



Two-day Satellite Workshop on

Application of Proteomics in Biosciences & Biotechnology

Theme:

**Proteomics in Modern Biological
Research: From Molecules to Mechanisms**

Organized by:

Department of Fishery Sciences, Vidyasagar University,
Midnapore, West Bengal

In Collaboration with

Society of Veterinary Biochemists and Biotechnologists
of India (SVBBI), Bhubaneswar



Dates:

September 10-11, 2026



Venue:

DR. A.P.J. ABDUL KALAM SABHA KAKSHA,
VIDYASAGAR UNIVERSITY



Target Participants:

Students, Research Scholars,
Faculty, Industry personnel



Registration fees:

Students: Rs 500/-
Research Scholars: Rs. 750/-
Faculty: Rs. 1000/-;
Industry personnel: 2000/-



Department Profile :

The Department of Fishery Sciences (formerly Department of Aquaculture Management and Technology), Vidyasagar University, established in 2003, has emerged as a prominent centre for postgraduate education and research in Fisheries Science in eastern India. Over two decades, the Department has produced more than 600 postgraduate graduates serving in government organizations, universities, research institutions and the aquaculture industry. It offers M.Sc. in Fisheries Science, M.F.Sc. in Aquaculture and Ph.D. in Fishery Sciences, with academic programmes integrating theoretical learning, practical training, field exposure and research in accordance with NEP 2020. The Department undertakes multidisciplinary research in aquaculture, fish breeding and reproductive biology, nutrition, hatchery technology, fish pathology, biotechnology, biodiversity conservation, environmental management and fisheries extension. Through workshops, training programmes, research collaborations and outreach activities, it promotes knowledge exchange, capacity building and sustainable development of the fisheries and aquaculture sector.

Objective of the Workshop:

- To understand the basics of proteomics
- Learn key proteomic techniques and experimental procedures
- Learn protein extraction, quantification and sample preparation
- Understand the fundamentals of SDS-PAGE, 2D-PAGE and proteomics based on mass spectrometry
- Understand LC-MS/MS, protein identification and quantitative proteomics
- Search for bioinformatics resources for protein annotation and functional analysis
- Learn uses of proteomics in fish biology, aquaculture, fisheries and food science

Organizing Committee:



Chief Patron:

Professor Dipak Kumar Kar

Hon'ble Vice-Chancellor, Vidyasagar University



Patron

Professor Paresh Chandra Jana,

Dean, Faculty of Science, Vidyasagar University

Patron

Professor Bimal Prasanna Mohanty,

Adjunct Professor,

Department of Fishery Sciences, Vidyasagar University,

Professor, Biochemistry, IVSAH-SOA, Bhubaneswar &

Assistant Director General (Inland Fisheries) ICAR, New Delhi (Retd.)

President, SVBBI, Bhubaneswar

Patron

Professor Utpal Kumar Sar

Professor of Practice

Department of Fishery Sciences, Vidyasagar University

Director of Fisheries, Andaman & Nicobar Administration &

Additional Director of Fisheries (Retd.), Govt. of West Bengal



Convener

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Associate Professor & Head,

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Jt. Organizing Secretary

Dr. Sayan Mandal

Assistant Professor

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Treasurer

Dr. Babul Sasmal

Technical Assistant



Jt. Treasurer

Mr. Supriya Kumar Panda

Department Staff

Resource Persons/Guest Speakers

1. **Professor (Dr.) Bimal Prasanna Mohanty, FNAAS**
Former Assistant Director General of Fisheries (ICAR, New Delhi) & Adjunct Professor, Department of Fishery Sciences, Vidyasagar University
2. **Mr. Manas Bera**, Senior Technical Support Manager,
Thermo Fisher (Corporate), Kolkata
3. **Dr. Ashok Mohanty, FNAAS**, Director,
ICAR- Central Institute for Research on Cattle (CIRC), Meerut, UP
4. **Professor (Dr.) Sasmita Mohanty**,
Dept. of Biotechnology, Director CDC & Dean Faculty of Science,
Rama Devi Women's University, Bhubaneswar, Odisha
5. **Dr. Sudhir Roy**, Principal Scientist,
ICAR -National Institute of Animal Nutrition and Physiology (NIANP),
Adigudi, Bangalore, Karnataka
6. **Prof. Subhasis Batabyal**, General Secretary SVBBI,
CVSc& AH, WBUAFS, Belgachia, West Bengal
7. **Prof. Prakash Chandra Behera**, Head, Biochemistry,
IVSAH-SOA, Bhubaneswar
8. **Dr. Paarth Sarathi Behera**, Associate Professor (Biochemistry),
CVSc& AH - CAU, Aizawl, Mizoram
9. **Dr. Sagar Acharya**, Associate Professor & Head,
Dept. Zoology, Vidyasagar University
10. **Dr. Soma Bhattacharjee**, Assistant Professor,
Department of Zoology, Centre for Distance & Online Education
(CDOE), Vidyasagar University



