



INTERNATIONAL CONFERENCE

ON

"TRANSLATING SCIENCE INTO SOLUTION: MULTIDISCIPLINARY APPROACHES TO REAL WORLD PROBLEMS"

(Online Mode)



16th & 17th January, 2026

Organized by

Department of Microbiology & Department of Biotechnology
Patna Women's College (Autonomous), Patna University, Patna, Bihar, India

4th Cycle NAAC Accredited at 'A++' Grade

In Collaboration with

School of Natural and Applied Sciences
Mount Carmel College (Autonomous), Bengaluru, Karnataka, India

Reaccredited 'A+' Grade by NAAC

Patrons



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Principal
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Patna University, Patna, India



Dr. George Lekha
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Bengaluru, India

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Co- Convener

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Assistant Professor
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Patna Women's College
(Autonomous)

Dr. Swetnisha
Assistant Professor
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Eminent Speakers



Dr. Amrendra Ajay
Harvard Medical School
Boston (MA), USA



Dr. Naresh Kumar
University of Antwerp, Belgium



Dr. Akila Parvathy Dharshini S
Stanford School of Medicine, USA



Nandini Bhogar Suresh
Ghent University, Belgium



Dr. Imtiaz Zafar
National Institute of Mental Health
and Neurosciences (NIMHANS),
Bangalore, INDIA



Dr. Supriya Sharma
National Institute of Biologicals
Noida, U.P



Dr. Ashwini Kumar Ray
Delhi University, Delhi
G H Fellow, NIH, USA



Registration link
<https://forms.gle/k726WYLMYdgoXXKT6>

CONFERENCE BACKGROUND AND THEME

The central theme of this **multidisciplinary conference** underscores how science can be translated into practical solutions for global challenges and human well-being by uniting multiple disciplines. Life sciences intersect with medicine, agriculture, environment, industry, and public policy, positioning them to drive sustainable and impactful outcomes. This conference provides a platform for researchers, academicians, industry experts, and students to explore how scientific discoveries can be transformed into innovations that benefit society. Through collaboration across fields such as microbiology, biotechnology, environmental sciences, engineering, and health sciences, it aims to narrow the gap between laboratory research and real-world applications. By promoting knowledge exchange and nurturing innovation, the conference encourages problem-solving approaches that strengthen resilience, sustainability, and overall quality of life.

THE SUB-THEMES TO BE DELIBERATED DURING THIS CONFERENCE INCLUDE

Microbes in Food, Agriculture, Nutrition Security Environment and sustainable Development	Synthetic Biology: Engineering Life for Tomorrow
Bioinformatics, Genomics, and Emerging Technologies in Biotechnology	Role of Artificial Intelligence in Healthcare, Agriculture and Climate Change
Integrating Indigenous Knowledge with Modern Therapeutic Research	From Data to Discovery: The Role of AI and Big Data in Modern Science
Biodiversity in Crisis: Scientific Strategies for Conservation	Computational Frontiers: Modelling, Algorithms, and Data Analytics
Vaccines and Immunotherapies: Next-Generation Strategies	Green Chemistry, Medicinal Chemistry, Drug Design and Sustainable Catalysis
Plant developmental and stress biology	Interdisciplinary Approaches in Modern Physical Sciences
Environmental Stress Biology and Global Sustainability	Synthetic Biology and Biotechnology for the 21st Century
Innovations and Interventions in Combating Anti-Microbial Resistance (AMR)	Transforming Discoveries into Enterprises

PATNA WOMEN'S COLLEGE (AUTONOMOUS), PATNA

Patna Women's College (Autonomous), a constituent unit of Patna University, is the first higher education institution for women in Bihar, founded in 1940 by Bishop B.J. Sullivan S.J. and Mother M. Josephine A.C. It is run by the Apostolic Carmel Sisters and has empowered thousands of women who now contribute across diverse fields in India and abroad. Re-accredited with NAAC A++ in 2024 in its fourth cycle, the college earlier earned consecutive NAAC 'A' grades, CPE status from UGC, autonomous status in 2018, and ISO 21001 certification in 2023. The institution offers holistic education through 30 UG, 12 PG and 4 PG Diploma programmes across major streams, supported by modern infrastructure. Recognized among India's top-performing colleges, it achieved 1st rank in Arts and 2nd in Science in the India Today-MDRA Best Colleges Survey 2025 and figures in the NIRF 101–150 rank band (2021, 2024, 2025).

MOUNT CARMEL COLLEGE, AUTONOMOUS

Mount Carmel College is the forerunner of holistic education envisioning the transformation of students to professionals. We focus on providing students with a conducive environment merged with state-of-the-art facilities and guidance from esteemed lecturers in the pursuit of humanising each student to participate in society as a responsible citizen, dynamic professional, and empathetic human. Our visionary endeavour, envisaged and promoted by our foundress, Mother Teresa of St. Rose of Lima, is to bask in the light of a "Civilization of love", i.e., the Kingdom of God by imparting knowledge and civilization.

DEPARTMENT OF MICROBIOLOGY, PATNA WOMEN'S COLLEGE, AUTONOMOUS

The Department of Microbiology at Patna Women's College, established in July 1994, is committed to excellence in education and research. It offers a B.Sc. Honours in Microbiology, a four-year degree programme aligned with NEP 2020, with a comprehensive syllabus emphasizing rigorous classroom teaching and intensive laboratory work. Students participate in summer training, internships and an Add-On Course in Bioinformatics to strengthen practical, computational and analytical skills. The department has a well-equipped laboratory with advanced instruments and experienced faculty, and regularly conducts hands-on training, workshops, seminars and research activities in cutting-edge areas of microbiology. Graduates are well prepared for careers in research and academia, healthcare, industry, and government or public sector organisations.

