabika Sikdar **Rapporteur:** Dr. Somenath Ghosh	**Key note address 6** 15:00-15:15 pm	**Prof. Vishal Trivedi** Indian Institute of Technology, Guwahati *Characterization of molecular determinants of FIKK Kinase(s) to detect Plasmodium falciparum*
	Special lecture 15 15:15-15:30 pm	**Dr. Ramwant Gupta** Deen Dayal Upadhyay Gorakhpur University, Gorakhpur *Enhancing photosynthetic efficiency in crops to ensure food security under varied climatic conditions*
	Special lecture 16 15:30-15:45 pm	**Dr. Rajshri Gaur** Deen Dayal Upadhyay Gorakhpur University, Gorakhpur *In silico identification of chilli genome encode MicroRNAs targeting the Candidatus phytoplasma trifolii*

	YS Talk 3 15:45-16:00 pm	**Dr. Shahid Sami Siddique** Governemt PG College, Rudrapur, US Nagar *Hepialus cordyceps complex: a wonder drug in Himalayas*
	YS Talk 4 16:00-16:15 pm	**Ms. Sneha Bibyan** Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar *Diethyl phthalate-mediated neurotoxicity: insight into mitochondrial dysfunction and behavioural disturbance in zebrafish*
	YS Talk 5 16:15-16:30 pm	**Ms. Priyanka Gupta** Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar *Mint as a natural insecticide: its effectiveness against cockroaches for sustainable pest management*
16.30-17:30 pm	**Poster Session-III with Tea**	***Acharya Shankar Bhawan***
17:30-18:30 pm	**Technical Session VII: Young Scientist Award Cont.**	***Abhimanch Sabhagar***
Session Chair: Prof. B.D. Joshi Prof. Ishan Patro **Rapporteur:** Dr. Deepali Jat	**Key note address 7** 17:30-17:45 pm	**Dr. Pratyush P. Mohapatra** Zoological Survey of India, Kolkata *Taxonomy and conservation challenges in Indian repltiles*
	YS Talk 6 17:45-18:00 pm	**Dr. Siddharth Mishra** University of Lucknow, Lucknow *System biology approach in targeted therapy in*
	YS Talk 7 18:00-18:15 pm	**Dr. Robin Kumar Pundir** MIET College, Meerut *Impact of various LED light spectra on acrylamide reduction in post-harvest storage of potatoes (Solanum tuberosum L.)*
	YS Talk 8 18:15-18:30 pm	**Mr. Ashivani Kumar Srivastav** Banaras Hindu University, Varanasi *Toxicological effect of 4-octylphenol exposure on hematological parameters in the stinging fresh water catfish Heteropneustes fossilis: a comparative study across three reproductive cycle*
Cultural Programme: 19:00-20:00 pm		***Abhimanch Sabhagar***
Dinner 20:00 pm		

8th March 2025		
International Women's Day Celebration		
10:00-11:00 am	**Inauguration of International Women's Day** *Abhimanch Sabhagar*	
11:00-11:30 am	**Poster Session-IV with Tea** *Acharya Shankar Bhawan*	
11:30–13:30 pm	**Technical Session –VIII: Women Scientist Award** *Abhimach Sabhagar*	
Session Chair: Dr. Tuneera Bhadouriya Dr. Amrita Yadav **Rapporteur:** Dr. Arti Gupta	**Key note address 8** 11:30-11:45 am	**Dr. Vinita Gowda** Indian Institute for Science Education Research, Bhopal *Understanding Indian biodiversity using molecular and classical taxonomy tools - stories from the Indian mountains*
	Special lecture 17 11:45-12:00 pm	**Dr. Nish Patro** Jiwaji University, Gwalior *Early life challenges and brain aging*
	Special lecture 18 12:00-12:15 pm	**Dr. Rashmi Srivastava** University of Allahabad, Prayagraj *Impact of Withaferin-A on diabetes mellitus induced female reproductive dysfunction mediated by GnRH-1 in Brain and ERs in ovaries of Swiss Albino Mice*
	Special lecture 19 12:15-12:30 pm	**Dr. Kirsten Paff** (Online) Los Alamos National Laboratory, Los Alamos, USA *Impact of drought on global food security by 2050*
	WS Talk 1 12:30-12:45 pm	**Dr. Babita Sharma** Patna Science College, Patna *Plasmodium P25 proteins and their interactions: understanding malaria transmission blocking*
	WS Talk 2 12:45-13:00 pm	**Dr. Cuckoo Mahapatra** Maharajha Sriram Chandra Bhanja Deo University, Takatpur *RNA seq analyses reveal species specific expression of regeneration inducing genes during handling regeneration in the Indian frog Polypedates maculatus*
	WS Talk 3 13:00-13:15 pm	**Dr. Simpal Patil** RS Government PG Girls College, Chhindwara *Role of enzymes and influence of ecological factors on toxicity in plants*
	WS Talk 4 13:15-13:30 pm	**Dr. Pooja Kumari** Raja Mahendra Pratap Singh University, Aligarh *Evaluation of optimal anaesthetic concentration for complete anaesthetization of Channa punctatus and Channa gachua*

13:45-14:30 pm	**Lunch** *Acharya Shankar Bhawan*	
14:30-15:30 pm	**Technical Session IX: Women Scientist Award Cont.** ***Abhimanch Sabhagar***	
Session Chair: Dr. Vandana Vinayak Dr. Vinita Gowda **Rapporteur:** Dr. Archita Singh	**Keynote address 9** 14:30-14:45 pm	**Dr. Swati Tripathi** Amity University, Noida *Revitalizing soils and improving crop yield with nano-microbial solutions*
	WS Talk 5 14:45-15:00 pm	**Dr. Sakshi Singh** Banasthali Vidyapeeth, Banasthali *Larvae of Lepidopteran and Coleopteran insects as an alternative to plastic biodegradation*
	WS Talk 6 15:00-15:15 pm	**Dr. Nalini Tiwari** Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar *Breaking the complexity: identifying two different species of earthworm in the Metaphire houlleti complex through integrative taxonomy*
	WS Talk 7 15:15-15:30 pm	**Dr. Kiran Singh** Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar *Salvia hispanica seed extract mediated ynthesis of zno Nanoparticles for Enhanced Antioxidant, Antidiabetic, Antimicrobial, and Dye Degradation Activities.*
15:30-16:00 pm	**Tea** ***Abhimanch Sabhagar***	
16:00-17:00 pm	**Valedictory function** ***Abhimanch Sabhagar***	

