

# 2024

**SHRI LAL BAHADUR SHASTRI DEGREE COLLEGE  
GONDA**

Department of Zoology



A One Day Seminar  
Under Intellectual Property Rights  
Organized by  
Department of Zoology  
On  
**"Genetics and Public Health"**  
(March 28, 2024)

**[ SEMINAR REPORT ]**

A one day seminar under intellectual property rights on "Genetics and Public Health".



SHRI LAL BHADUR SHASTRI DEGREE COLLEGE, GONDA

श्री लाल बहादुर शास्त्री डिग्री कॉलेज, गोण्डा

AN AFFILIATED COLLEGE OF DR RAMMANOHAR LOHIA AVADH UNIVERSITY, AYODHYA, (U.P)

**Department of Zoology**  
**One day seminar under intellectual  
property rights**

(March 28, 2024)

**On**

**Genetics and Public Health**

**Organized by**

**Department of Zoology & IQAC, SLBSDC, Gonda**

**Inaugural Lecture**

**By**

**Prof. R.K. Pandey**

**(10.30 am to 11.15 am)**

**High Tea**

**(11.30 am to 11.45 am)**

**Keynote Speakers**

Lecture 1 (11.30 am to 12.45 pm)	Lecture 2 (12.45 pm to 1.30 pm)	Lunch Break (1.30 pm To 02.00 pm)	Lecture 3 (2.00 pm to 02.45 pm)	Lecture 4 (2.45 pm to 03.30pm)
Dr. Akhtar Ali Centre for Genetic Disorders Banaras Hindu University Varanasi	Dr. Rekha Sharma Dept. of Botany SLBSDC, Gonda		Shishir Tripathi HOD, Zoology SLBSDC Gonda	Dr. Pushyamitra Mishra Dept. of Chemistry SLBSDC Gonda

## Venue:

Conference Hall, Science Campus, Shri Lal Bahadur Shastri Degree College, Gonda

<b>Chief Patron</b> <b>Varsha Singh</b> Vice-President	<b>Patron</b> <b>Shri Umesh Shah</b> Secretary
<b>President</b> <b>Prof. R. K. Pandey</b> Principal	<b>Convener</b> <b>Shishir Tripathi</b> Head, Department of Zoology
<b>Organizing Secretary</b> <b>Dr. Ashok Kumar Pandey</b> Assistant Professor, Department of Zoology	<b>Organizing Secretary</b> <b>Dr. Satish Kumar Tiwari</b> Assistant Professor, Department of Zoology

### Organizing Committee

<b>Mr. Raghvendra Mishra,</b> Guest Faculty, Department of Zoology	<b>Mr. Anand Kumar Chaturvedi,</b> Guest Faculty, Department of Zoology	<b>Ms. Tanzeela Fatima,</b> Guest Faculty, Department of Zoology

### Advisory Board: Prof. R. S. Singh Coordinator IQAC

Prof. S. K. Pandey, Head, Deptt. Of Mathematics	Mr. Awadhesh K. Verma, SLBSDC, Gonda
Prof. Jitendra Singh Head, Deptt. Of Physics	Mr. Pawan Kumar Singh, SLBSDC, Gonda
Prof. S. K. Srivastava, Head, Deptt. Of Botany	Dr. Shailesh Kumar, SLBSDC, Gonda
Prof. Vandana Saraswat, SLBSDC, Gonda	Mr. Om Prakash Yadav, SLBSDC, Gonda
Prof. Binod Pratap Singh, SLBSDC, Gonda	Dr. Achyut Shukla, SLBSDC, Gonda
Prof. Aman Chandra, SLBSDC, Gonda	Dr. B. N. Pal SLBSDC, Gonda
Prof. Vijay Kr Agrawal, SLBSDC, Gonda	Dr. Pooja Yadav SLBSDC, Gonda
Prof. Shiv Sharan Shukla, SLBSDC, Gonda	Dr. Mamta Shukla, SLBSDC, Gonda
Prof. B. Singh Baghel, SLBSDC, Gonda	Dr. Raj B. Chaudhary, SLBSDC, Gonda
Prof. Rajeev Kr Agrawal, SLBSDC, Gonda	Dr. Rachna Srivastava, SLBSDC, Gonda
Prof. A. K. Srivastava, SLBSDC, Gonda	Dr. Shailja Singh, SLBSDC, Gonda
Prof. J. B. Pal, SLBSDC, Gonda	Dr. Smriti Shishir, SLBSDC, Gonda
Prof. S. B. Singh, SLBSDC, Gonda	Dr. Neetu Saxena, SLBSDC, Gonda
Prof. V. CH. NK S. Rao, SLBSDC, Gonda	Dr. Manisha Pal, SLBSDC, Gonda
Dr. Chaman Kaur, SLBSDC, Gonda	Dr. Priyanka Srivastava, SLBSDC, Gonda
Dr. Neeraj Yadav, SLBSDC, Gonda	Mr. Abhay Dwivedi, SLBSDC, Gonda
Mr. L. Kalyani, SLBSDC, Gonda	Mr. Shobhit Maurya, SLBSDC, Gonda
Dr. Smita Singh, SLBSDC, Gonda	Dr. Harish Kr. Shukla, SLBSDC, Gonda
Dr. Dharmendra Pratap Singh, SLBSDC, Gonda	Ms. Anuradha Gupta, SLBSDC, Gonda
Prof. Sandeep Kumar Srivastava, SLBSDC, Gonda	Dr. Arun Pratap Singh, SLBSDC, Gonda
Dr. Vinay Kumar Pandey, SLBSDC, Gonda	Dr. Dalip Kumar, Singh SLBSDC, Gonda
Dr. Ajeet Kumar Mishra, SLBSDC, Gonda	Dr. Ramint Patel, SLBSDC, Gonda

