



NAAC
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A Winter Colloquium on **Bridging Generations: Glimmering Life Science**

In the yards of Zoology
Decorating silence with Whispering winter

5-7, January, 2025

“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”

Focus Areas



Chief Patron

Col. (Prof.) Neelima Gupta
Hon'ble Vice Chancellor

Dr. Harisingh Gaur Vishwavidyalaya Sagar (M.P.)



Patron
Prof. (Dr.) Versha Sharma
Dean. SBS



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



Course Coordinator
Dr. Malabika Sikdar



Co-course Coordinator
Dr. Deepali Jat



Organized by
Dept. of Zoology
Dr. Harisingh Gour Vishwavidyalaya
(A Central University)
Sagar 470003 (M.P.), India



Registration Fee Rs. 500/-*

REGISTER NOW

Deadline : 15, December, 2024

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<https://forms.gle/ykGLiDFpbHwQvrD37>



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For more details visit
www.dhsgsu.ac.in



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WINTER COLLOQUIUM ON
“Bridging Generations: Glimmering Life Sciences”

In the yards of Zoology
Decorating Silence with Whispering Winter
January 2025

TOPICS: Antioxidants, Health and medicine, Disease prevention, Immunological Techniques, Economic impact of disease with respect to individual and societal welfare, Techniques in Molecular Biology, Cell signaling pathways and their intervention in diabetes, Neurodegenerative and cardiovascular illness, T-cell mediated pathophysiological changes in various types of cancer, Biostatistics in R

Confirmed Speakers:

Prof. Anand Kar Retired Prof. (DAVV, Indore) Topic: Diabetes pathogenesis

Prof. U.K. Patil (Department of Pharmacy) Topic: Role of functional food in wellness and healthy living

Prof. K.K.N. Sharma (Department of Anthropology) Topic: Indian Knowledge System

Prof. Rajesh Gautam (Department of Anthropology) Topic: Obesity

Prof. Manvinder Singh Pahwa (Deptt. Of Commerce) Topic: Performing Bio-statistical Analysis with R

Dr. Jitendra Kumar, Faculty at Bhaba Atomic Research Center, Mumbai

Topic: “Perspective of Biosensor for Detection of Pesticides”

Dr. M. Janaki Ramaiah (KL University) Topic: Glucose metabolism regulation by glucose transporter and their modulation by microRNA

Dr. Sumeet Rawat (M.B.B.S., M.D., Ph.D., AIIMS, Bhopal) Bundelkhand Medical College, Sagar, Topic: Role of microbiome in immune system maturation, metabolic health and homeostasis

Dr. Kiran Maheshwari (Medical Center) Topic: Health Related Issues & its Prevention in Reproductive Age Group

Dr. Satyam Verma (Department of Environmental Sciences) Topic: Green House Gas Emission and Public Health Challenges

Dr. Vaishali Yadav (Adina Institute of Pharmaceutical Sciences, Sagar), Topic: Seno therapeutic compounds

Dr. Bhawana Rewadikar (Department of Commerce) Topic: Economic Impact of Diseases with respect to the Individual and Societal Welfare

Dr. Poonam Dehariya (Department of Botany) Topic: Health Benefits of Mushroom

Dr. Sonal Mathur (Department of Botany) Topic: Photosystem I and II.

STUDENT AWARDS

✚ **Best Poster Award**

✚ **Best Poster Presentation Award**

✚ **Best Oral Presentation Award**

✚ **Best Research Theme Award**

FROM THE VICE CHANCELLOR'S DESK

It gives me an immense pleasure to be a Patron to a winter colloquium ***“Bridging Generations: Glimmering Life Sciences”***, In the yards of Zoology, Decorating Silence with Whispering Winter, January 2025 is being held at Zoology Department in Dr. H.S. Gour University, Sagar, Madhya Pradesh-India.

Current advances in life sciences have encouraged the biologists to make strides in revealing more about Biosciences and, elucidating its development and understanding the perspectives with the wellbeing of human. The revolution has brought about the ability to analyze the molecular mechanisms and understand the very basic nature of life in depth.

Understanding of the basic mechanisms of Biosciences especially the molecular interventions at the level of cell signaling pathways and their intervention in disease pathogenesis, is essential through this colloquium students shall be provided basic overviews on the newly emerging topics of the related field. Research and development in Life Science ranges from understanding the knowledge of antioxidants, health and medicine, disease prevention, immunological techniques, cell signaling pathways and their intervention in diabetes, neurodegenerative and cardiovascular illness, T-cell mediated pathophysiological changes in various types of cancer are promising and involves interdisciplinary fields ranging from a multidirectional application to the associates.

Thus, this winter course is anticipated to benefit a vast range of applicability to our students and delegates with experiment-based knowledge of Bioscience their multiple applications, to resolve the significance of every complex process of life and their intricacies

Prof. Neelima Gupta

Vice Chancellor

Dr. H.S. Gour University, Sagar, M.P.-India

CONVENER'S ADDRESSAL

I am excited to convene a winter colloquium ***"Bridging Generations: Glimmering Life Sciences"***, In the yards of Zoology, Decorating Silence with Whispering winter, January 2025 which is being held at Zoology Department in Dr. H.S. Gour University, Sagar.

