# 2023

## SHRI LAL BAHADUR SHASTRI DEGREE COLLEGE GONDA

**DEPARTMENT OF ZOOLOGY** 



One Day Seminar
Under Intellectual Property Rights
Organized by
Department of Zoology and IQAC
On

**Use of Biopesticides in** 

**Integrated Pest Management** 

(IPM)

(January 19, 2023)



Shri Lal Bahadur Shastri Degree College, Gonda



One Day Seminar on Intellectual Property Rights
Topic: Use of Biopesticides in Integrated Pest Management (IPM)
Date: 19/01/2023
Time:- 10.00 am – 04.00 pm

Organized by Department of Zoology, SLBSDC, Gonda

# **Inaugural Lecture**

By



Prof. Mukul Sinha Head, Department of Zoology SLBSDC GONDA

(10.00 am to 11.00 am)

High Tea- (11.00 am to 11.30 am)

# **Keynote Speakers**

Lecture 1: Introduction to **Biopesticides** 

(11.30 am to 12.45 pm)



Lecture 2: Biopesticides in action: Case **Studies** (12.45 pm to 01.30 pm)



Lunch Break (1.30 pm-2.00 pm) Lecture 3: Integration of Biopesticides

Lecture 4: Challenges & **Future Directions** 

(02.45 pm to 03.30 pm)



Shishir Tripathi

Dr. Sadguru Prakash Dept. of Zoology SLBSDC,Gonda Balrampur

Dr. Ashok Kumar

Dr. Satish Tiwari

Dept. of Zoology MLK PG College

Dept. of Zoology MLK PG College Balrampur

Dept. of Zoology SLBSDC,Gonda

#### Venue:

Smt. Lalita Shastri Sabhagar, Shri Lal Bahadur Shastri Degree College, Gonda

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# A One Day Seminar Under Intellectual Property Rights Organized Department of Zoology And IQAC- SLBSDC

# Use of Biopesticides in Integrated Pest Management (IPM)

#### Introduction

The seminar on "Exploring the Role of Biopesticides in Integrated Pest Management (IPM)" was held with the aim of investigating the multifaceted aspects of biopesticides and their integration into IPM strategies. The seminar was organized in response to the escalating concerns over environmental sustainability, food safety, and public health, emphasizing the need for adopting eco-friendly and sustainable approaches to pest management.

#### **Keynote Address**

The seminar commenced with a keynote address, highlighting the importance of biopesticides in addressing the challenges posed by conventional chemical pesticides. The speaker emphasized the need for a paradigm shift towards sustainable pest management practices and outlined the potential benefits of integrating biopesticides into IPM frameworks.

#### **Session 1: Introduction to Biopesticides**

The first session focused on understanding the diverse types of biopesticides, their modes of action, and their suitability for different pest management scenarios. Speakers discussed the mechanisms underlying biopesticides and highlighted their specificity towards target pests, thus reducing the risk of resistance development. Case studies were presented to illustrate the efficacy of biopesticides in controlling various pests while minimizing environmental impact.

#### Session 2: Case Studies and Success Stories

The fourth session showcased real-world examples of successful biopesticide applications in various agricultural systems. Speakers shared their experiences with implementing biopesticides, highlighting their efficacy, economic benefits, and environmental sustainability. Case studies ranged from small-scale organic farms to large commercial operations, demonstrating the versatility of biopesticides in different agricultural contexts.

## **Session 3: Integration with IPM**

The third session explored effective strategies for integrating biopesticides into broader IPM programs. Speakers discussed the importance of incorporating biopesticides as part of an integrated approach to pest management, highlighting their synergistic effects with other control methods such as cultural practices and biological control agents. Case studies were presented to demonstrate successful integration strategies and their impact on pest control efficacy.

## Session 2: Advantages, Challenges and Future Directions

The second session delved into the advantages and challenges associated with the use of biopesticides in comparison to conventional chemical pesticides. Speakers discussed the reduced toxicity levels of biopesticides, their minimal residue buildup, and their compatibility with organic farming practices. However, challenges such as efficacy, regulatory frameworks, and commercial viability were also addressed, emphasizing the need for further research and development in this field. The final session identified emerging trends, research priorities, and opportunities for innovation in the field of biopesticides. Speakers discussed the potential for developing novel formulations, improving delivery systems, and expanding the range of biopesticides available for different crops and pests. Participants engaged in lively discussions on future directions for research and development, emphasizing the importance of collaboration between academia, industry, and government agencies.

