

**4<sup>th</sup> Asian Congress for Alternatives to Animal Experiments (4ACAAE) on Non-animal Approaches: Concept, Validation and Regulatory Acceptance**  
**&**  
**7<sup>th</sup> Annual Conference of Society for Alternatives to Animal Experiments -India**

**December 12-14, 2024**  
**Jamia Hamdard (Deemed to be University)**  
**New Delhi 110062, India**

**PROGRAMME SCHEDULE**

**Day 01 (December 12, 2024- Thursday)**

<b>TIME</b>	<b>EVENT</b>	<b>VENUE</b>
8.30 am - onward	<b>REGISTRATION</b>	Hamdard Convention Centre
10.00 - 11.30 am	<b>INAUGURAL SESSION</b>	Hamdard Convention Centre
11.30 am - 12.00 pm	<b>HIGH TEA/COFFEE BREAK &amp; NETWORKING</b>	
12.00 - 12.30 pm	<b>PLENARY LECTURE SESSION</b>  Chairperson: Prof. Y.K. Gupta, President SAAE- India  Co-chairperson: Dr. Adip Roy, Amway, Gurugram, India  Moderator: Dr. Nidhi, Department of Translational & Clinical Research, Jamia Hamdard, New Delhi	Hamdard Convention Centre
	<b>PL1- PLENARY LECTURE</b>  Speaker: Troy Seidle, Vice President, Humane Society International (HSI), Washington, District of Columbia, USA  Toward animal-free science globally	
12.30 - 12.45 pm	<b>HSI- MASTERCLASS IN ANIMAL- FREE SAFETY ASSESSMENT (AFSA)</b>	Hamdard Convention Centre

12.45 - 1.45 pm	<p><b>DR. DIPTI M. KAPOOR ENDOWMENT AWARD CEREMONY</b></p> <ul style="list-style-type: none"> <li>• Dr. Y.K.Gupta (Chairperson)</li> <li>• Dr. Ankita Pandey, PeTA “Life and work of Dr. Deepti M. Kapoor”</li> <li>• Dr. M.A. Akbarsha “About the Award and announcement of the Awardee”</li> </ul> <p><b>Dr. Dipti M. Kapoor Endowment Award Lecture by the Awardee (Dr. Parajkta Dandekar Jain, Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Mumbai, India)</b></p> <p>Advancing lung disease research: Innovative alternative-to-animal models for testing anti-cancer and anti-infection therapies</p>	Hamdard Convention Centre
1.45 - 2.25 pm	<b>LUNCH BREAK</b>	
2.30 pm onward	<p><b>1) POSTER SESSION - I</b></p> <p>Coordinators: Dr. Basir Ahmad; Dr. Shahzad Ahmad; Dr. Mehjabeen Javed, Department of Medical Elementology &amp; Toxicology, Jamia Hamdard, New Delhi, India</p> <p><b>2) MAAtTek AWARD POSTER PRESENTATIONS</b></p> <p><b>PMA1- Presenter: Bitan Guchhait, National Institute of Pharmaceutical Education and Research, Kolkata</b></p> <p>Macromolecular crowding mediated development of cell-derived matrix scaffold: drug resistance to 3D in-vitro disease modelling</p> <p><b>PMA2- Presenter: Vaishnavi Madasu, National Institute of Pharmaceutical Education and Research, NIPER-Kolkata</b></p> <p>BMSC and triple-negative breast cancer cell homing: Development of stable 3D in-vitro EMT model</p> <p><b>PMA3- Presenter: Anshul Bhide, Molecular and Cellular Biology Laboratory, ICMR-National Institute for Research in Reproductive and Child Health, Mumbai</b></p> <p>An organ-on-chip device simulating terminal villi for investigating the barrier function of human placenta</p> <p><b>PMA4- Presenter: Mohd. Anas Saifi, Department of Medical Elementology &amp; Toxicology, SCLS, Jamia Hamdard, New Delhi</b></p>	Hamdard Convention Centre

In-silico evaluation of gastrodin neuroprotection against bisphenol A-induced ADHD-like symptoms

**PMA5- Presenter: Garima Jindal, Department of Medical Elementology & Toxicology, SCLS, Jamia Hamdard, New Delhi**

Myelin sheath disruption in Zebrafish larvae exposed to the Di-ethyl hexyl phthalate

