

A WINTER COLLOQUIUM ON BRIDGING GENERATIONS: GLIMMERING LIFE SCIENCE IN THE YARDS OF ZOOLOGY DECORATING SILENCE WITH WHISPERING WINTER

A Winter Colloquium
on
**Bridging Generations:
Glimmering Life Science**
In the yards of Zoology
Decorating silence with Whispering winter
5-7, January, 2025

Focus Areas
“Antioxidants, Disease Prevention, Wellness and healthy living, Immune profiling and Diagnostics, Economic Impact of Disease with respect to welfare of human being, Techniques in the Molecular Biology for Life Sciences, Cell Signalling Pathways, Diabetes and molecular Interventions of Preventions, Antibody Mediated ELISA and Immunofluorescence Tagging, T-cell mediated therapeutic Profiling in Cancer Cells”

Chief Patron
Col. (Prof.) Neelima Gupta
Hon'ble Vice Chancellor
Dr. Harisingh Gour Vishwavidyalaya Sagar (M.P.)

Patron
Prof. (Dr.) Vensha Sharma
Dean, SBS

Convener
Prof. (Dr.) Shweta Yadav
HoD, Zoology

Course Coordinator
Dr. Malabika Sikdar

Co-course Coordinator
Dr. Deepali Jat

Registration Fee Rs. 500/-*
REGISTER NOW
Deadline : 15, December, 2024
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5-7 January 2025

Department of Zoology

Dr. Harisingh Gour, Vishwavidyalaya, Sagar

The **Winter Colloquium on Bridging Generations: Glimmering Life Science in the Yards of Zoology, Decorating Silence with Whispering Winter** was a distinguished academic gathering of experts, researchers, and enthusiasts dedicated to the advancement of zoological and life sciences. This conference provided a vital platform for intergenerational knowledge exchange, stimulating discourse on pioneering research and probing the complex interconnections within the life sciences.

The colloquium showcased a series of compelling keynote addresses, panel discussions, and interactive sessions led by both established luminaries and emerging scholars. Thematically diverse, presentations spanned evolutionary biology and conservation strategies, extending to the influence of ecological patterns on seasonal adaptation. A central tenet of the colloquium was the critical role of interdisciplinary collaboration in confronting the multifaceted challenges facing contemporary zoology, all while acknowledging the lyrical impact of winter on the natural world.

Through an engaging program of presentations and networking opportunities, the conference successfully fostered a bridge between generational knowledge, catalyzing fresh perspectives in the life sciences. This gathering not only showcased recent breakthroughs but also ignited meaningful dialogues poised to shape the trajectory of future research and conservation initiatives.

DAY 1: 05 JANUARY 2025

Inaugural Session: The Inaugural Session of the **Winter Colloquium** marked the formal commencement of this esteemed academic gathering. The session was graced by

distinguished guests, keynote speakers, and an enthusiastic audience comprising scholars, researchers, and students from diverse backgrounds in zoology and life sciences.

The event began with a warm welcome address from Ankita Dwivedi and Sneha Bibyan, Research Scholar from Department of Zoology, emphasizing the significance of intergenerational knowledge exchange in the field of life sciences.

During the inaugural session distinguished guests were invited to the dais:

- Chief Patron and Guest, **Prof. Neelima Gupta**, Hon'ble Vice Chancellor Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh.
- Guest of Honor, **Prof. DP Gupta**, Professor, Department of Zoology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh.
- Special Guest of the event, **Prof. Subodh Kumar Jain**, Senior Professor, Department of Zoology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh.
- **Prof. Versha Sharma**, Dean School of Biological Sciences, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh and Patron of the event.
- **Prof. Shweta Yadav**, Head of the Department, Department of Zoology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh and Convenor of the event.
- **Prof. UK Patil**, Head of the Department, Department of Pharmacy, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh



The traditional Indian rituals of lighting the lamp and garlanding were performed invoking the blessings of goddess Saraswati and paying tribute to Dr. Harisingh Gour, the founder of the university.