#### Conclusion

In conclusion, the seminar provided valuable insights into the role of biopesticides in integrated pest management. Participants gained a deeper understanding of the benefits and challenges associated with biopesticide use and explored strategies for effectively integrating biopesticides into sustainable pest management practices. The seminar facilitated knowledge exchange, collaboration, and networking among researchers, practitioners, policymakers, and industry stakeholders, laying the groundwork for future advancements in this critical field.

#### Recommendations

Based on the discussions and presentations at the seminar, the following recommendations are proposed:

- Encourage further research and development in biopesticide technology to address existing challenges and expand their applicability.
- Promote greater awareness and education on the benefits of biopesticides among farmers, policymakers, and consumers.
- Facilitate collaboration between academia, industry, and government agencies to support innovation and technology transfer in biopesticide development.
- Establish regulatory frameworks that streamline the registration and approval process for biopesticides while ensuring safety and efficacy standards are met.

#### Acknowledgments

We extend our sincere thanks to all the speakers, participants, sponsors, and organizers who contributed to the success of the seminar. Special thanks to Prof. Ravindra Kumar (Principal) for their invaluable support and guidance throughout the planning and execution of the event.

#### **Next Steps**

Moving forward, it is essential to build upon the momentum generated by the seminar and continue advocating for the adoption of biopesticides in integrated pest management. Follow-up activities such as workshops, training programs, and collaborative research projects should be pursued to further advance sustainable pest management practices and enhance agricultural productivity.

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Principal
Shri Lal Bahadur Shastri Degree College
Gonda

Sr. No.	List of Participant	
1	sugandha raj srivastava	M.Sc-Zoology Semester-1
2	sonam sahu	M.Sc-Zoology Semester-1
3	SANIYA BEGAM	M.Sc-Zoology Semester-1
4	MEENAKSHI CHATURVEDI	M.Sc-Zoology Semester-1
5	AKANKSHA VERMA	M.Sc-Zoology Semester-1
6	REETA VISHWAKARMA	M.Sc-Zoology Semester-1
7	SALEEM SHAHJADE	M.Sc-Zoology Semester-1
8	LUCKY TIWARI	M.Sc-Zoology Semester-1
9	SONAL CHATURVEDI	M.Sc-Zoology Semester-1
10	akansha singh	M.Sc-Zoology Semester-1
11	PREETI PATHAK	M.Sc-Zoology Semester-1
12	laxmi gupta	M.Sc-Zoology Semester-1
13	km roshani devi	M.Sc-Zoology Semester-1
14	KM SAUMYA DEVI	M.Sc-Zoology Semester-1
15	saba	M.Sc-Zoology Semester-1
16	SHIVAM	M.Sc-Zoology Semester-1
17	MADHU	M.Sc-Zoology Semester-1
18	shahnaj bano	M.Sc-Zoology Semester-1
19	MUKESH KUMAR YADAV	M.Sc-Zoology Semester-1
20	VANDANA TIWARI	M.Sc-Zoology Semester-1
21	siddhartha singh	M.Sc-Zoology Semester-1
22	PAMMY KANOJIYA	M.Sc-Zoology Semester-1
23	GUDIYA DEVI	M.Sc-Zoology Semester-1
24	PRAGYA SINGH	M.Sc-Zoology Semester-1
25	priya singh	M.Sc-Zoology Semester-1
	fatma khatun	M.Sc-Zoology Semester-1
27	MANSI PANDEY	M.Sc-Zoology Semester-1
28	versha gond	M.Sc-Zoology Semester-1
	NIDA KHATOON	M.Sc-Zoology Semester-1
30	shayesta rahman	M.Sc-Zoology Semester-1
31	SAKEENA	M.Sc-Zoology Semester-1
32	Rida Khan	M.Sc-Zoology Semester-1
33	vidushi srivastava	M.Sc-Zoology Semester-1
34	VAISHNAVI SINGH	M.Sc-Zoology Semester-1
35	tabassum bano	M.Sc-Zoology Semester-1
36	SUGAM SINGH	M.Sc-Zoology Semester-1
37	ANSHU MAURYA	M.Sc-Zoology Semester-1
38	SAPANA JAISWAL	M.Sc-Zoology Semester-1
39	RUPALI SONI	M.Sc-Zoology Year-2
40	gulnaz fatima	M.Sc-Zoology Year-2
	ashna shaukat	M.Sc-Zoology Year-2
	AARTI	M.Sc-Zoology Year-2
43	PRIYANKA JAYSAVAL	M.Sc-Zoology Year-2
44	MARIYAM SALMAN	M.Sc-Zoology Year-2
	madiha abbasi	M.Sc-Zoology Year-2
46	SHALINI SAHU	M.Sc-Zoology Year-2