Oral Presentations (8+2 minutes only) (Acharya Shankar Bhawan): 7th March (Day 2)

Oral Presentations Session I (10:00 -12:00 noon); Venue: Acharya Shankar Bhawan
Session Chair:
Prof. Dinesh Yadav
Rapporteur:
Dr. Deepanshi Jaiswal

S. No.	Presenter	Title
Biotechnology		
1	Dr. Neha Joshi Vyom Biotech Pvt Ltd, Indore	Eco-friendly Fe_3O_4 and MnO_2 nanoparticles synthesized via beetroot (*Beta vulgaris* L.) extract: as an antioxidant, antidiabetic, antimicrobial and nano-catalyst agent
Botany		
2	Dr. Arun Kumar Maurya Multanimal Modi College, Modinagar	Rising e-waste-based environmental contamination: assessment of bioaccumulation and toxicity of Indium (In) on moth bean [*Vigna aconitifolia* (Jacq.) Marechal]
3	Dr. Deepak Mishra AKS University, Satna	Genetic diversity of *Boswellia serrata* in Madhya Pradesh
Microbiology		
4	Mr. Ashwini Waghmare DHSGV, Sagar	Tuneable effect of Divalent cations on tendril patterning during swarming motility of *Pseudomonas aeruginosa* through chemical engineering approach
5	Ms. Laxmi Kurmi DHSGV, Sagar	Photodynamic control of *Pseudomonas aeruginosa* by nanocomposites between iron nanoparticles and triphenyl methane-based dyes
Zoology		
6	Mr. Aamir Khan DHSGV, Sagar	Impact of synbiotics on Estroegen receptors effecting reproductive physiology male *Coturnix coturnix japonica*
7	Ms. Anshika Yadav DHSGV, Sagar	Parasitic helminth diversity in fish of Ganges and Betwa rivers: a comparative morphological study
8	Mr. Anupam Kumar DHSGV, Sagar	Targeted isolation and characterization of phosphate-solubilising rhizobacteria: development of bio-inoculants for optimized phosphorus acquisition and sustainable crop production
9	Ms. Archana Lalit Narayan Mithila University, Darbhanga	The efficacy of daidzein on enzymic antioxidants and cytotoxicity induction in cultured ovarian cancer cell line

10	Dr. Manju Bhaskar Chattrapati Shahu Ji Maharaj University, Kanpur	Ornithological survey of the Gangetic region in Kanpur district: diversity and distribution patterns

Oral Presentations Session II (12:00 -14:00 pm); Venue: Acharya Shankar Bhawan
Session Chair:
Prof. Keshav Singh
Rapporteur:
Dr. Lebin Thomas

S. No.	Presenter	Title
11	Ms. Kainat Usmani DHSGV, Sagar	Chitosan nanoparticle-mediated delivery of earthworm extract: investigating the therapeutic potential in allergic asthma through in vivo regulation of NFκB and histone deacetylase activity
12	Mr. Pritam Chakrabarti Indian Institute of Technology, Guwahati	Repurposing of Shukramatrika Bati to develop novel anticancer therapy
13	Mr. Sanjay Kumar Vishwakarma Chhatrasal Govt. PG College, Panna	Assessment of plankton diversity and hydrological parameter of Lokpal sagar lake
14	Mr. Suraj Kumar Lalit Narayan Mithila University, Darbhanga	Assessment of pulmonary function and respiratory health of women and children exposed to indoor air pollution in village of Darbhanga, Bihar
15	Mr. Yashab Kumar Sam Higginbotom University of Agriculture, Technology and Sciences, Prayagraj	Incidences of urinary tract infection in pregnancy
16	Mr. Debabrata Dash DHSGV, Sagar	The UPR pathway in liver cirrhosis and hepatic encephalopathy: a critical connection
17	Ms. Ankita Dwivedi DHSGV, Sagar	A Dose-Dependent Evaluation of Neurotoxic Impact of TBBPA in Neurobehavioral Impairment and Developmental Alterations in Zebrafish
18	Ms. Shahla Nigar M.J.P. Rohilkhand University, Bareilly	Lead induced toxicity and haematological alterations with erythrocyte morphological anomalies in stinging catfish, *Heteropneustes fossilis*

19	Dr. Aditi Mehrotra DHSGV, Sagar	N-Methyl-D-Aspartate (NMDA) Receptors: Therapeutic Target against Cancer
20	Dr. Smita Shukla DHSGV, Sagar	A definitive Compendium of the *Araneae* of Sagar: An Ecological Survey
21	Dr. Neisseril Anirudhan Kashmeera DHSGV, Sagar	A Systematic Review of Centipede (Chilopoda) Diversity in Madhya Pradesh, India: Annotated Checklist and Biogeographical Insights into Knowledge Gap
22	Dr. Raj Kumar Koiri DHSGV, Sagar	Repurposing PDE5 inhibitor tadalafil and sildenafil as anticancer agent against hepatocellular carcinoma
Lunch 14:00-15:00 hrs		**Acharya Shankar Bhawan**

Oral Presentations Session III (15:00 -17:00 pm); Venue: Acharya Shankar Bhawan
Session Chair:
Dr. Giribabu Nelli
Rapporteur:
Dr. Amit Kumar