Biosciences comprises of newly emerging fields of its own dedicated to study functional, anatomical, physiological and behavioral aspects. Multiple branches are in-depth study, molecular phenomena of the scientific and technological experiments and tests. Most significant achievements in the development of biosciences are the discovery of intricate communications between cells and their fine tune functioning that derives the variety of life forms on earth and transformations in all-possible adaptive forms.

However, a series of experiments by renowned scientists have proved that complexity and intricacies are evolving, that is how the entire universe functions in a pattern of specific and systematic way. To systematize the learning in life sciences we need to recover the gaps between generations who really wish to explore the world to become leading educationists, scientists and researchers and/or a good human being.

Here we aim, to let the students and learners know the language of Biosciences, also their reactivities and pathways which they operate, get exposed to the themes related to decorate science.

Prof. Shweta Yadav

Head

Department of Zoology

Dr. Harisingh Gour University, Sagar, Madhya Pradesh India

CO-ORDINATOR AND COURSE CO-COORDINATORS' ADDRESSAL

We are glad to coordinate winter colloquium *“Bridging Generations: Glimmering Life Sciences”*. In the yards of Zoology, Decorating Silence with Whispering winter, January 2025 being held at Zoology Department in Dr. H.S. Gour University, Sagar.

Biological Sciences is a key player in the human society as it affects health, economy and overall, the entire life forms and its interactions to the cosmos and the finest elements found in the atmosphere. Intricate mechanisms play a key role in the understanding of complex phenomenon. Significant advances in science and technology has increased our knowledge over the past few decades has been increased. To bridge the gap between generations and to fulfill knowledge-based requirements of the students among our own students and research group and their vibrant discussion with other college and/or university students will be beneficial in enriching learning and will provide a learning-based atmosphere to create a better education-based interaction in the campus.

Indigenous knowledge system, health related issues and its prevention in reproductive age group, biostatistics using R, economic impact of disease with respect to individual and societal welfare, health benefits of Mushroom, photosystem I and II, diabetes pathogenesis, senotherapeutic compounds, greenhouse gas emissions and public health challenges, obesity and many more vigilant topics will pose a good beneficiary among the students of our own university and nearby colleges.

Dr. Malabika Sikdar and Dr. Deepali Jat

Department of Zoology

Dr. Harisingh Gour University, Sagar, Madhya Pradesh

MANAGEMENT AND SUPPORT

Convener

Prof. Shweta Yadav

Course Co-ordinator

Dr. Malabika Sikdar

(Endocrinology laboratory in the Zoology Department)

TECHNICAL SUPPORT

(Web channelization, live streaming and recording, links generation) Dr. Nalini Tiwari, Dr. Kiran, Ms. Pooja, Mr. Anupam, Mr. Pradumn, Ms. Garima Stephen, Mr. Aamir Khan, Mr. Raghvendra, Mr. Raghuveer Gupta, Ms. Ankita Dwivedi (Scholar), Ms. Sneha Bibyan (Scholar), Mr. Deendayal Dangi (Scholar)

ADVISORY COMMITTEE (Internal)

Prof. V. Sharma (Prof., Insect Physiology and Endocrinology Lab., Zoology Dept.)

Prof. S. Yadav (Earth worm Biology Lab., Fish Biology lab., Zoology Dept.)

Dr. M. Sikdar (Biochemistry and Endocrinology lab., Zoology Dept.)

Dr. P. Mahobiya (Endocrinology Lab., Zoology Dept.)

Dr. R. K. Koiri (Cancer Biology Lab., Zoology Dept.)

MANAGEMENT SUPPORT

Prof. A.D. Sharma (Dean, DOSA)

Prof. Harel Thomas (Director Research and Development)

Prof. Naveen Kango (Dean, DOAA)

Prof. Ajeet Jaiswal (Dean, DOFA)

MANAGEMENT SUPPORT (Internal)

