



SCIENTIFIC PROGRAMME SCHEDULE

5th ANNUAL CONFERENCE OF SAAE-INDIA [SAAE-I 2022] - CONFERENCE ON ALTERNATIVES TO ANIMAL EXPERIMENTS IN TRANSLATIONAL RESEARCH 8th - 9th December 2022

Organized by: Indian Society for Alternatives to Animal Experiments (SAAE-I) | Dept. of Zoology, University of Kerala | Sree Chitra Tirunal Institute For Medical Sciences And Technology (SCTIMST) | Advanced Centre For Regenerative Medicine And Stem Cell Research In Cutaneous Biology (AcREM-Stem)

In Association with: Kerala Academy Of Sciences | Society For Translational Cancer Research | Society For Nutraceuticals And Chronic Diseases | Association of British Scholars-Thiruvananthapuram-Chapter

Thursday, Dec 8th, 2022

08.00 am-09.00 am: **Breakfast**

08.30 am-09.30 am: **Registration**

09.30 am-11.10 am: **Plenary Talks: Chairpersons: Dr. Vijay Pal Singh (IGIB, New Delhi) & Prof. C. R. Patil (Dept. of Pharmacology, R C Patel Institute, Shirpur, Maharashtra)**

09.30 am-09.55 am: **PL1: Prof. Y.K. Gupta (President, AIIMS-Bhopal & Jammu & President, SAAE-India)**
Title: "Alternate to animal experimentation: need, challenges, strategies and way forward, an Indian perspective"

09.55 am-10.20 am: **PL2: Prof. Upendra Nongthomba (Chair-MRDG, IISC, Bangalore)**
Title: "Fruitfly (*Drosophila melanogaster*) and Zebrafish (*Danio rerio*) as models for studying human diseases or disorders and drug discovery"

10.20 am-10.45 am: **PL3: Prof. Raisuddin (Dean, School of Chemical & Life Sciences, Jamia Hamdard)**
Title: "Technological Interventions in Alternatives in Toxicity Testing"

10.45 am-11.10 am: **PL4: Prof. Chandrabhas Narayana, (Director, RGCB, Thiruvananthapuram)**
Title: "Raman as a diagnostic and cellular non-invasive probe."

Dr. Dipti M. Kapoor Endowment Award Ceremony & Lecture

11.10 am-11.30 am: Chairpersons: Prof. Dr. M.A. Akbarsha (General Secretary-SAAE-India) & Dr. Ankita Pandey (Science Policy Advisor, PeTA-India)

Dr. Shilpy Sharma (DBT-Ramalingaswami Fellow, Department of Biotechnology, University of Pune)
Title: “Alternatives to animal experiments for dissecting the pathophysiology of Type 2 Diabetes mellitus and associated metabolic disorders.”

11.30 am-11.45 am: **Tea/Coffee Break**

11.45 am-12.45 pm: **Inaugural Program**
Group Photo Session

12.45 pm-13.45 pm: **Lunch Break**

13.15 pm-15.05 pm: **Poster Presentation**

13.45 pm-15.25 pm: **Technical session 1: *In vitro* systems for Translational & Clinical research**
Chairperson: **Prof. P.R Sudhakaran** (Former Head, Dept. of Biochemistry, University of Kerala) & **Prof. M. Micheal Aruldas** (Former Head, Dept. of Endocrinology, University of Madras)

13:45 pm-14:05 pm: **IL1: Prof. Renu John** (Dept. of Biomedical Engineering, IIT, Hyderabad)
Title: “3-D imaging of cellular constructs and Organoids on microfluidic platforms: Applications and Challenges”

14.05 pm-14.25 pm: **IL2: Dr. Anilkumar P R** (Scientist G, SCTIMST, Thiruvananthapuram)
Title: “In vitro three-dimensional hepatotoxicity test platform: Development and validation as an alternative system”

14.25 pm-14.45 pm: **IL3: Prof. Shanmugam Dhinakaran** (Dept. of Mechanical Engineering, IIT, Indore)
Title: “Applications of Computational Fluid Dynamics in Biological Sciences”