S. No.	Presenter	Title
23	Ms. Smita Maurya C. M. P. Degree College, Prayagraj	Ameliorative effect of curcumin on polystyrene-induced ovarian toxicity in a teleost fish, *Channa punctatus* (Bloch)]
24	Dr. Sweta Arora Kalinga Institute of Social Sciences Deemed to be University, Bhubaneswar	Protective Effects of *Boerhaavia diffusa* on Hyperglycemia and Diabetic Kidney Damage in a Hamster Model
25	Dr. Priyoneel Basu Kalinga Institute of Social Sciences Deemed to be University, Bhubaneswar	Metoclopramide modulates photic signals in descending contralateral motion detector neurons in the grasshopper
26	Ms. Tripti Verma DHSGV, Sagar	Association of coiled-coil-helix-coiled-coil-helix domain-containing protein2(CHCHD2) gene variants with Parkinson's Disease in the northern India
27	Ms. Shruti Jain DHSGV, Sagar	Mechanistic Insights into Antioxidant Pathway Alteration by Microcystin-LR and the Protective Role of Coenzyme Q10
28	Mr. Mohd. Sanawar Khan	Lactational exposure effect of brexpiprazole on the body weight of albino mice
29	Ms. Archana Rajak DHSGV, Sagar	Hibiscus as a natural insecticide against rice weevil: A green alternative to synthetic pesticides

30	Ms. Ameya. R DHSGV, Sagar	From Temperature to Humidity: How Climatic Factors Influence Insect Communities
31	Ms. Pooja Tiwari DHSGV, Sagar	Endemic Earthworm Diversity in Madhya Pradesh: A Study of Distribution in Nauradehi Wildlife Sanctuary
32	Mr. Vineet Kumar DHSGC, Sagar	Molecular Mechanism of Phytochemical-Mediated Gut-Brain Axis Regulation, Depression Treatment, and Neuroprotection: A Comprehensive Review
33	Dr. Seema Singh Rama Devi Bajla Mahila College, Deoghar	Artificial inoculation of *Cordyceps militaris* (medicinal caterpillar mushrooms) to observe its pathogenicity from low altitude area lepidopteran insect *Bombyx mori* (silkworm)
34	Ms. Roshni Rajpoot DHSGV, Sagar	Protective role of Coenzyme Q10 against microcystin-LR-induced oxidative stress in mice
35	Mr. Siddharth Rajput DHSGV, Sagar	MC-LR-Induced Modulation of Unfolded Protein Response-Related Gene Expression in Mice and the Ameliorative Role of Coenzyme Q10

Poster presentations (Acharya Shankar Bhawan): 6th March to 8th March (Day 1 to 3)

Poster Session-I: 6th March (16:20-17:00 pm); Venue: Acharya Shankar Bhawan		
S. No.	Presenter	Title
Biotechnology		
1	Mr. Ashutosh Kumar Singh VIT Bhopal University, Bhopal	Assessing Human Astrovirus Contamination in Wastewater: A droplet digital PCR Based Epidemiological Study
2	Mr. Johnson Gill CSIR – National Botanical Research Institute Lucknow	Green Synthesis of Copper Oxide Nanoparticles Using Beta vulgaris Extract: Characterization and Application in *Alternaria solani*-Induced Early Blight Management
3	Ms. Khushali Agarwal NIIT University, Neemrana	Microarray data analysis of oral squamous cell carcinoma (OSCC) patients
4	Ms. Suhani Nagar DHSGV, Sagar	Gene Therapy and approach in the treatment of Amyotrophic Lateral Sclerosis
5	Mr. Abhishek Pathak DHSGV, Sagar	Fabrication, Characterization and Application of Terpineol-Loaded Zein Nanoparticles for Controlling Fungal Diseases in Potato
6	Mr. Adarsh Tamrakar DHSGV, Sagar	Exploring the Antioxidant and Antibacterial potential of Shatavari (*Asparagus racemosus*) root extract
7	Ms. Gayatri Batham Barkatullah University, Bhopal	DNA BARCODING: A useful tool in species identification to resolving taxonomic conflicts in lotic ecosystem of Madhya Pradesh
8	Ms. Khushi Meena DHSGV, Sagar	Therapeutic Potential of Naringin: Pharmacological Properties and Clinical Prospects
9	Mr. Kuldeep Gauliya DHSGV, Sagar	Pyridoxine Powerhouse: Metabolic Engineering of potato *(Solanum tuberosum L.)* for Enhanced Vitamin B6 Biosynthesis and Stress Resilience via *PDX1.3* and *PDX2* Co-Expression
10	Mr. Manish Kumar Manjhi DHSGV, Sagar	Allyl Sulphide Loaded Lipid Nanoparticles as Targeted Therapeutics Against Breast Cancer Cell Lines
11	Ms. Sanno Ratuparna Ravenshaw University, Cuttack	Detection of microplastics in water samples
12	Mr. Vipin Kumar Gound DHSGV, Sagar	Formulation and characterization of Eugenol loaded solid lipid nanoparticles and evaluate their antimicrobial activity against pathogenic fungi and bacteria

13	Ms. Supriya Dwivedi DHSGV, Sagar	Applications of Next Generation Sequencing in Metagenomic Research
14	Ms. Shivangi Ahirwar DHSGV, Sagar	Bioprospection of fungal secondary metabolites from fungi with a focus on therapeutic application
15	Ms. Raksha Devi Lodhi DHSGV, Sagar	Assessment of antimicrobial and anti-cancerous activity of bioactive secondary metabolites of fungi *Paramyrothecium* spp.
16	Mr. Neetesh Mandal DHSGV, Sagar	Exploring the Antioxidant potential and Pancreatic Lipase-Targeted Therapeutic role of Diosgenin from *Dioscorea bulbifera*
17	Mr. Pravanjan Dash DHSGV, Sagar	Preparation, expression and construct of a Mycobacterium tuberculosis gene [RV2563] and studying its over expression profile.
Poster Session-II: 7th March (12:00-12:30 pm); Venue: Acharya Shankar Bhawan		
Botany		
18	Ms. Bharti Kaushik Multanimal Modi College, Modinagar	Nitro-oxidate stress: bioaccumulation-based toxicity of Indium (In) on moth bean [*Vigna aconitifolia* (Jacq.) Marechal]
19	Mr. Abhinav SR DHSGV, Sagar	Feasible Bioremediation Approaches to Mitigate Polluting Substances in Sagar District of Madhya Pradesh (MP) for Sustainable Environment
20	Ms. Jyoti Kumari DHSGV, Sagar	Effect of air pollution on pollination ecology
21	Ms. Monalisa Mahato DHSGV, Sagar	Intraspecific floral variations in plant-pollinator interactions
22	Ms. Sheetal Multanimal Modi College, Modinagar	Cadmium toxicity and management by gasotransmitters, Nitric oxide (NO) and Hydrogen sulfide (H2S) imparting cadmium stress tolerance in Moth bean [*Vigna aconitifolia* (Jacq) Marechal]
23	Mr. Kartikey Mishra Vikram University, Ujjain	Artificial Leaf Technology: A Biomimetic Approach for Sustainable Energy Conversion
24	Ms. Binny Kumari Jagjiwan College, Ara,	Different methods used in weed management