**PMA6-Presenter: Adib Khan, Department of Biotechnology, SCLS, Jamia Hamdard, New Delhi**

RNA based anti-Dengue vaccine to elevate CTL response: Design and Immunological response prediction

**PMA7-Presenter: Ranjita Rajesh Save, Ramnarain Ruia Autonomous College L. Napoo Road Matunga East Mumbai**

An in vitro model mimicking skin rigidity to study diabetic wounds

**PMA8- Speaker: Zuber Khan, Division of Neuroscience, Department of Pharmacology, ISF College of Pharmacy, Moga, Punjab**

Neuroprotective Mechanism of 4-hydroxyisoleucine and alpha-mangostin in multiple sclerosis: Evidence from in-silico analysis

**PMA9- Speaker: Alka Sahu, Centre for Cellular and Molecular Biology, Hyderabad**

Implementation of reduction and replacement under 3Rs in antivenom quality testing

**PMA10-Presenter: Angel Mary Arulanandu, Bharathidasan University, Tiruchirappalli, Tamil Nadu**

Ecotoxicological profiling of atrazine herbicide: A novel approach using *Hydra magnipapillata* as an alternative animal mode

**PMA11-Presenter: Pradheena Vairaganthan, Bharathidasan University, Tiruchirappalli, Tamil Nadu**

Understanding dysregulation of human endometrial regeneration by endocrine disruptors: Use of regeneration in hydra as a model

**PMA12-Presenter: Sumit Choudhary, Department of Medical Elementology & Toxicology, SCLS, Jamia Hamdard, New Delhi**

	Developmental and vision toxicity of pyriproxyfen in zebrafish larvae, a competent alternative model for vision toxicity evaluation	
2.30 - 3.00 pm	<p><b>PLENARY LECTURE SESSION</b></p> <p>Chairperson: Prof. Shakir Ali, Department of Biochemistry, Jamia Hamdard, New Delhi, India</p> <p>Co-chairperson: Prof. A. Selvapandiyan, Department of Molecular Medicine, Jamia Hamdard, New Delhi, India</p> <p>Moderator: Dr. Saurabh Pandey, Department of Biochemistry, Jamia Hamdard, New Delhi, India</p>	Hamdard Convention Centre
	<p><b>PL2- PLENARY LECTURE</b></p> <p><b>Speaker: Dr Helena Kand'árová, Institute of Experimental Pharmacology &amp; Toxicology, Bratislava, Slovak Republic; President, ESTIV</b></p> <p>Global Progress Through Collaboration: The role of validation projects in advancing NAMs in toxicology and related sciences</p>	
3.00 - 4.20 pm	<p><b>KEYNOTE LECTURE SESSION</b></p> <p>Chairperson: Prof. S.Z. Rahman, JN Medical College, Aligarh Muslim University, Aligarh, India</p> <p>Co-chairpersons:</p> <p>i) Prof. C.R. Patil, RC Patel Institute of Pharma Education and Research, Shirapur, Maharashtra</p> <p>ii) Dr. L. Divya, Department of Zoology, Calicut University, Calicut, India</p> <p>Moderator: Dr. S. Ikmal Murtaza, IQAC, Jamia Hamdard, New Delhi, India</p>	Hamdard Convention Centre
	<p><b>KEYNOTE SPEAKERS</b></p> <p><b>KL1- Speaker: Prof. Yasuyuki Sakai, Professor, Department of Chemical System Engineering and co-appointed professor at Department of Bioengineering, University of Tokyo, Japan</b></p> <p>Toward development of physiological <i>in vitro</i> liver tissues for toxicity testing and disease modelling</p>	