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47	AJAY KUMAR TIWARI	M.Sc-Zoology Year-2
48	FIRDAUS AKHTAR	M.Sc-Zoology Year-2
49	garima bhaskar	M.Sc-Zoology Year-2
50	farjana bano	M.Sc-Zoology Year-2
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	khusbu soni	M.Sc-Botany Semester-1
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189	RAMAN SINGH	M.Sc-Chemistry Semester-1
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	Bhaskar Mishra	M.Sc-Chemistry Year-2
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	anamika singh	M.Sc-Chemistry Year-2
	SHABBEER AHMAD	M.Sc-Chemistry Year-2
	Vinay kumar upadhyay	M.Sc-Chemistry Year-2
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	ANKIT KUMAR MISHRA	M.Sc-Chemistry Year-2
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	MARUTENDRA TIWARI	M.Sc-Chemistry Year-2
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	DURGESH KUMAR PANDEY	M.Sc-Chemistry Year-2
	BAIJ NATH GUPTA	M.Sc-Chemistry Year-2
-	NIDHI DUBEY	M.Sc-Chemistry Year-2
	Anchal soni	B.Sc Bio Year-3
	MANISH GOSWAMI	B.Sc Bio Year-3
	jagdamba sharan sahu	B.Sc Bio Year-3
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	rajit ram verma	B.Sc Bio Year-3
	RAGINI PANDEY	B.Sc Bio Year-3
	PRATIBHA GAUTAM	B.Sc Bio Year-3
	Anamika Srivastva	B.Sc Bio Year-3
	RUPALI SHUKLA	B.Sc Bio Year-3
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	SHANTI KASHYAP	B.Sc Bio Year-3
236	anshika tiwari	B.Sc Bio Year-3
237	Deepika Verma	B.Sc Bio Year-3
238	sakshi srivastva	B.Sc Bio Year-3
239	NISHA MAURYA	B.Sc Bio Year-3
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243	RUBY MISHRA	B.Sc Bio Year-3
	PINKY YADAV	B.Sc Bio Year-3
	unnat verma	B.Sc Bio Year-3
	ANJANI DEVI	B.Sc Bio Year-3
	GIRIJA SHANKAR TIWARI	B.Sc Bio Year-3
	priya mishra	B.Sc Bio Year-3
	anand kumar	B.Sc Bio Year-3
	KM NEHA GAUTAM	B.Sc Bio Year-3
	AKEESH KUMAR SONKAR	B.Sc Bio Year-3
	AKASH VERMA	B.Sc Bio Year-3
	BHASHKAR	B.Sc Bio Year-3
	soni pandey	B.Sc Bio Year-3
		B.Sc Bio Year-3
	rahul gupta	
	vishal maurya	B.Sc Bio Year-3
	SARVESH YADAV	B.Sc Bio Year-3
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271	ANKET PANDEY	B.Sc Bio Year-3
272	SHUBHI TIWARI	B.Sc Bio Year-3
273	KOMAL TIWARI	B.Sc Bio Year-3
274	KM MONU SHUKLA	B.Sc Bio Year-3