25	Mr. Rakesh Pandey DDU Gorakhpur University, Gorakhpur	Fermented Food Nutraceuticals for Health Promotion and Food Security
26	Mr. Vivek Pandey DDU Gorakhpur University, Gorakhpur	Antibacterial activity of some medicinal plants of North-Eastern Terai Region of Uttar Pradesh
27	Mr. Kishan Kumar Prajapati DDU Gorakhpur University, Gorakhpur	Exploring the Phytopharmaceutical Potential of Underutilized Plant *Dioscorea alata* L. from the Forests of North-Eastern Terai Region of Uttar Pradesh
Microbiology		
28	Ms. Shweta Tiwari DHSGV, Sagar	Mechanistic insight into Glycerol induced Fluorescence enhancement of Catharanthus roseus Carbon dot and their specific interaction with Dead Yeast Cells
29	Mr. Brajesh Kachhi DHSGV, Sagar	Advancements in Microbial Enzyme Technology for Soil Pollutant Removal: A Critical Review
30	Ms. Hemlata Kachhi DHSGV, Sagar	Formulation and characterization of Eugenol loaded solid lipid nanoparticles and evaluate their antimicrobial activity against pathogenic fungi and bacteria
31	Ms. Hemlata Kachhi DHSGV, Sagar	Extraction and Evaluation of Mycological Dyes for Textile Industry and their Antifungal Activities.
32	Ms. Bipasha Priyadarshini Ravenshaw University, Cuttack	Bioremediation of heavy metal contaminated waste water through integrated microbial- chemical treatment
Zoology		
33	Mr. Anand Prakash Bhagat Lalit Narayan Mithila University, Darbhanga	Genistein induced Alteration of Enzymic Antioxidantsand Cytotoxicity Induction in cultured breast cancer cell line
34	Ms. Anjali Tiwari DHSGV, Sagar	To make people aware about “Cancer”
Poster Session-III: 7th March (16:30-17:30 pm); Venue: Acharya Shankar Bhawan		
35	Ms. Divya Pandey DHSGV, Sagar	Unraveling the T Cell Enigma: Pathophysiological Changes in Cervical Cancer and Emerging Therapeutic Strategies
36	Ms. Garima Stephen DHSGV, Sagar	Bioremediation of Microplastics in Soil: A Metagenomic and Culturomics Approach

37	Ms. Janhiphula Kanhar Kalinga institute of Social Sciences, Bhubaneswar	Impact of Circadian Rhythm on Silk Fiber Production in Bagworms: A Study of Pendent Cocoon Spinning Behavior and FESEM Characterization
38	Ms. Kainat Usmani DHSGV, Sagar	Metabolomic Profiling of Eugenol-Loaded Chitosan Nanoparticles in Allergic Airway Inflammation: Targeting NF-Kb, MAPK and HDAC Pathways Through In Vivo and In Silico Investigations
39	Kriti Rastogi DHSGV, Sagar	Addressing Socio-Economic Disparities in HPV-Driven Cervical Cancer: Insights from GLOBOCAN Data and Strategies for Global Prevention
40	Mr. Mantu Meher Kalinga institute of Social Sciences, Bhubaneswar	Examining Daily Fluctuations in Cognitive Abilities: A Study of Rural vs. Urban Populations
41	Mr. Pawan Kumar Chaudhari PG College, Ghazipur	Acute toxicity of an organophosphorus pesticide, chlorpyrifos and its effect on the behavior of a freshwater fish *Channa punctatus*
42	Mr. Praddum Kumar Namdey DHSGV, Sagar	Earthworm Metabolomics and Soil Health: A Meta-analytical Review of Environmental Stress Impacts
43	Ms. Prakasini Naik Kalinga institute of Social Sciences, Bhubaneswar	Addressing Menstrual Hygiene and Cultural Taboos Among University-Going Tribal Girls in Koraput District: A Call for Comprehensive Education and Research
44	Mr. Rakesh Kumar Singh SMM Town PG College, Ballia	Effects of arsenic on the behaviour of freshwater stinging catfish *Heteropneustes fossilis* (Bloch, 1794)
45	Mr. Sambid Sunamajhi DHSGV, Sagar	Chronotype among Scheduled Tribes: Differences between urban and rural populations
46	Ms. Ankita Das Banaras Hindu University, Varanasi	Impact of Mucuna pruriens seed extract on lifespan, locomotion, mating behavior, and metabolic profiles across different age cohorts of the wild-type and Parkinsonian model of *Drosophila melanogaster*
47	Ms. Awani Thakur DHSGV, Sagar	Ecological Niche Modeling of Bird Species in Tropical Deciduous Forests: Implications for Conservation and Management
48	Ms. Divya Kumari DHSGV, Sagar	Foraging Behavior of Birds in a Tropical Deciduous Ecosystem: A Study of Resource Utilization and Predator Avoidance