A preview of the program convened by Ankita Dwivedi and Sneha Bibyan

The esteemed dignitaries were welcomed with the plant saplings. **Prof. Shweta Yadav**, Head of the Department, Department of Zoology, welcomed Chief Patron and Guest, **Prof. Neelima Gupta**, Hon'ble Vice Chancellor Dr. Harisingh Gour Vishwavidyalaya, Sagar. **Prof. Versha Sharma**, Dean School of Biological Sciences welcomed Guest of Honor, **Prof. DP Gupta**, Professor, Department of Zoology. Course Coordinator Dr. **Malabika Sikdar**, Associate Professor, Department of zoology welcomed Special Guest of the event, **Prof. Subodh Kumar**

Jain, Senior Professor, Department of Zoology. **Dr. Rajkumar Koiri**, Assistant Professor, Department of Zoology welcomed **Prof. UK Patil**, Head of the Department, Department of Pharmacy. **Dr. Payal Mahobiya**, Associate Professor, Department of Zoology welcomed **Prof. Versha Sharma**, Dean School of Biological Sciences. Course Coordinator Dr. Deepali Jat, Assistant Professor, welcomed **Prof. Shweta Yadav**, Head of the Department, Department of Zoology.



The introduction about the conference was given by Dr. Deepali Jat, Assistant Professor, Department of Zoology, in which she gave the highlights of the key events going to be held in the conference.



The conference began with a welcome address by Professor Shweta Yadav, Convenor of the event. Professor Yadav articulated the conference's vision and underscored its importance. Following the welcome, Professor Versha Sharma introduced the conference program.



Proceeding forward, Prof. DP Gupta, Former Professor, shared his experiences and enlightened the event with his knowledge. Prof Subodh Kumar Jain delivered the inaugural address and officially marked the beginning of the winter conference.



Prof. UK Patil, Head of the Department of Pharmacy, marked the importance of the conference and enlightened the event by introducing functional foods.

The event's Chief Patron, Hon'ble Vice-Chancellor Professor Neelima Gupta, delivered a powerful address, urging zoologists to adopt interdisciplinary approaches to better understand the complex interplay between organisms and their environments. She highlighted the critical need for environmental conservation, drawing attention to the devastating effects of climate change and global warming in the polar regions. Professor Gupta's address served as a call to action, inspiring attendees to champion nature conservation.



As the session drew to a close, dignitaries were honored with shawls, shrifal, and mementos as a token of deep gratitude for their presence and significant contributions. Their participation enriched the event and provided inspiration for the gathering.



The inaugural session concluded with a vote of thanks by Dr. Malabika Sikdar, who appreciated the contributions of speakers, organizers, and participants. The event set a dynamic and thought-provoking tone for the sessions to follow, reinforcing the colloquium's mission of bridging generations through the exploration of life sciences.



A short tea break provided the attendees with an opportunity to refresh and network before the technical session.

Technical session:

Session 1: the session was chaired by Prof. SK Jain and the rapporteur of the session was Dr. M Sikdar. The keynote speaker was Prof. UK Patil, Department of Pharmacy, who talked about the role of functional food in wellness and healthy living. He mentioned that functional foods play a significant role in promoting wellness and healthy living by providing essential nutrients, vitamins, and minerals that support overall health and well-being and benefits of functional foods include the prevention of chronic diseases, improved gut health, boosted immune system, and improved mental health.



Session 2: the session was chaired by Prof. Versha Sharma and the rapporteur of the session was Ms. Ankita Dwivedi. The keynote speaker was Prof. A. Kar, Professor, Medi-Caps University, Indore, who talked about Diabetes Pathogenesis. He mentioned different types of diabetes and elaborated on the mechanisms and pathways for monitoring various types of diabetes.

The program was halted for the poster presentation competition and a short lunch break.



Session 3: the session was chaired by Prof. SK Jain and the rapporteur of the session was Mr. Raghvendra Niranjana. The keynote speaker was Dr. Kiran Maheshwari, MBBS (Gynaecologist), DHSGSU. She talked about health-related issues and their prevention in the reproductive age group including Sexually Transmitted Infections (STIs), Unintended Pregnancies, Reproductive Tract Infections (RTIs), Polycystic Ovary Syndrome (PCOS), and Infertility. She highlighted some key recommendations such as access to Reproductive Healthcare, Comprehensive Sex Education, Promote Healthy Behaviors, and supporting Research and Development.