**A One Day Seminar**  
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**On**  
**Genetics and Public Health**

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**Organized by:** Department of Zoology and Internal Quality Assurance Cell (IQAC), SLBSDC, Gonda

**Date:** March 28, 2024

**Venue:** Conference Hall, Science Campus, Sri Lal Bahadur Shastri Degree College, Gonda.

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On March 28, 2024, the Department of Zoology in collaboration with the Internal Quality Assurance Cell (IQAC) at SLBSDC, Gonda, organized an insightful seminar on the topic "Genetics and Public Health." The seminar aimed to bridge the gap between the rapidly evolving field of genetics and its significant implications for public health. It was attended by MSc students, faculty members, and other distinguished guests from various departments.

#### **Welcome Address**

The seminar commenced with a formal welcome address by **Professor R. K. Pandey**, Principal of SLBSDC, Gonda. In his opening remarks, Professor Pandey emphasized the growing importance of genetics in understanding public health challenges. He highlighted how genetic research is becoming increasingly essential in developing preventive measures and treatments for a wide range of diseases, thereby improving overall healthcare outcomes.

#### **Keynote Address by Dr. Akhtar Ali**

The chief speaker, **Dr. Akhtar Ali**, who serves as the Coordinator at the Centre for Genetic Disorders, Banaras Hindu University, Varanasi, delivered the keynote address. Dr. Ali's lecture was both comprehensive and thought-provoking, covering various aspects of genetics and their direct application in public health.

He began by outlining the basic concepts of genetics, explaining how genetic variations can influence an individual's susceptibility to certain diseases. Dr. Ali emphasized the importance of genetic screening and its role in early detection of hereditary conditions, which can significantly reduce the burden of disease on individuals and healthcare systems.

Furthermore, Dr. Ali discussed the advancements in genomics and how they are paving the way for personalized medicine. He explained that with the help of genetic information, healthcare providers can tailor treatments to individual patients, thereby increasing the effectiveness of therapies and minimizing adverse effects. His talk also touched upon the ethical implications of genetic research, particularly in terms of privacy and the potential for genetic discrimination.

### **Session by Dr. Rekha Sharma**

Following Dr. Ali's address, **Dr. Rekha Sharma**, Assistant Professor in the Department of Botany at SLBSDC, Gonda, presented her views on the intersection of genetics and plant biology. Dr. Sharma highlighted the role of genetically modified organisms (GMOs) in enhancing food security and public health. She discussed how GMOs can be engineered to be more nutritious and resistant to diseases, which can help address malnutrition and food scarcity issues in developing regions.

Dr. Sharma also elaborated on the potential risks associated with GMOs, including ecological impacts and ethical concerns. She stressed the need for rigorous scientific evaluation and regulatory oversight to ensure that GMOs contribute positively to public health without causing unintended harm to the environment.

### **Presentation by Dr. Pushyamitra Mishra**

**Dr. Pushyamitra Mishra**, Head of the Department of Chemistry at SLBSDC, Gonda, provided a detailed analysis of the chemical basis of genetics. His presentation focused on the structure and function of DNA, RNA, and proteins, and how these molecules play a critical role in the expression of genetic information.