DEPARTMENT OF BIOTECHNOLOGY, PATNA WOMEN'S COLLEGE, AUTONOMOUS

The Department of Biotechnology at Patna Women's College (Autonomous) was founded in 2022 as part of the Faculty of Science to offer high-quality education in the biotechnology field and cultivate skilled biotechnology professionals. Offering a two-year M.Sc. Programme in Biotechnology, the department is dedicated to provide comprehensive education through innovative teaching methods, extracurricular activities, seminars, and workshops. Boasting experienced and well-qualified faculty members, the department's strength lies in its well-equipped lab with advanced instrumentation for research in Molecular Biology, Plant Biotechnology, Computational Biology, Environmental Biotechnology, and Nanobiotechnology. By providing hands-on training, guest lectures, workshops, and seminars on cutting-edge biotechnological research, the department nurtures scientific aptitude and skills in its students. Additionally, the Department of Biotechnology organizes industrial visits and educational tours to provide students with broad exposure opportunities.

SCHOOL OF NATURAL AND APPLIED SCIENCES, MOUNT CARMEL COLLEGE (AUTONOMOUS), BENGALURU

The stream of Sciences strives to instill students with inquisitiveness, perseverance, and enthusiasm in the field of Science. Each program within this stream has been designed to equip students with proficient skill sets to develop holistically and master the field through the guidance of esteemed faculty members. As this field is known to be dynamic and based on empirical experiments, students will follow a rigorous curriculum to imbibe the episteme at its optimum.

Conference Participation and Abstract Submission

The conference is open to all stakeholders in research and development, including faculty, industry experts, research scholars and students across the conference themes. Participants may submit a 250-word abstract in MS-Word (Times New Roman, 12 pt, 1.5 spacing) for oral presentation, indicating the relevant theme, and email it as an attachment to the Organizing Secretary by 30 November 2025, with the presenting author marked by an asterisk. A plagiarism report must accompany the full-length paper. English is the official language, and all accepted abstracts will appear in a souvenir. Selected full-length manuscripts will be published in a book with an ISBN.

Registration and Participation Guidelines

- Registration is compulsory; only registered participants can join via Zoom and receive e-certificates, provided they attend all sessions.
- The conference will be held entirely online, and each author and co-author must register separately and pay the applicable fee.
- Submission of a full-length paper is mandatory for presentation and certificate, and no changes to the paper or authorship are allowed after acceptance.
- Non-compliant submissions may be disqualified by the organizers, and selected papers will be published in an edited book with an ISBN.
- Registration link: <https://forms.gle/k726WYLMYdgoXXKT6>

Paper Submission Guidelines

- Full-length papers should be 3000–4000 words (excluding tables, graphs and charts), submitted in MS-Word, Times New Roman, 12 pt, 1.5 spacing.
- First page: title, author(s), affiliation(s) and contact details only; do not repeat author details elsewhere.
- Second page: abstract (250 words) with keywords; mark the principal author with an asterisk (*) and underline the presenting author.
- Tables, charts and graphs must be numbered with Arabic numerals and include sources at the bottom.
- Email abstract and full paper to tssmarp@gmail.com.

Poster Preparation and Presentation Guidelines

- Only E-posters in PDF format are accepted; printed posters or photos are not allowed.
- Poster abstract: 250 words, and the poster title must match the submitted abstract.
- Each poster must display the paper title, author name(s) and affiliation(s) at the top, use English language, and follow a structured format (e.g., Introduction, Methods, Results, Conclusions).
- Clearly specify the conference theme/track under which the poster should be included.

REGISTRATION FEE

Category		Early Bird Registration	Late Bird Registration
Scientists, Academicians and Faculty		Rs. 600/-	Rs. 800/-
Industry Participants		Rs 1000/-	Rs 1200/-
Research Scholars		Rs. 500/-	Rs. 800/-
Students	(Oral/Poster Presenter)	Rs. 150/-	Rs. 250/-
	Only participation	Rs. 100	Rs. 200/-
Foreign Delegates		15 USD	20 USD

MODE OF PAYMENT: DEMAND DRAFT / RTGS / NEFT / UPI

All Delegates Should Pay Register Fee in Favor of PRINCIPAL_PWC Payable at BANK OF BARODA Branch, Patna Women's College, Bailey Road, Patna.

ACCOUNT DETAILS

Account Name : PRINCIPAL_PWC

Account Name : 85970200000018

IFSC Code : BARB0VJPAWC (The fifth character is a zero) | Bank : BANK OF BARODA

Branch : Patna Women's College Branch, Bailey Road, Patna, Bihar, India

ADVISORY COMMITTEE

- Dr. Sister M. Jincy A.C., Supervisor, Avila Convent, Patna Women's College Autonomous, Patna.
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- Dr. Santosh Kumar Karn, Associate Professor, Department of Biotechnology and Biochemistry. S.B.S.U. University, Dehradun.
- Prof. Indra Nath Mishra, Former Coordinator, Department of Biotechnology, Lalit Narayan Mishra University, Darbhanga.
- Dr. Kumar Siddharth Singh, Chief Manager Bio NEST, Incubation Centre, IIT Patna.

IMPORTANT DATES

Registration	Starting Date: November, 29, 2025 Last Date: December, 13, 2025
Abstract submission	Up to December 13 th , 2025
Acceptance of abstract	Up to December, 17 th , 2025
Manuscript submission	Up to January, 03 rd , 2026
Conference	January 16 th & 17 th , 2026

FOR FURTHER DETAILS

Contact Details:

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ORGANIZING COMMITTEE

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