49	Ms. Mrinal Nagwanshi DHSGV, Sagar	The Impact of Lifestyle Factors on Menstrual Cycle Dysregulation in Adolescent Girls and Young Women
50	Ms. Muskan Rajak DHSGV, Sagar	Anatoxin-a: A Neurotoxic Cyanotoxin Disrupting Antioxidant Defense and Inducing Oxidative Stress
51	Ms. Priyanka Manothiya DHSGV, Sagar	Microbiome dysbiosis as a driver of liver disease and hepatic encephalopathy
Poster Session-IV: 8th March (11:00-11:30 pm); Venue: Acharya Shankar Bhawan		
52	Ms. Shataroopa Shaktimayee DHSGV, Sagar	Assessment of Polycyclic Aromatic Hydrocarbons (PAHs): A step towards river monitoring and conservation
53	Mr. Praddum Kumar Namdev DHSGV, Sagar	Earthworm Metabolomics and Soil Health: A Meta-analytical Review of Environmental Stress Impacts
54	Mr. Abhilash Chaudhary DHSGV, Sagar	Endocrine Disruptors and Fish Reproductive Health: A Review of Hormonal Disruptions, Ecological Consequences, and Regulatory Challenges
55	Ms. Aditi Saraf DHSGV, Sagar	Glycyrrhizin as a Natural Shield Against UVB-Induced damage
56	Mr. Avnish Kumar DHSGV, Sagar	Analyzing the Symbiotic Interaction between Insects and Microorganisms in the Degradation of Pesticides and their Prospective Application in the Detoxification of Agricultural Ecosystems: A Systematic Review
57	Mr. Satish Satyam Barik DHSGV, Sagar	MC-LR-induced alterations in the unfolded protein response pathway in mice and the ameliorative effects of coenzyme Q10
58	Ms. Anjali Singh DDU Gorakhpur University, Gorakhpur	Effect of Different Combinations of Feed Materials on the Population Dynamics of Earthworms
59	Ms. Nishat Fatima DDU Gorakhpur University, Gorakhpur	Soil Detoxification Through Earthworms: Heavy Metal Accumulation Potential
60	Mr. Vilas Patil IGNOU, New Delhi	Toxicants and Their Effects on Human Body
61	Ms. Khushboo Gupta DHSGV, Sagar	Neurotoxic Effects of Pentylenetetrazole in Zebra Fish: Mechanisms, Implications, and Potential Therapeutic Interventions

62	Mr. Pravin Kumar Bind Banaras Hindu University, Varanasi	Population Genetics of *Drosophila ananassae*: Latitudinal trends in morphometry, triglyceride content and microsatellite variants
63	Ms. Shweta Upadhyay Banaras Hindu University, Varanasi	The effect of multigenerational exposure of sodium arsenite on behavioral traits and biochemical parameters in isofemale lines of *Drosophila ananassae*
64	Ms. Madhuri Singh DHSGV, Sagar	Unveiling Vertebrate Development: Zebrafish as a Key Model Organism
65	Mr. Syed Hashim DHSGV, Sagar	The Science of pheromones in Insect Pest control: Mechanism and Innovations
66	Mr. Syed Hashim DHSGV, Sagar	Ant Pheromones as biocontrol Agents: Exploring their Mechanisms and cross- species interactions
67	Ms. Keerti Central Zone Regional Centre Zoological Survey of India, Jabalpur	Collection, Preservation and Identification of Family Reduviidae of Hemiptera in Madhya Pradesh

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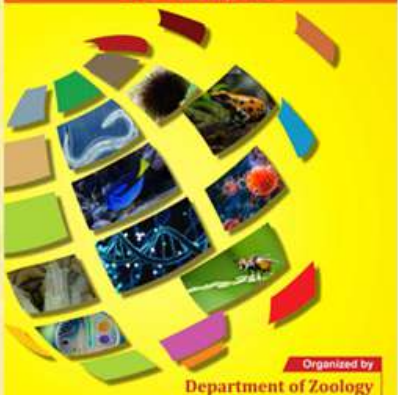
NAAC A+

INTERNATIONAL CONFERENCE ON ADVANCES IN SYSTEMS BIOLOGY

ICASB-2025

6-8 March, 2025



Organized by
Department of Zoology
School of Biological Sciences
Dr. Harisingh Gour Vishwavidyalaya
(A Central University)
Sagar-470 001 (M.P.) India
https://www.icasb.dhsgsu.edu.in

About the University

Doctor Harisingh Gour Vishwavidyalaya Sagar (A Central University), formerly University of Saugor, was established on 18th July 1946 by Dr. Sir Hari Singh Gour (Nov. 26, 1870 – Dec. 25, 1949) by his lifetime savings. This 18th University of India and the oldest and the biggest University of Madhya Pradesh has perhaps the singular distinction of being founded by the munificence of a single person's hard-earned money of about two crores of rupees. Apart from being a great jurist and legal luminary par excellence, he was a great Patriot, Philanthropist, Educationist and Social Reformer.

Dr. Hari Singh Gour was the first Vice-Chancellor of University of Delhi (1922 to 1926) and first Dean (1924) of The Faculty of Law in the University of Delhi. The University is situated 5 Km east of Sagar city and its campus covers an area of 1312.89 acres over Pathariya hills connected to the Vindhya Range, surrounded by lush green forest (about 100 acres) within its campus and has effectively contributed to the maintenance and preservation of ecosystem and its biodiversity. It is one of the finest picturesque campuses in India.

It has 42 University teaching departments, 11 schools and 19 affiliated colleges covering various districts of M. P. There are 4 hostels for boys, two hostels for girls and Residential facilities are available for teachers and officials of the University. The Banking, Postal, Health & Sanitation, shopping complex, Indian Coffee House (ICH), and Cafeteria services are available at the University premises. The Jawaharlal Nehru Library of the University has more than 4,00,000 books. Academic Departments, Hostels and Libraries are well equipped with Wi-Fi through National Knowledge Network (NKN) and e-resources are accessible through Wi-Fi. The NAAC has awarded 'A+' Grade re-accreditation to this University in its fourth cycle. This University got Central University status w.e.f. 15th Jan 2009.

About the Conference

Dr Harisingh Gour Vishwavidyalaya (A Central University) is delighted to welcome you to the International Conference on Systems Biology (ICASB-25) at Dr Harisingh Gour Central University, Sagar, Madhya Pradesh, India from on 6 to 8th March 2025. This event will bring leading scientists, academicians, industry professionals, speakers, and experts on one platform. The informative discussions will highlight trending issues, solutions, achievements, and future strategies.