Dr. Mishra discussed the latest developments in gene editing technologies, such as CRISPR-Cas9, and their potential to revolutionize the treatment of genetic disorders. He provided examples of how these technologies are being used to develop new therapies for conditions like sickle cell anemia and cystic fibrosis. Additionally, Dr. Mishra touched upon the ethical and safety concerns associated with gene editing, particularly in the context of human germline modification.

### **Insights by Shishir Tripathi**

The seminar then moved to a zoological perspective, with **Shishir Tripathi**, Head of the Department of Zoology at SLBSDC, Gonda, sharing his insights on the role of genetics in animal studies. Mr. Tripathi highlighted the importance of using animal models in genetic research to understand the genetic basis of human diseases.

He provided examples of how studies on model organisms, such as mice and fruit flies, have led to significant breakthroughs in understanding genetic disorders and developing new treatments. Mr. Tripathi also emphasized the need for conserving genetic diversity in wildlife populations, as this diversity is essential for the resilience of ecosystems and the survival of species in the face of environmental changes.

### **Interactive Session and Conclusion**

The seminar concluded with an interactive session where students and faculty had the opportunity to engage directly with the speakers. This session was marked by a lively discussion on various topics, including the future of genetic research, the potential for personalized medicine, and the ethical considerations of genetic interventions.

Participants expressed their appreciation for the depth and breadth of knowledge shared by the speakers. The discussions not only enriched the students' understanding of genetics and public health but also inspired them to consider the broader implications of their studies in these fields.

In his closing remarks, **Professor R. K. Pandey** thanked all the speakers for their valuable contributions and encouraged the students to continue exploring the dynamic field of genetics. He reiterated the importance of interdisciplinary collaboration in addressing complex public health challenges and underscored the role of educational institutions in fostering such collaborations.

### **Conclusion**

The seminar on "Genetics and Public Health" was a resounding success, offering a platform for meaningful dialogue between students, faculty, and experts in the field. It underscored the critical role of genetics in modern medicine and public health, and provided participants with a deeper understanding of the potential and challenges of this rapidly advancing field.

The event was a testament to the commitment of SLBSDC, Gonda, in promoting academic excellence and fostering a culture of research and innovation among its students and faculty.

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## List of Participants (M.Sc. &amp; B.Sc. Zoology)

S.NO.	STUDENT NAME	FATHER NAME	CLASS
1	MUKESH KUMAR YADAV	NARENDRA BAHADUR	M.Sc. IV Sem
2	SALEEM SHAHJADE	SHAHID ALI	M.Sc. IV Sem
3	SHIVAM	AYODHYA PRASAD	M.Sc. IV Sem
4	SIDDHARTHA SINGH	ARUN KUMAR SINGH	M.Sc. IV Sem
5	AKANSHA SINGH	PRADEEP SINGH	M.Sc. IV Sem
6	ANSHU MAURYA	CHINTA RAM MAURYA	M.Sc. IV Sem
7	FATMA KHATUN	SHAHJAHAN AHMAD	M.Sc. IV Sem
8	GUDIYA DEVI	RAJ KARAN	M.Sc. IV Sem
9	KM AKANKSHA VERMA	VIVEKANAND VERMA	M.Sc. IV Sem
10	KM ROSHANI DEVI	RAM KRIPAL	M.Sc. IV Sem
11	KM SAUMYA DEVI	DEVENDRA KUMAR TIWARI	M.Sc. IV Sem
12	KM SONAL CHATURVEDI	SRI INDRA KUMAR CHATURVEDI	M.Sc. IV Sem
13	LUCKY TIWARI	ASHOK KUMAR TIWARI	M.Sc. IV Sem
14	MADHU	HEERA LAL	M.Sc. IV Sem
15	MANSI PANDEY	SHANTANU KUMAR PANDEY	M.Sc. IV Sem
16	MEENAKSHI CHATURVEDI	CHANDRA PRAKASH	M.Sc. IV Sem
17	NIDA KHATOON	JAMAL AHMAD	M.Sc. IV Sem
18	PAMMY KANOJIYA	VANSHRAJ KANOJIYA	M.Sc. IV Sem
19	PRAGYA SINGH	RAM NARAYAN SINGH	M.Sc. IV Sem
20	PREETI PATHAK	AVADHESH KUMAR PATHAK	M.Sc. IV Sem
21	PRIYA SINGH	PAPPU SINGH	M.Sc. IV Sem
22	REETA VISHWAKARMA	BALAKRAM VISHWAKARMA	M.Sc. IV Sem
23	RIDA KHAN	IZHARUL HUDA KHAN	M.Sc. IV Sem
24	SAKEENA	BADRUDDUJA	M.Sc. IV Sem
25	SANIYA BEGAM	LAIQ KHAN	M.Sc. IV Sem
26	SAPANA JAISWAL	MAHESH JAISWAL	M.Sc. IV Sem
27	SHAHNAJ BANO	MOHD MOBEEN	M.Sc. IV Sem
28	SHAYESTA RAHMAN	ABDUR RAHMAN	M.Sc. IV Sem
29	SONAM SAHU	DEEPAK KUMAR SAHU	M.Sc. IV Sem
30	SUGAM SINGH	SURYA BAKASH SINGH	M.Sc. IV Sem
31	SUGANDHA RAJ SRIVASTAVA	RAJESH KUMAR SRIVASTAV	M.Sc. IV Sem
32	TABASSUM BANO	ABDUL HALEEM	M.Sc. IV Sem
33	VAISHNAVI SINGH	VEER PRATAP SINGH	M.Sc. IV Sem
34	VANDANA TIWARI	MAHESH DUTT TIWARI	M.Sc. IV Sem
35	VERSAH GOND	ANIL KUMAR GOND	M.Sc. IV Sem
36	VIDUSHI SRIVASTAVA	KUNWAR RAKESH CHANDRA	M.Sc. IV Sem
37	ATUL TIWARI	SATISH CHANDRA TIWARI	B.Sc. VI Sem
38	AVADH NARESH MISHRA	PARMATMADIN MISHRA	B.Sc. VI Sem
39	BABBU VERMA	MUNSHI LAL VERMA	B.Sc. VI Sem
40	BHANU PRATAP SAURABH	VISHWANATH	B.Sc. VI Sem
41	BHUPENDRA KUMAR MISHRA	SHIV KUMAR MISHRA	B.Sc. VI Sem
42	BRIJ MOHAN TRIVEDI	MADAN GOPAL TRIVEDI	B.Sc. VI Sem
43	BRIJENDRA KUMAR	SHRAVAN KUMAR	B.Sc. VI Sem
44	BRIJESH SHUKLA	JAGDAMBA PRASAD SHUKLA	B.Sc. VI Sem