14:45 pm-15:05 pm: **IL4: Dr. J Ponmozhi** (Assoc. Prof., IPS Academy, Institute of Engineering & Science, Indore, Madhya Pradesh)
Title: “Fabrication of healthy and diseased biological barriers in lab-on-chips for disease diagnosis and drug evaluation”

15.05 pm-15.25 pm: **IL5: Dr. Prajakta Dandekar Jain** (Asst. Prof., Dept. of Pharmaceutical Sciences and Technology, ICT, Mumbai)
Title: “3D mono- and co-culture spheroids for preclinical research in anti-cancer therapies”

15.25 pm-15.40 pm: **Tea/Coffee Break**

15.40 pm-16.40 pm: **Technical session 2: Drosophila: Powerful Alternative Model Organism for Translational Research**
Chairpersons: **Dr. Harikrishnan V. S.** (Scientist, 'F', SCTIMST, Thiruvananthapuram) & **Dr. Benno Perieria F.G** (Asst.Prof., Dept. of Zoology, University of Kerala)

15.40 pm-16.00 pm: **IL6: Dr. Yasir Hasan Siddique** (Assoc. Prof. Dept. of Zoology, Aligarh Muslim University)
Title: “*Drosophila melanogaster* as a research model”

16.00 pm-16.20 pm: **IL7: Dr. Rajaguru Aradhya** (Asst. Professor, Amritha Viswa Vidhyapeetham)
Title: “Fruitfly, an alternative and reliable system to replace vertebrate animal models”

16.20 pm-16.40 pm: **IL8: Dr. H. P. Gurushankara** (Asst. Prof. Central University of Kerala)
Title: “*Drosophila melanogaster* as a model organism for neuro behavioural studies”

16.40 pm–17.50 pm: **Plenary Talks:** **Chairpersons: Dr.Sabareeswaran** (Scientist G, SCTIMST, Thiruvananthapuram & **Guruvayurappan** (Assoc. Prof. RCC, Thiruvananthapuram)

16.40 pm-17.05 pm: **PL5: Dr. Rahul Date** (Jai Research Foundation, Vapi, Gujarat)
Title: “Experimentally validated in-silico approach to predict the skin sensitization potential of phytochemicals”

17.05 pm-17.30 pm: **PL6: Dr. Thomas Hartung** (Doerenkamp-Zbinden Chair, Environmental Health, and Engineering, Bloomberg School of Public Health. John Hopkin University, USA)
Title: “Towards toxicology for the 21st Century”

17.30 pm-17.55 pm: **PL7: Dr. Lena Smirnova** (Asst. Prof. Center of Alternatives to Animal Testing, Johns Hopkins University, USA)
Title: “From MPS research to International Society”

18.00 pm-19.00 pm: **General Body Meeting**

19.00 pm- 20.30 pm: **Cultural Program**

20.30 pm- 21.30 pm: **Dinner**

Friday, Dec 9th, 2022

08.00 am-09.00 am: **Breakfast**

09.00 am-10.50 am: **Plenary Talks:** **Chairpersons: Prof. Helen** (Head, Dept. of Biochemistry, University of Kerala) & **Dr. Sachin J Shenoy**, (Scientist F, SCTIMST, Thiruvananthapuram)

09.00am-09.25am: **PL8: Prof. Yasunari Kanda** (National Institute of Health Sciences, Japan Division of Pharmacology)
Title: “Current status and future perspectives of cardiotoxicity testing using human iPSC cardiomyocytes”

09.25 am-09.50 am: **PL9: Prof. Hajime Kojima** (Secretary, JaCVAM; National Institute of Health Sciences, Japan)
Title: “JaCVAM activities for motivating the Indian Scientists”

09.50 am -10.15 am: **PL10: Dr. B. Satheesan**, (Director, Malabar Cancer Centre)
Title: “Non-animal methods of drug development and testing in cancer”

10.15 am -10.50 am: **PL11: Dr. Subrahmanyam Vangala** (Chief Executive Officer & Cofounder, ReaGene Biosciences Private Limited, Bangalore, India)
Title: “Clinical translation of efficacy using 3D bioprinted human models”