The international conference aim to present techniques, skills, and the latest information in various fields like science, technology, life sciences, and environmental science. It helps participants to explore speaking opportunities, present their unique ideas and create significant connections. You can participate in the groundbreaking discussion, which welcomes active participation and benefits the field and humankind. To, enhance participants personal and professional journey by attending the upcoming event at ICASB – 25, we are committed to showcasing the latest innovations, trends, and issues across a range of disciplines, making it an exceptional interdisciplinary platform for attendees. We invite all those interested in learning about the most recent advancements.

Thrust Areas

But not limited to:

- Biosystematics
- Integrative Biology
- Cell Biology & Genetics
- Genomics & Proteomics
- Structural and Developmental Biology
- Infectious & Metabolic diseases
- Cancer Biology
- Environmental Toxicology & Enzymology
- Application of Nanotechnology in Agriculture & Medicine
- Synthetic Biology & Big Data Handling

Who can participate

- ✓Under Graduates
- ✓Post Graduates
- ✓Ph.D. Scholars and Post Doctoral Fellows
- ✓Faculties
- ✓International Participants

Registration Fees*

(Registration fees includes conference kit, high tea and lunch)

UG Students	Rs. 1500/-
PG Students	Rs. 1500/-
Ph.D. Scholars and Post-Doctoral Fellows	Rs. 2000/-
Faculties / Academia	Rs. 2500/-
Overseas Participant	USD 100

*Registration fees is non-refundable. Only limited accommodation facility is available at the university guest house. Participants will be intimated regarding registration by 01/03/2025.

How to Apply

Register through website:
https://www.icasb.dhsgsu.edu.in

Via QR Code:
(Please Scan the QR code to register for the conference)

E-mail ID for Abstract Submission
icasb2025@gmail.com

Last Date to Apply: 28 February. 2025

About Sagar City

Sagar (M.P.) is a divisional head quarter and well connected by rail and all-season roads. The weather in Sagar in March is pleasantly warm with a gentle breeze, with average highs of 30 °C and lows of 22 °C. Sagar railway station is mentioned as Saugor (SGO) in Railway time table. Saugor station is located on Bina-Katni section of West Central Railway. It is directly connected by train to Bina Jn (75 Km), Bhopal (215 Km), Jabalpur (279 Km), Lalitpur (110 Km) and Jhansi (200 Km). Nearest airport- Bhopal (200 Km), Khajuraho (215 Km), and Jabalpur (171 Km).

2nd Circular

INTERNATIONAL CONFERENCE on
ADVANCES IN SYSTEMS BIOLOGY

6th – 8th March 2025

DEPARTMENT OF ZOOLOGY
School of Biological Sciences

DR. HARISINGH GOUR VISHWAVIDYALAYA
(A Central University) Sagar – 470003, Madhya Pradesh, India

NAAC GRADE A+ Accredited University

Department of BioTechnology, Government of India

About the Conference

The international conference aims to present techniques, skills, and the latest information in various fields like physical sciences, technology, life sciences, and environmental science. It will help participants to explore speaking opportunities, present their unique ideas and create significant connections. To enhance participants' personal and professional journey by attending the upcoming event at ICASB – 25, we are committed to showcase the latest innovations, trends and issues across a range of disciplines, making it an exceptional interdisciplinary platform for attendees. We invite all those interested in learning about the most recent advancements.

Objectives

- Disseminate the latest research findings and methodological advances in systems biology.
- Foster collaboration and knowledge exchange among researchers from diverse backgrounds.
- Provide a platform for academia to present their work and interact with leading scientists.
- Promote the translation of systems biology research into practical applications in life sciences.

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Programme Highlights

- Keynote lectures
- Parallel sessions during oral presentations
- Poster presentation session
- Networking events
- Workshop on *"Essential tools and techniques in molecular biology"*

Thrust Areas

Biosystematics, Integrative biology, Cell biology and Genetics, Genomics and Proteomics, Structural and Developmental Biology, Infectious and Metabolic diseases, Cancer Biology, Environmental Toxicology and Enzymology, Application of Nanotechnology in Agriculture and Medicine, Synthetic Biology and Big Data Handling.

Workshop

DBT, Govt. of India has sponsored Two day workshop (7th and 8th March 2025) under DBT-BUILDER scheme on
"Essential tools and techniques in Molecular Biology".
Limited to 30 seats. Additional fee = Rs. 500
Hurry !!

Important Dates

Last date of submission of Abstract and Registration:
20th February 2025
Last date of submission of registration fee:
20th February 2025
Workshop dates:
7th and 8th March, 2025

Registration Fees

UG and PG Students:
Rs. 1500/-
Ph.D. Scholars and Postdocs:
Rs. 2000/-
Faculty/ Academia:
Rs. 2500/-
Overseas participants:
USD 100/-
If interested in workshop:
+ Rs. 500/-

Apply Now

Register through website:
https://www.icasb.dhsgsu.edu.in

Awards*

- Lifetime Achievement Award
- Best Oral Presentation Award
- Best Poster Presentation Award
- Senior Scientist Award (> 45 years)
- Young Scientist Award (< 35 years)
- Women Scientist Award