List of Participants (M.Sc. & B.Sc. Zoology)

45	DURGESH KUMAR	RAM KISHOR	B.Sc. VI Sem
46	GULSHAN MISHRA	RAM SHANKAR MISHRA	B.Sc. VI Sem
47	HARI OM SHUKLA	UMA SHANKAR SHUKLA	B.Sc. VI Sem
48	HIMANSHU MISHRA	BADSHAH MISHRA	B.Sc. VI Sem
49	JAIDEEP SHUKLA	MADHAV RAJ SHUKLA	B.Sc. VI Sem
50	JAINENDRA KUMAR	HEERA LAL	B.Sc. VI Sem
51	JEET GUPTA	DURGA PRASAD GUPTA	B.Sc. VI Sem
52	KAMAL PANDEY	GHANSHYAM PANDEY	B.Sc. VI Sem
53	KANHAIYA LAL SONI	SRWAN KUMAR SONI	B.Sc. VI Sem
54	KANHAIYA YADAV	BADALU YADAV	B.Sc. VI Sem
55	KARUNANIDHAN TIWARI	NARENDRA TIWARI	B.Sc. VI Sem
56	ATUL TIWARI	SATISH CHANDRA TIWARI	B.Sc. VI Sem
57	AVADH NARESH MISHRA	PARMATMADIN MISHRA	B.Sc. VI Sem
58	BABBU VERMA	MUNSHI LAL VERMA	B.Sc. VI Sem
59	BHANU PRATAP SAURABH	VISHWANATH	B.Sc. VI Sem
60	BHUPENDRA KUMAR MISHRA	SHIV KUMAR MISHRA	B.Sc. VI Sem
61	BRIJ MOHAN TRIVEDI	MADAN GOPAL TRIVEDI	B.Sc. VI Sem
62	BRIJENDRA KUMAR	SHRAVAN KUMAR	B.Sc. VI Sem
63	BRIJESH SHUKLA	JAGDAMBA PRASAD SHUKLA	B.Sc. VI Sem
64	DURGESH KUMAR	RAM KISHOR	B.Sc. VI Sem
65	GULSHAN MISHRA	RAM SHANKAR MISHRA	B.Sc. VI Sem
66	HARI OM SHUKLA	UMA SHANKAR SHUKLA	B.Sc. VI Sem