

Dr. Muthukumar SP

Chief Scientist & Professor, Department of Biochemistry (CSIR-CFTRI)

Biochemistry, Food Safety & Toxicology, Laboratory Animal Sciences, Nutritional Biochemistry, Translational Biomedical Research



Educational & Academic Background

- M.V.Sc and Ph.D in Poultry Science, (Animal biochemistry, nutrition, genetics, and food science)
- Postgraduate Diploma in Agricultural Marketing,

Fellow of the Royal Society of Biology (UK)

- Fellow of Society for Applied Biotechnology (FSAB)
- Fellow of Laboratory Animal Scientists Association (India)
- Fellow of National Environmental Science Academy (NESA)
- Fellow of Indian Association for Advancement of Veterinary Research

Scientific Leadership

- 25+ years of extensive experience across academia, government, and premier research institutions:
- Chief Scientist (Scientist 'G') & Professor, CSIR-CFTRI, Mysore (Present)
- Former Senior Principal Scientist, Principal Scientist, and Senior Scientist at CSIR-CFTRI
- Technical Officer at CSIR-Institute of Genomics and Integrative Biology
- Veterinary Surgeon, Government of Kerala
- Senior Research Fellow at ICAR-Central Avian Research Institute
- Led and coordinated advanced research programs, including animal house facility management, ensuring compliance with national and international ethical standards.

Contributions in Biomedical & Translational Research

- **Laboratory Animal Science & Ethics**

Extensive experience in animal experimentation, welfare, and ethical compliance, serving as CPCSEA nominee for over 25 Institutional Animal Ethics Committees (IAECs) across India.

- **Food Safety, Toxicology & Nutritional Biochemistry**

Significant contributions in food safety regulations, toxicological evaluation, and biochemical analysis, supporting public health and regulatory frameworks

- **Translational Research & Innovation**

Active involvement in 40+ completed and ongoing research projects, focusing on applied biochemistry, nutrition, and food systems.

- **Capacity Building & Training**

Conducted numerous training programs on laboratory animal techniques, ethics, and welfare, and trained PhD scholars, researchers, and technical staff.

Publications, Patents & Research Output

- 95 research publications in peer-reviewed journals
- 4 patents
- 102 research abstracts, 5 book chapters, and multiple technical articles
- Guided PhD scholars and 42 postgraduate dissertations

Editorial & Peer Review Contributions

- **Editor** for reputed journals including Scientific Reports, Frontiers in Immunology, Frontiers in Nutrition, and others
- **Reviewer** for 60+ high-impact international journals in food science, biochemistry, toxicology, and nanomedicine

Awards & Recognition

- Prof. Jiwan Singh Siddu Award (2023) – Teacher Par Excellence
- Fellowships from leading scientific bodies (RSB, NESA, LASA, etc.)
- Best Research Paper Award (CFTRI)
- Multiple Best Poster Awards and International Travel Grants
- Recognized mentor for prestigious fellowships (PMFDR, DAAD, Overseas Doctoral Programs)

Memberships & Leadership Roles

- Vice President Association of Food Scientists and Technologists of India
- Executive Member, Federation of Asian Biotech Associations
- Member, FSSAI Scientific Panel on Biological Hazards
- Member, Bureau of Indian Standards (Apiary Industry Committee)
- Active member of multiple national and international scientific bodies

Professional Experience

- **Expertise in Animal Ethics & Regulatory Compliance**

Extensive involvement with CPCSEA and IAEC frameworks ensures strong oversight of animal research ethics.

- **Food Safety & Public Health Perspective**

Deep understanding of toxicology, safety evaluation, and regulatory science.

- **Research Governance & Scientific Evaluation**

Proven ability to critically assess research protocols, ensuring ethical integrity, scientific validity, and compliance.

- **Training & Capacity Building**

Leadership in educating researchers on ethical practices, laboratory standards, and regulatory requirements