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#### Registration Fee (Incl. of GST)

Offline Participation: Rs. 500

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2<sup>nd</sup> International Symposium  
on

## RESEARCH METHODOLOGY: HYPOTHESIS TO CITATION

Date: 01 February 2025 | Time: 09.30 am-04.30 pm

Venue: Valluvar Hall, PMIST

Organized by

**THE OFFICE OF RESEARCH & DEVELOPMENT**

In Association with

**DEPARTMENT OF BIOTECHNOLOGY**

Periyar Maniammai Institute of Science & Technology

(Deemed to be University), Thanjavur 613403, India

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## OVERVIEW OF THE SYMPOSIUM

The legitimacy of scientific investigations relies on research methodologies, indexed publications, scientific ethics, innovations, and global collaboration. These components ensure the integrity, accountability, and transparency of science. Artificial intelligence and machine learning must be used carefully to preserve research integrity and quality.



Ethical challenges, such as data manipulation and authorship disputes, must be addressed to ensure responsible scientific progress. This intersection is crucial for shaping academia, catalyzing international collaboration, and building public confidence in the scientific community. Quality, impact, and global collaboration are prioritized in publications, citations, and institution rankings. The future of education and discovery is shaped by innovation, interdisciplinary research, ethical standards, and societal relevance. Henceforth, Periyar Maniammai Institute of Science & Technology (Deemed to be University), India organizes this International Symposium.

## PROGRAMME SCHEDULE



### Session 1 - 10:00 am - 10:15 am

#### ACADEMIC RESEARCH: A PILLAR OF SOCIETAL GROWTH AND TRANSFORMATION

##### Dr. P.K. SRIVIDHYA

Registrar, Periyar Maniammai Institute of Science & Technology, (Deemed to be University), Thanjavur, India



### Session 2 - 10:15 am - 11:00 am

#### CREATIVITY AND THINKING PARADIGMS IN FORMULATING RESEARCH QUESTIONS AND DESIGNING HYPOTHESIS-DRIVEN RESEARCH PROPOSALS OR PROTOCOLS

##### Dr. G. JAGADEESH

Formerly, Senior Expert Pharmacologist, Division of Pharmacology & Toxicology, Office of Cardiology, Hematology, Endocrinology, and Nephrology, Center for Drug Evaluation and Research, US Food and Drug Administration, Maryland, USA



### Session 3 - 11:00 am - 11:30 am

#### EXPERIMENTAL RESEARCH: EXPECTING THE UNEXPECTED

##### Dr. ARASU CHELLIAH

Professor, University of Maryland, Baltimore, USA



### Session 4 - 11:45 am - 12:15 pm

#### BEST PRACTICES IN LITERATURE SEARCH AND DATA COLLECTION USING AI/ML: ENSURING QUALITY AND INTEGRITY IN SCIENTIFIC RESEARCH

##### Dr. MURUGAN THANGIAH

SLAS-Department of Liberal Arts & Humanities, Faculty of Social Sciences & Leisure Management, Taylor's University, Selangor, Malaysia



### Session 5 (12:15 pm - 12:45 pm)

#### UNLOCKING RESEARCH SUCCESS: MASTERING THE ART OF CHOOSING BETWEEN QUANTITATIVE, QUALITATIVE, AND MIXED RESEARCH APPROACHES

##### Dr. RENUKHA SELLAPPANS

Head, School of Pharmacy, Faculty of Health and Medical Sciences, Taylor's University, Selangor, Malaysia



### Session 6 (01:45 pm - 02:15 pm)

#### CRAFTING A WORLD-CLASS MANUSCRIPT: HOW TO AVOID DESK REJECTION OF YOUR MANUSCRIPT

##### Dr. BALAKUMAR PITCHAI

Professor & Director, RT&P-The Office of Research & Development, Periyar Maniammai Institute of Science & Technology (Deemed to be University), Thanjavur, India



### Session 7 - 02:15 pm - 02:45 pm

#### TRUTH AND TRANSPARENCY IN RESPONSIBLE SCIENCE: ETHICS IN SCIENTIFIC RESEARCH AND SCHOLARLY PUBLISHING

##### Dr. SHUBHADA NAGARKAR

Department of Library and Information Science, Coordinator, Centre for Publication Ethics, Savitribai Phule Pune University, Pune, India



### Session 8 - 03:00 pm - 03:30 pm

#### SHAPING TOMORROW'S ACADEMIA: THE EVOLVING METRICS OF PUBLICATIONS, CITATIONS AND UNIVERSITY RANKINGS

##### Dr. HEMA SUBRAMONIAN

Head, Centre for Higher Degrees by Research (CHDR), Taylor's University, Selangor, Malaysia



### Session 9 - 03:30 pm - 04:00 pm

#### CATALYZING INTERNATIONAL COLLABORATION: STRATEGIES FOR ACHIEVING HIGH-IMPACT ACADEMIC RESEARCH OUTCOMES

##### Dr. SARAVANAN PANDIARAJ

Department of Self Development Skills-Exam Center Supervisor, CFY Deanship, King Saud University, Riyadh, Kingdom of Saudi Arabia

## TARGET AUDIENCE

Postgraduates, pre- and postdoctoral fellows, researchers, and faculties of biomedical, engineering, pharmacy, computer science, architecture, management, science and arts, and delegates from industry.