*Interested applicants may please choose at the time of registration

Contact Persons

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INTERNATIONAL CONFERENCE ON ADVANCES IN SYSTEMS BIOLOGY

ABSTRACT BOOK

6th - 8th March, 2025

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6th - 8th March, 2025
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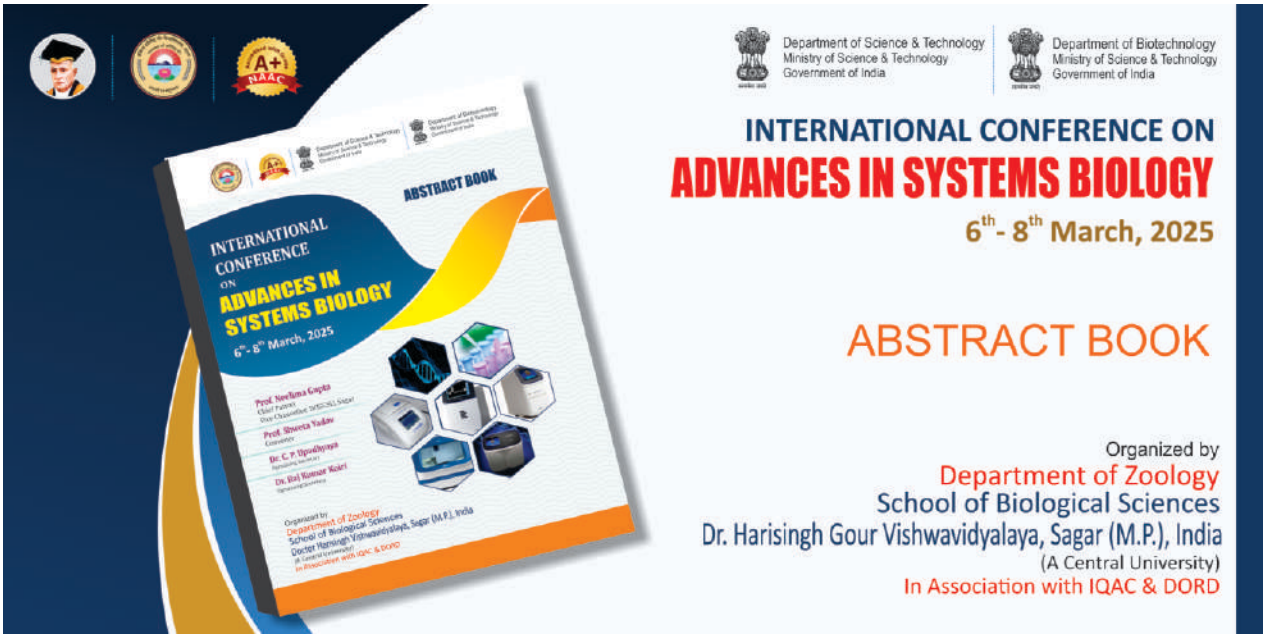
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Government of India

Invitation

INTERNATIONAL CONFERENCE

ADVANCES IN SYSTEMS BIOLOGY

Inaugural Ceremony, 6th March, 2025

To,

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Organized by

Department of Zoology

School of Biological Sciences

Doctor Harisingh Gour Vishawavidyalaya, Sagar (M.P.)

(A Central University)

In Association with IQAC & DORD

Department of Science & Technology
Ministry of Science & Technology
Government of India

Department of Biotechnology
Ministry of Science & Technology
Government of India

Invitation

Department of Zoology

Doctor Harisingh Gour Vishawavidyalaya, Sagar (M.P.)

(A Central University)

In Association with IQAC & DORD

Cordially invites you to attend Inaugural Ceremony of International Conference on

ADVANCES IN SYSTEMS BIOLOGY

Patron

Prof. Neelima Gupta

Hon'ble Vice Chancellor
Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P.

Chief Guest

Prof A. P. Dash

Member, CSIR Society
Ex-Vice Chancellor, Central University of Tamilnadu

Guests of Honour

Prof. Ashok Kumar
Ex. Vice Chancellor
C.S.J.M. University, Kanpur

Dr. Gopal Krishna
Former Director-ICAR -CIFE
Mumbai (MH)

Prof. B. D. Joshi
Retd. Prof. Gurukul Kangri
Haridwar

Dr. D. K. Sharma
VC, BRA University
Ambedkar Nagar (M.P)

Prof. Mohd. Arif
VC, M.A.J.U.
Rampur (U.P.)

Your gracious presence is highly solicited.

06 MARCH, 2025 | 10.00 AM | Abhimanch Sabhagaar, University Campus

Prof. Shweta Yadav, Convener, ICASB 2025
Prof. & Head, Department of Zoology

Department of Science & Technology
Ministry of Science & Technology
Government of India

Department of Biotechnology
Ministry of Science & Technology
Government of India

INTERNATIONAL CONFERENCE ON

ADVANCES IN SYSTEMS BIOLOGY

6th - 8th March, 2025

Organized by

Department of Zoology
Doctor Harisingh Gour Vishwavidyalaya, Sagar (M.P.), India
(A Central University)

In Association with IQAC & DORD

Certificate of Participation

This is to certify that Ms./Mr./Dr.....

participated/presented an Oral/Poster presentation titled.....

.....

at the **"International Conference on Advances in Systems Biology"** organized by the Department of Zoology, School of Biological Sciences, Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar, M.P.

Dr. C. P. Upadhyaya
Ogranizing Secretary

Prof. Shweta Yadav
Convener

Department of Science & Technology
Ministry of Science & Technology
Government of India

Department of Biotechnology
Ministry of Science & Technology
Government of India

INTERNATIONAL CONFERENCE ON

ADVANCES IN SYSTEMS BIOLOGY

6th - 8th March, 2025

Organized by

Department of Zoology
Doctor Harisingh Gour Vishwavidyalaya, Sagar (M.P.), India
(A Central University)

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Certificate of Appreciation

This is to certify that Ms./Mr./Dr. .....

has served in the organizing committee of the **"International Conference on Advances in Systems Biology"** organized by the Department of Zoology, School of Biological Sciences, Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar (M.P.), India.

Dr. C. P. Upadhyaya
Ogranizing Secretary

Prof. Shweta Yadav
Convener

Media Coverage

सागर सिटी

भारत ने सबसे पहले कोविड वैक्सीन बनाकर पूरी दुनिया में अपनी शोध क्षमता और मानवता का सन्देश दिया है

आवश्यकता आधारित अनुसंधान वर्तमान समय की मांगः कुलपति

हरिभूमि

गर-चम्बल भूमि फ्रंट पेज

भोपाल, गुरुवार 7 मार्च 2025

सागर | खुरई | बांदरी | नरयाओली | बीना | बंडा | राहतगढ़

आवश्यकता आधारित अनुसंधान वर्तमान समय की मांग

भारत ने सबसे पहले कोविड वैक्सीन बनाकर पूरी दुनिया में अपनी शोध क्षमता और मानवता का संदेश दिया है: कुलपति प्रो. नीलिमा

अंतर्राष्ट्रीय सम्मेलन

विवि में त्रिदिवसीय अंतर्राष्ट्रीय सम्मेलन में समाधान निकालने पर होगी चर्चा

सभी परिवर्तनों और समस्याओं का मुख्य कारण जलवायु परिवर्तन

नवभारत न्यूज

सागर 6 मार्च. डॉक्टर हरीसिंह गौर विश्वविद्यालय के स्कूल ऑफ बायोलॉजिकल साइंसेज के तत्वावधान में एडवांसेज इन सिस्टम बायोलॉजी विषय पर तीन दिवसीय अंतर्राष्ट्रीय सम्मेलन के उद्घाटन सत्र का आयोजन अभिमंच सभागार में आयोजित किया गया.