Session 4: the session was chaired by Dr. Deepali Jat and the rapporteur of the session was Mr. Raghuveer Gupta. The keynote speaker was Dr. Jitendra Kumar, BARC, Mumbai. He talked about the perspective of biosensors for the detection of pesticides. He discussed the types of biosensors including Enzyme-based biosensors, Immunoassay-based biosensors, DNA-based biosensors, and Cell-based biosensors and their advantages. He elaborated on the challenges and limitations, future perspectives and real-world applications of bio-sensors.

Day 2: 06th January, 2025

The program information of the day was given by Dr. Deepali Jat. She mentioned the details of the session and the speaker that were going to deliver the lecture on that specific day.

Session 5: the session was chaired by Prof. Versha Sharma and the rapporteur was Dr. Deepali Jat. The keynote speaker of the session was Prof. Manvinder Singh Pahwa, Department of Commerce, DHSGSU. He talked about the calculation of regression curves using ChatGPT. He explained how to give a prompt and demonstrated how to perform the calculations using ChatGPT.



Session 6: the session was chaired by Prof. Versha Sharma and the rapporteur was Dr. Deepali Jat. The keynote speaker was Dr. Bhawna Rewadikar, Department of Commerce,

DHSGSU. She talked about the economic impact of diseases with respect to individual and societal welfare. She gave a comprehensive overview of the individual-Level Economic Impact and Societal-Level Economic Impact. She highlighted the economic burden of diseases such as diabetes, cancer, mental health disorders, and cardiovascular diseases, and also introduced strategies to reduce the Economic Burden of Diseases

A short refreshment and tea break were provided to the participants.

Session 7: The session was chaired by Prof. Shweta Yadav and the rapporteur was Ms. Sneha Bibyan. The keynote speaker was Dr. Poonam Dehariya, Department of Botany, DHSGSU. She presented about the Health Benefits of mushrooms and their role in a balanced diet including nutrient-rich superfoods, boosting the immune system and brain health, and its anti-oxidant properties.

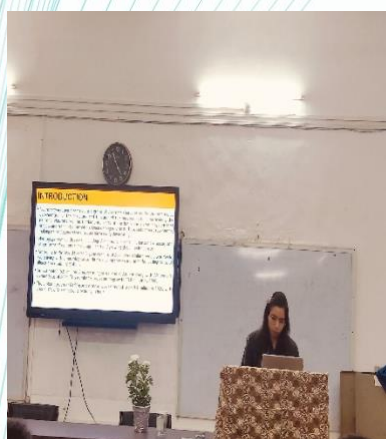
Session 8: The session was chaired by Prof. Shweta Yadav and the rapporteur was Ms. Sneha Bibyan. The keynote speaker was Dr. Sonal Mathur, Department of Botany, DHSGSU. She talked about photosystems I and II, the regulatory mechanism including cyclic and non-cyclic electron flow and chlorophyll and pigment composition, and key factors such as light intensity, water availability, CO₂ and O₂ concentration affecting PS I and II. She also shared the key findings and experiences of her research work.



A vote of thanks for the technical session was given by Dr. Malabika Sikdar.

A short lunch break was arranged for the participants.

The second half of the session was dedicated to the oral presentation in which research scholars of various departments participated and presented their research work.



Day 3: 07th January 2025

The program information of the day was given by Dr. Deepali Jat. She mentioned the details of the session and the speaker that were going to deliver the lecture on that specific day.

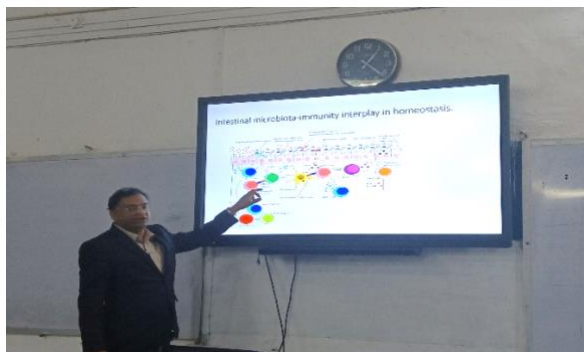
Session 9: The session was chaired by Prof. Versha Sharma and the rapporteur was Dr. Deepali Jat. The keynote speaker was Dr. Satyam Verma, Department of Environmental

Sciences, DHSGSU. He talked about Green House Gas Emission and Public Health Challenges. He mentioned various greenhouse gases playing a pivotal role in climate change. He raised concern about public health challenges and focused on the sector of the population that is more vulnerable to climatic change and also highlighted the mitigation and adaptation strategies.