Two-day Satellite Workshop on Application of Proteomics in Biosciences & Biotechnology

THEME

**Proteomics in Modern Biological Research:
From Molecules to Mechanisms**

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Midnapore, West Bengal**

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Biotechnologists of India (SVBBI),
Bhubaneswar**

September 10-11, 2026

**Dr. APJ Abdul Kalam Sabhakakshya,
Vidyasagar University**

RESOURCE PERSONS



Prof. Bimal Prasanna Mohanty, FNAAS

Adjunct Professor, Department of Fishery Sciences, Vidyasagar University,
Professor, Biochemistry, IVSAH-SOA, Bhubaneswar & Assistant Director
General (Inland Fisheries) ICAR, New Delhi (Retd)

**Lecture-1: Proteomics Technology: Applications in Biosciences and
Biotechnology**

Dr. Brijesh Pandey

General Manager- Technical, CMD (India & South Asia)
ThermoFisher Scientific India Pvt. Ltd. Kolkata



**Lecture-2: From Molecules to Biomarkers: Orbitrap HRMS
Applications in Biotechnology, Fisheries and Veterinary
Research**



Prof. Sasmita Mohanty

Dept. of Biotechnology, Director CDC &
Dean Faculty of Science,
Rama Devi Women's University, Bhubaneswar, Odisha

**Lecture-3: Transcriptomics and Functional Genomics of Heat
Stress in Teleosts**

Dr. Parthasarathi Behera

Associate Professor (Biochemistry),
CVSc & AH - CAU, Aizawl, Mizoram



**Lecture-4: Proteomic insights into Salmonella typhimurium
mutant during anaerobiosis**



Dr. Ashok Mohanty, FNAAS

Director,
ICAR- Central Institute for Research on Cattle (CIRC),
Meerut, UP

**Lecture-5: Deep proteomics of bovine mammary gland to understand
protein function in lactation**

Dr. Sudhir Chandra Roy

Principal Scientist,
ICAR -National Institute of Animal Nutrition and Physiology
(NIANP) Adigudi, Bangalore, Karnataka



**Lecture-6: Production and Application of Recombinant Buffalo
SPINK13 (rbu-SPINK13) for Enhanced Survival and
Fertility of Cryopreserved Buffalo Spermatozoa**



Prof. Subhasis Batabyal

General Secretary SVBBI, CVSc & AH,
Director of Research, Extension and Farms
WBUAFS, Belgachia, West Bengal



About the WORKSHOP

The two-day Satellite Workshop on "Application of Proteomics in Biosciences & Biotechnology" will focus on the theme "Proteomics in Modern Biological Research: From Molecules to Mechanisms." The workshop is being organized by the Department of Fishery Sciences, Vidyasagar University, in collaboration with SVBBI, Bhubaneswar. The workshop aims to provide participants with fundamental knowledge of proteomics and its applications in biological research. Participants will learn protein extraction, quantification, sample preparation and SDS-PAGE techniques. The programme will introduce 2D-PAGE, mass spectrometry and LC-MS/MS-based proteomics. Emphasis will also be given to protein identification, quantification and functional analysis. Participants will be introduced to bioinformatics tools and resources for protein annotation. Applications of proteomics in fish biology, aquaculture, fisheries and food science will also be highlighted. The workshop will further explore the integration of proteomics with genomics, transcriptomics and metabolomics for modern biological research.



Objective of the WORKSHOP



- To understand the basics of proteomics
- Learn key proteomic techniques and experimental procedures
- Learn protein extraction, quantification and sample preparation
- Understand the fundamentals of SDS-PAGE, 2D-PAGE and proteomics based on mass spectrometry
- Understand LC-MS/MS, protein identification and quantitative proteomics
- Search for bioinformatics resources for protein annotation and functional analysis
- Learn uses of proteomics in fish biology, aquaculture, fisheries and food science
- Learn about the integration of proteomics with genomics, transcriptomics and metabolomics

CONCEPT NOTE

Proteomics is a powerful modern approach for understanding proteins, their functions and interactions at the molecular level. Recent advances in proteomic technologies have opened new avenues in biosciences, biotechnology, health, agriculture, fisheries and aquaculture. The proposed workshop aims to provide participants with an overview of fundamental and advanced proteomic techniques. It will cover protein extraction, quantification, sample preparation, SDS-PAGE, 2D-PAGE and mass spectrometry. Applications of proteomics in biological sciences, aquaculture, fisheries and food science will be highlighted. The workshop will also discuss the integration of proteomics with genomics, transcriptomics and metabolomics. Through expert lectures and practical exposure, participants will gain a better understanding of proteomic workflows and applications. The programme will provide a platform for scientific learning, knowledge exchange and networking among students, researchers and faculty members.