कार्यक्रम की अध्यक्षता कुलपति प्रो. नीलिमा गुप्ता ने की.

डीन प्रो. वर्षा शर्मा ने सम्मेलन के विभिन्न घटकों का परिचय दिया. प्राणी शास्त्र की विभागाध्यक्ष प्रो. श्वेता यादव ने स्वागत वक्तव्य दिया. प्रो. गुप्ता ने कहा कि यह अंतर्राष्ट्रीय सम्मेलन इस मायने में विशेष है क्योंकि इसमें सम्पूर्ण जीव विज्ञान के विविध क्षेत्रों के विशेषज्ञ सहभागिता कर रहे हैं. आज के समय में विज्ञान का क्षेत्र अंतरानुशासनिक, पार-अनुशासनिक और बहु अनुशासनिक बन चुका है. पूरे देश का अकादमिक परिदृश्य इसी तरह के अध्ययन-अध्यापन प्रणाली पर कार्य कर रहा है. आज मानव के सामने जैव विविधता का क्षरण, पर्यावरण असंतुलन एवं प्रदूषण जैसे संकट हैं जिनका भारत ही नहीं पूरी दुनिया सामना कर रहा है. हमें ऐसे सम्मेलन के माध्यम से इस तरह के संकटों के समाधान के भी रास्ते सुझाने हैं तभी इस तरह के विमर्श और चर्चाएँ प्रासंगिक होंगी. पद्मश्री प्रो. एपी दास ने कहा कि पहले के जमाने में विज्ञान के कुछ ही क्षेत्र थे लेकिन आज इसका दायरा बहुत ही व्यापक हो गया है. उन्होंने सभी परिवर्तनों और समस्याओं का कारण जलवायु परिवर्तन को बताते हुए कहा कि यह ऐसा कारण है जो प्रकृति की सभी चीजों को प्रभावित करता है. चाहे वह मनुष्य हो, चाहे अन्य जीव जंतु हों या वनस्पतियाँ.

कोविड वैक्सीन बनाकर पूरी दुनिया में अपनी शोध क्षमता और मानवता का सन्देश दिया है : कुलपति

देशबन्धु

विज्ञान की प्रासंगिकता और शोध की आवश्यकता पर हुआ मंथन

सागर, देशबन्धु। डॉ. हरीसिंह गौर विश्वविद्यालय के स्कूल ऑफ बायोलॉजिकल साइंसेज द्वारा एडवांसेज इन सिस्टम्स बायोलॉजी विषय पर तीन दिवसीय अंतर्राष्ट्रीय सम्मेलन का आयोजन किया गया। उद्घाटन सत्र में कुलपति प्रो. नीलिमा गुप्ता ने वैज्ञानिक अनुसंधान की महत्ता पर प्रकाश डालते हुये कहा कि आज के समय में आवश्यकता आधारित अनुसंधान अनिवार्य हो गया है। उन्होंने भारत को कोविड वैक्सीन निर्माण क्षमता का उदाहरण देते हुये कहा कि भारत ने अपनी शोध क्षमता और मानवीय मूल्यों से पूरी दुनिया को दिशा दिखाई है। सम्मेलन के मुख्य अतिथि पद्मश्री प्रो. एपी दास ने विज्ञान को संपूर्ण मानव जाति के कल्याण का माध्यम बताया। उन्होंने जलवायु परिवर्तन, जैव विविधता क्षरण और ग्लोबल वार्मिंग जैसी समस्याओं को चिन्हित करते हुये विज्ञान के माध्यम से इनके समाधान की आवश्यकता पर बल दिया। विशिष्ट अतिथि प्रो. डीके सामरे ने भारतीय ज्ञान परंपरा में विज्ञान की गहरी जड़ों को रेखांकित किया और प्राचीन ऋषियों में वर्णित वैज्ञानिक सिद्धियों पर नये शोध की जरूरत बताई। वहीं प्रो. मोहम्मद आरिफले सिस्टम्स बायोलॉजी की समग्र दृष्टिकोण से देखने की बात कही और शोधार्थियों को विज्ञान लेखन और प्रस्तुतीकरण की बारीकियां सीखने का सुझाव दिया। सम्मेलन में 54 विश्वविद्यालयों एवं संस्थानों के 170 प्रतिभागियों और 56 शहरी प्रतिनिधियों ने भाग लिया। 35 प्रतिभागियों ने मौखिक और 67 ने पोस्टर प्रस्तुति दी। सत्र का संचालन डॉ. वंदना विनायकर ने किया और आभार डॉ. वर्षा शर्मा ने व्यक्त किया। इस अवसर पर विज्ञान संकाय के विद्यार्थी, शोधार्थी, शिक्षक एवं शहरी विशेषज्ञ उपस्थित रहे।

आवश्यकता आधारित अनुसंधान वर्तमान समय की मांग–कुलपति प्रो. नीलिमा गुप्ता

उच्च शिक्षा | एडवांसेज इन सिस्टम बायोलॉजी विषय पर तीन दिवसीय अंतरराष्ट्रीय सम्मेलन

आवश्यकता आधारित अनुसंधान जरूरी : कुलपति

युवाओं को सूचना और ज्ञान में धर्क समझना होगा

सिस्टम्स बायोलॉजी में प्रगति पर अंतर्राष्ट्रीय सम्मेलन संपन्न

आचरण संवाददाता

एडवांसेज इन सिस्टम बायोलॉजी विषय पर अंतरराष्ट्रीय सम्मेलन शुरू

भारत ने सबसे पहले कोविड वैक्सीन बनाकर पूरी दुनिया में अपनी शोध क्षमता संदेश दिया

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