275	vikash kumar mishra	B.Sc Bio Year-3
276	SUBHAM KUMAR SHUKLA	B.Sc Bio Year-3
277	AshraH Meraj	B.Sc Bio Year-3
278	Mukesh Jayswal	B.Sc Bio Year-3
279	LAXMI JAISWAL	B.Sc Bio Year-3
280	UTKARSH SINGH	B.Sc Bio Year-3
281	pankaj mishra	B.Sc Bio Year-3
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282	Ashutosh Mishra	B.Sc Bio Year-3
283	SUBHASH CHANDRA	B.Sc Bio Year-3
284	ajay kumar gautam	B.Sc Bio Year-3
285	TUSHAR BHATT	B.Sc Bio Year-3
286	vishnu singh	B.Sc Bio Year-3
287	SURYA PRAKASH CHATURVEDI	B.Sc Bio Year-3
288	rahul kumar	B.Sc Bio Year-3
289	manish chandra dubey	B.Sc Bio Year-3
	MAMTA CHAUDHARI	B.Sc Bio Year-3
291	DIVYATA UPADHYAY	B.Sc Bio Year-3
292	asif umair	B.Sc Bio Year-3
293	PRIYANSHI	B.Sc Bio Year-3
294	Vishwajeet singh	B.Sc Bio Year-3
	DIVYANSHI	B.Sc Bio Year-3
-	RUCHI TIWARI	B.Sc Bio Year-3
	SUMAN	B.Sc Bio Year-3
	PRACHI OJHA	B.Sc Bio Year-3
	SHALINI GIRI	B.Sc Bio Year-3
	NEETIKA VISHWAKERMA	B.Sc Bio Year-3
	Akash Tiwari	B.Sc Bio Year-3
	kalpana	B.Sc Bio Year-3
	NISHU YADAV	B.Sc Bio Year-3
-	savitri bharti	B.Sc Bio Year-3
	Srishti Gupta	B.Sc Bio Year-3
	vaatika singh	B.Sc Bio Year-3
	SHIVAM KUMAR	B.Sc Bio Year-3
	MOHD ARIF	B.Sc Bio Year-3
	Abhishek kumar	B.Sc Bio Year-3
	MITHILESH	B.Sc Bio Year-3
	MANISH TIWARI	B.Sc Bio Year-3
	HRITIK PANDEY	B.Sc Bio Year-3
	Ravi Pandey	B.Sc Bio Year-3
	sahreen BANO	B.Sc Bio Year-3
	RUPAM RITIKA	B.Sc Bio Year-3
	ANCHAL DUBEY	B.Sc Bio Year-3
	Neha Bhaskar	B.Sc Bio Year-3
	SHIVANI DUBEY	B.Sc Bio Year-3
	MANISH TIWARI	B.Sc Bio Year-3
	Pranjal pandey	B.Sc Bio Year-3
	KISHAN KUMAR	B.Sc Bio Year-3
	JAANHAVI BRIJESH	B.Sc Bio Year-3
	KEERTI VISHVAKARMA	B.Sc Bio Year-3
	KRISHNA KANT TIWARI	B.Sc Bio Year-3
	apurva	B.Sc Bio Year-3
	ANSHIKA SINGH	B.Sc Bio Year-3
	AWDHESH KUMAR	B.Sc Bio Year-3
328	Sajid Ansari	B.Sc Bio Year-3

329	pallavi tiwari	B.Sc Bio Year-3
330	vikash kumar tiwari	B.Sc Bio Year-3
331	ARPITA SINGH	B.Sc Bio Year-3
332	UTTAM SHUKLA	B.Sc Bio Year-3
333	UMESH KUMAR YADAV	B.Sc Bio Year-3
334	SUDHESH KUMAR MAURYA	B.Sc Bio Year-3
335	SANJAY MANI	B.Sc Bio Year-3
336	SHIVAM KUMAR TIWARI	B.Sc Bio Year-3
337	SONI KANAUJIA	B.Sc Bio Year-3
338	RAMSHA JAMEEL	B.Sc Bio Year-3
339	SAUMYA SINGH	B.Sc Bio Year-3
340	KARISHMA SAHNI	B.Sc Bio Year-3