Prof. Prakash Chandra Behera

Treasurer, SVBBI &
Head, Biochemistry, IVSAH-SOA, Bhubaneswar

Dr. Sagar Acharya

Associate Professor & Head,
Department of Zoology, Vidyasagar University



**Lecture-7: The Fundamentals of Western Blotting: A Step-by-Step
Practical Guide**



Dr. Soma Bhattacharjee

Assistant Professor, Department of Zoology,
Centre for Distance & Online Education (CDOE),
Vidyasagar University

**Lecture-8: Lens proteomics: Molecular insights into crystallins,
Aging and Cataractogenesis**

DEPARTMENT OF FISHERY SCIENCES



The Department of Fishery Sciences (formerly Department of Aquaculture Management and Technology), Vidyasagar University, was established in 2003 to impart quality education, promote research, and develop skilled human resources in Fisheries Science. Over the past two decades, the department has produced more than 600 postgraduate graduates, many of whom are serving in government organizations, universities, research institutes, and leading national and multinational aquaculture industries.

The department currently offers M.Sc. in Fisheries Science, M.F.Sc. in Aquaculture, and Ph.D. in Fisheries Sciences. Its programmes emphasize theoretical knowledge, practical training, field exposure, research, and industry interaction, with curricula aligned with contemporary academic and professional requirements.

The department has established research expertise in aquaculture, fish breeding and reproductive physiology, nutrition, fish health, aquatic microbiology, environmental management, fisheries biotechnology and fisheries extension. Faculty members actively contribute through research publications, doctoral supervision, collaborative projects, consultancy, and extension activities.

The department regularly organizes workshops, training programmes, seminars and skill-development initiatives for students, researchers, fish farmers, entrepreneurs and other stakeholders, contributing to the advancement of sustainable fisheries and aquaculture in the region.

ORGANIZING COMMITTEE



Chief Patron

Prof. Dipak Kumar Kar

Hon'ble Vice-Chancellor, Vidyasagar University

Patron(s)



Prof. Paresh Chandra Jana

Dean, Faculty of Science, Vidyasagar University

Prof. Bimal Prasanna Mohanty

President, SVBBI, Bhubaneswar, Adjunct Professor,
Department of Fishery Sciences, Vidyasagar University,
Professor, Biochemistry, IVSAH-SOA, Bhubaneswar &
Assistant Director General (Inland Fisheries) ICAR, New Delhi (Retd)



Prof. Utpal Kumar Sar

Professor of Practice
Department of Fishery Sciences, Vidyasagar University
Director of Fisheries, Andaman & Nicobar Administration &
Additional Director of Fisheries (Retd.), Govt. of West Bengal

Convener

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Organizing Secretaries

Dr. Joydev Maity

Associate Professor
Department of Fishery Sciences,
Vidyasagar University



Dr. Sayan Mandal

Assistant Professor
Department of Fishery Sciences,
Vidyasagar University



Treasurer



Dr. Babulal Sasmal

Technical Assistant



Mr. Supriya Kumar Panda

Department Staff

Jt. Treasurer



**SOCIETY OF VETERINARY BIOCHEMISTS AND
BIOTECHNOLOGISTS OF INDIA (SVBBI)**

(Regd. No.22912/122),

Bhubaneswar web: www.svbbi.in

The Society of Veterinary Biochemists and Biotechnologists of India (SVBBI) was established through the vision of eminent educators and scientists to promote the holistic development of Veterinary Biochemistry and Biotechnology in India. The Society provides a national platform for academic interaction, research advancement, professional development, and scientific collaboration.

SVBBI promotes academic and research excellence through National Conferences, Symposia, Annual Conventions, workshops, and scientific programmes, facilitating knowledge exchange and strategic development of the discipline. The Society recognizes outstanding contributions in teaching and research through various awards and fellowships. These include the Veterans' Award, Dr. L.N. Singh Lifetime Achievement Award, SVBBI Fellowship, Senior Scientist Award, Young Scientist Award, Best Teacher Award, Best Doctoral Thesis Award, and Best Master's Thesis Award. The awards encourage excellence in both basic and applied sciences in accordance with the One Health approach integrating animal, human, and ecosystem health.

SVBBI launched its official website in April 2024 and regularly publishes its Newsletter to facilitate communication and member engagement. The Society also aspires to establish its own scholarly journal, the Indian Journal of Veterinary Biochemistry and Biotechnology, to strengthen scientific communication and its academic presence. SVBBI remains committed to advancing Veterinary Biochemistry and Biotechnology, empowering researchers and professionals, fostering collaboration, and contributing to national and global scientific progress.



REGISTRATION DETAILS

Registration Link :

<https://forms.gle/8AdWPZGBHEoA6je48>



SCAN HERE

For any details regarding the Workshop, feel free to contact

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