Shree U.N. Pandya

Mr. Mohit Singh Rathore

Mr. Ashutosh Soni

Mr. Ajay Kumar

Mr. Gajendra Singh Lodhi

Mr. Nandkishor Kushwaha

Mr. Rahul Kurmi

DAY 01 : WINTER COLLOQUIUM : SCHEDULE OF, 05.01.2025

S.No.	Chairpersons and Rapporteur	Speaker and Title of the talk	Time
		Welcome to Prof. Neelima Gupta (Vice Chancellor) Prof. Deelip Kumar Gupta	10:00 am
1.	Inaugural Session	Introduction to the Webinar: Deepali Jat	10:30 AM -10:35 AM
		Inaugural speech Prof. Shweta Yadav Dr. Harisingh Gour Vishwavidyalaya, Sagar	10:35 AM-10:50 AM
2.	Session 1. Chairperson: Prof. S.K. Jain Rapporteur: Dr. M. Sikdar	Key Note Speech 01: Prof. U.K. Patil Department of Pharmacy Topic: Role of functional food in wellness and healthy living	11:00 AM-1:45 AM
3.	Session 2. Chairperson: Prof. V. Sharma Rapporteur: Ms. Ankita	Key Note Speech 02: Prof. K.K.N. Sharma Department of Anthropology Topic: Indian Knowledge System	11:45AM - 12:25 PM
4.	Session 3 Chairman: Prof. S. K. Jain Rapporteur: Raghvendra	Invited Speaker: Dr. Kiran Maheshwari M.B.B.S. (Gynaecology Specialist) Topic: Health Related Issues & its Prevention in Reproductive Age Group	12:25 PM -12:55 PM
5.		Vote of Thanks	12:55 PM
6.		LUNCH BREAK	01:00 PM - 1:30 PM
777777	Session 4 Chairman: Dr. Deepali Jat Rapporteur:	Invited Speaker Dr. Jitendra Kumar Faculty Bhaba Atomic Research Center, Mumbai	1:30 to 2: 00 pm

	Mr. Raghuveer Gupta	Topic : “Perspective of Biosensor for Detection of Pesticides”	
7.	Session 5 Chairman: Dr. Malabika Sikdar Rapporteur: Mr. Raghuveer Gupta	Research Paper Presentation	02:00 PM - 05:00 PM

DAY 02 : WINTER COLLOQUIUM : SCHEDULE OF, 06.01.2025

S.No.	Chairpersons and Rapporteur	Speaker and Title of the talk	Time
1.		Program Information: Dr. Deepali Jat	11: 00 AM
2.	Session 6. Chairperson: Prof. Versha Sharma Rapporteur: Dr. Deepali Jat	Key Note Speaker: Prof. Manvinder Singh Pahwa Department of Commerce Topic: Performing Bio-statistical Analysis with R	11: 15 AM - 12 AM
		Invited Speaker: Dr. Bhawana Rewadikar Department of Commerce Topic: Economic Impact of Diseases with respect to the Individual and Societal Welfare	12:00 PM - 12:30 PM
3.	Session 7 Chairperson: Prof. Shweta Yadav Rapporteur: Ms. Sneha Bibyan	Invited Speaker: Dr. Poonam Dehariya Department of Botany Topic: Health Benefits of Mushroom	12: 30 PM - 1: 00 PM
		Invited Speaker: Dr. Sonal Mathur Department of Botany Topic: Photosystem I and II	01: 00 PM - 1: 30 PM
4.		Vote of Thanks: Dr. M.Sikdar	01: 30 PM
5.		Lunch Break	01:30PM - 02:30PM
6.	Session 8 Chairperson: Dr. Raj Kumar Koiri Rapporteur:	P.G. Students Poster Presentation	02:30 PM - 05 PM

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DAY 03 : WINTER COLLOQUIUM : SCHEDULE OF, 07.01.2025

No.	Chairpersons and Rapporteur	Speaker and Title of the talk	Time
1.		Program Information: Dr. Deepali Jat	11:00 AM
2.	Session 9: Chairperson: Prof. Versha Sharma Rapporteur: Dr. Deepali Jat	Key Note Speaker: Prof. Anand Kar Retired Prof. (DAVV, Indore) Topic: Diabetes pathogenesis	11:10 AM - 11:55 AM
		Invited Speaker: Dr. Satyam Verma Department of Environmental Sciences Topic: Green House Gas Emission and Public Health Challenges	11:55 AM - 12:25 PM
3.	Session 10: Chairperson: Prof. Shweta Yadav Rapporteur: Ms. Sneha Bibyan	Invited Speaker: Dr. Vaishali Yadav Adina Institute of Pharmaceutical Sciences, Sagar Topic: Seno therapeutic compounds	12:25 PM - 12:55 PM
		Keynote Speaker: Dr. M. Janaki Ramaiah KL University, Guntur, Andhra Pradesh Topic: Glucose metabolism regulation by glucose transporter and their modulation by microRNA	01:00 PM – 1:30 PM
4.		Vote of Thanks: Ms. Ankita Dwivedi	1:30 pm
5.		Lunch Beak	1:30 to 02 pm
6.	Session 11: Chairperson: Dr. Payal Mahobiya Rapporteur: Mr. Amir Khan	Keynote Speaker: Dr. Sumeet Rawat (M.B.B.S., M.D., Ph.D., AIIMS, Bhopal) Bundelkhand Medical College, Sagar Topic: Role of microbiome in immune system maturation, metabolic health and homeostasis	03PM - 04 PM
7.	Session 12 Chairperson: Dr. Raj Kumar Koiri Rapporteur: Dr. Payal Mahobiya	Keynote Speaker: Prof. Rajesh Goutam Department of Anthropology Topic: Obesity	04 PM - 05 PM
7		Valedictory Function and Award distribution	5 PM
8		National Anthem	06 PM