10. 50 am-11.05 am: **Tea/Coffee Break**

11. 05 am-12.05 pm: **Technical session 4: Importance of the 3R’s in Scientific Research**
Chairpersons: Dr. Divya. L (Assoc. Prof. Dept. of Zoology, University of Calicut & **Dr.K.B Rameshkumar** (Senior Scientist, JNTBGRI. Thiruvananthapuram)

11.05 am-11.25 am: **IL9.” Dr. Karthikeyan Vasudevan** (Chief Scientist, LaCONE, CCMB)
Title: “Implementation of 3 R in treatment of snake envenomation in India. Polyvalent Antivenom-Snake”

- 11.25 am-11.45 am: **IL10: Prof. Sameer Kumar**, (Dept. of Genomic Science, Central University of Kerala)
Title: “Use of chick embryo model to study angiogenesis”
- 11.45 am-12.05 pm: **IL11. Dr. Ankita Pandey** (Science Policy Advisor, PeTA-India)
Title: “Replacing Fetal Bovine Serum in Cell Culture applications”
- 12.10 pm-13.25 pm: **Technical session 5: Alternative Mammalian Models for Disease & Toxicity Testing**
Chairpersons: **Prof. Mini. S.** (Professor, Dept. of Biochemistry, University of Kerala) &
Dr. B. Kadalmani (Assoc.Prof., Dept. of Animal Science, BDU, Trichy)
- 12.05 pm-12.25 pm: **IL12: Prof. Suraj Unniappan** (Dept. of Veterinary Biomedical Sciences, Western
College of Veterinary Medicine, University of Saskatchewan, Canada)
Title: “The Three Rs in Research and Teaching: Perspectives of a Western Canadian
Veterinary College”
- 12.25 pm-12.45 pm: **IL13: Dr. Kajal Chakraborty** (Principal Scientist, CMFRI, Cochin Unit)
Title: “Development of bioactive compounds from marine organisms: Whether there are
alternatives to animal experiments?”
- 12.45 pm -13:05 pm: **IL14: Dr. Muhammad Idris** (Principal Scientist, CCMB-Hyderabad)
Title: “Zebrafish - A potential vertebrate model to study Development and Disease”
- 13.05 pm -13.25 pm: **IL15: Prof. C. R. Patil** (Department of Pharmacology, R C Patel Institute, Shirpur,
Maharashtra)
Title: “Teaching Experimental Pharmacology: Prospects for HEIs for the next decade”
- 13.25 pm -14.15 pm: **Lunch Break**
- 14.15 pm-15.45 pm: **Oral Presentations**
Chairpersons: **Dr. V. Gayathri** (Senior Scientist, JNTBGRI, Thiruvananthapuram)
Dr. Jayamurthy. P (Senior Scientist; CSIR-NIIST, Thiruvananthapuram)
Dr. Renjith P. Nair (Scientist 'C', SCTIMST, Thiruvananthapuram)
- 15.45 pm-16.45 pm: **Round table Discussion: Moderator: Prof./Dr. Y.K. Gupta** (President, SAAE-India)
Dr. Vijay Pal Singh (IGIB, New Delhi)
Dr. Subrahmanyam Vangala (Chief Executive Officer & Cofounder, ReaGene
Biosciences Private Limited, Bangalore, India)
Dr. Raisuddin (Dean, School of Chemical & Life Sciences, Jamia Hamdard)
Dr. Muhammad Idris (Principal scientist, CCMB-Hyderabad)
Dr. Karthikeyan Vasudevan (Chief Scientist, LaCONE, CCMB)
Dr. Ankita Pandey (Science Policy Advisor, PETA-India)
Dr. V. Jithesh (Executive Director, State Health Systems Resource Centre, Kerala)
Dr. Rahul Date (Jai Research Foundation, Gujarat)
- 16.45 pm-15.00 pm: **Tea/Coffee**
- 15.00 pm -15.45 pm: Valedictory Session & Awards ceremony**
National Anthem