Session 10: The session was chaired by Prof. Versha Sharma and the rapporteur was Dr. Deepali Jat. The keynote speaker was Dr. Vaishali Yadav, Adina Institute of Pharmaceutical Sciences, Sagar. She gave a talk on Seno-therapeutic compounds such as Dasatinib and Quercetin (D+Q), Navitoclax, Piperlongumine, and UBX0101. She mentioned the potential benefits of seno-therapeutic compounds like Delayed aging, improved health span etc. and the challenges and future directions of these compounds.

A short refreshment and tea break were provided to the participants.

Session 11: The session was chaired by Prof. Shweta Yadav and the rapporteur was Ms. Sneha Bibyan. The keynote speaker was Dr. M. Janaki Ramaiah, K.L University, Guntur, Andhra Pradesh. He talked about glucose metabolism and regulation by glucose transporter and their modulation by microRNA. He explained about various glucose transporter and its regulatory mechanism. He also explains the role of miRNA in modulating the glucose transporter.



Session 12: The session was chaired by Prof. Shweta Yadav and the rapporteur was Ms. Sneha Bibyan. The keynote speaker was Dr. Sumit Rawat (MBBS, MD, Ph.D), Bundelkhand Medical College, Sagar, Madhya Pradesh. He talked about the role of microbiome in immune system maturation, and metabolic health. He mentioned the immune system and gut microbiota and its role in human health. He also introduced how disbalance in microbiome profile can be the leading cause of various diseases.

A short lunch break was arranged for the participants.

The program was concluded with the valedictory and award distribution session. Participants were awarded in the following categories:

- Best Poster Award
- Best Poster Presentation Award
- Best Oral Presentation Award
- Best Research Theme Award
- Young Investigator Award
- Young Scientist Award



The program came to an end with delivering vote of thanks by Dr. Malabika Sikdar who thanked the gathering for sharing the time and knowledge and making this event successful.

The program ended on a patriotic note, as attendees gathered to sing the national anthem, reaffirming their commitment to scientific exploration and international cooperation in pursuit of knowledge.

Awardees Name:

- Best Poster Award: Ms. Pooja Tiwari
- Best Poster Presentation Award: Mr. Raghuveer Gupta
- Best Poster Presentation (First Runner-Up): Ms. Garima Stephen
- Young Scientist Award: Mr. Siddharth Rajput
- Best Research Theme Award: Dr. Kalpana
- Young Investigator Award: Dr. Juli Jain
- Best oral Presentation: Mr. Debabrata Dash

Ms. Ankita Dwivedi

Ms. Sneha Bibyan

- Best Oral Presentation (First Runner-Up): Ms. Surbhi Chourasiya
- Best Oral Presentation (Second Runner-Up): Ms. Kainat Usmani

List of the Participants:

Sr. No.	Name of the Participants
1.	Aamir Khan
2.	Ankita Dwivedi
3.	Anupam Kumar
4.	Ashish Kumar Sahu
5.	Awani Thakur
6.	Debabrata Dash
7.	Deendayal Singh Dangi
8.	Divya Pandey
9.	Dr Juli Jain
10.	Dr Kalpana
11.	Garima Stephen
12.	Kainat Usmani
13.	Neeraj Kapoor
14.	Praddum Kumar Namdev
15.	Raghuveer Kumar Gupta
16.	Raghvendra Niranjana
17.	Ratan Kumar
18.	Roshni Rajpoot
19.	Shruti Jain
20.	Siddhartha Rajpoot
21.	Sneha Bibyan
22.	Surbhi Chourasiya

Recording of the Programme is available on

(https://youtu.be/l9m54wJXVMw?si=X1UAfXf4QbW3Nt_D)