	<p><b>KL2- Speaker: Kristie Sullivan, Vice President, Education and Outreach, Institute for In Vitro Sciences, Inc., Gaithersburg, MD, USA; Secretary, ASCCT</b></p> <p>Learning by Doing: Gaining confidence in new approaches for regulatory decision-making and risk assessment</p> <p><b>KL3- Speaker: Dr. Christian Pellevoisin, Scientific Director, MatTek, USA &amp; CEO Urbilateria, France</b></p> <p>Importance of standardization in animal replacement: Success story of local toxicity endpoints and challenges for systemic toxicity</p> <p><b>KL4- Speaker: Prof. Dipl.-Ing. Dr. Winfried Neuhaus, Austrian Institute of Technology GmbH, Center Health and Bioresources Competence Unit Molecular Diagnostics, Giefinggasse, Wien, Austria; President, EUSAAT</b></p> <p>Overview about recent European 3Rs activities with a focus on 3Rs centres</p>	
4.20 -4.40 pm	<b>TEA/COFFEE BREAK</b>	
4.40 - 6.10 pm	<p><b>SPONSORED SESSION - CENTRE FOR PREDICTIVE HUMAN MODEL SYSTEMS (CPHMS), CSIR-CENTRE FOR CELLULAR &amp; MOLECULAR BIOLOGY (CCMB), HYDERABAD, INDIA</b></p> <p><b>Topic:</b> Advancing the adoption of NAMs in biomedical research</p> <p><b>MODERATOR - CONVENER</b></p> <p><b>Dr. Kasturi Mahadik, CSIR- Centre for Cellular &amp; Molecular Biology (CCMB), Hyderabad, India</b></p> <p><b>EXPERTS</b></p> <ol style="list-style-type: none"> <li>1. <b>Dr. Arunkumar Palaniappan, Vellore Institute of Technology, Tamil Nadu</b></li> <li>2. <b>Dr. Shilpy Sharma, Savitribai Phule Pune University, Pune</b></li> <li>3. <b>Dr. Madhusudhana Rao, CEO, Atal Incubation Centre, Centre for Cellular &amp; Molecular Biology (AIC-CCMB), Hyderabad</b></li> <li>4. <b>Dr. Anupama Kumari, Institute of Liver and Biliary Sciences, New Delhi</b></li> <li>5. <b>Dr. Archana Singh, CSIR- Institute of Genomics and Integrative Biology (IGIB), New Delhi</b></li> </ol>	Hamdard Convention Centre

6.30 - 7.30 pm	CULTURAL PROGRAMME	Hakim Abdul Hameed Auditorium
8.00 pm onward	CONGRESS DINNER	
	<b>DAY 01 CLOSES</b>	

## Day 02 (December 13, 2024- Friday)

TIME	EVENT	VENUE
9.00 am - onward	<b>REGISTRATION</b>	Hamdard Convention Centre
9.30 - 11.30 am	<p><b>LAUNCHING OF THE ASIAN FEDERATION OF SOCIETIES FOR ALTERNATIVES TO ANIMAL EXPERIMENTS (AFSAAE)</b></p> <p>Ceremony will be introduced and conducted by Dr. Masato Hatao, Secretary General Designate, AFSAAE &amp; Principal Scientist/Managing Director - Japan Cosmetic Industry Association (JCIA), Tokyo, Japan</p> <p>Chairperson: Prof. Yasuyuki Sakai, President Designate AFSAAE; Professor, Department of Chemical System Engineering and co-appointed professor at Department of Bioengineering, University of Tokyo, Japan: Declaration of the launching of the Federation</p> <p><b>FELICITATIONS (each member will speak briefly and will be felicitated by the SAAE-India and Organizing Committee - 4ACAAE)</b></p> <ol style="list-style-type: none"> <li>1. Dr. Hajime Kojima, National Institute of Health Sciences, Kawasaki, Japan representing JSAAE &amp; Japanese Center for the Validation of Alternative Methods - JaCVAM (online)</li> <li>2. Dr. Masato Hatao, Secretary General Designate, AFSAAE Topic: AFSAAE: A narrative</li> <li>3. Prof. Bae-Hwan Kim, Professor, Department of Public Health, Keimyung University, Dalgubeol-daero, Dalseogu, Daegu, South Korea; Current President KSAAE</li> <li>4. Dr. Seokjoo Yoon, Vice-Chair and Member Board of Directors Designate and Incoming President Korean Society for Alternatives to Animal Experiments (KSAAE); Principal Research Scientist, Korea Institute of Toxicology, Professor, Human and Environment Toxicology, University of Science &amp; Technology, Daejeon, Seoul, Republic of Korea</li> <li>5. Prof. Y.K. Gupta, Vice-Chair Designate AFSAAE and President, SAAE-India; Principal Advisor, Translational Health Science and Technology Institute (THSTI), Faridabad, India</li> <li>6. Dr. Ki-Suk Kim, Secretary General, KSAAE; Division Director, Principal Research Scientist, Division of Advanced Predictive Research, Korea Institute of</li> </ol>	Hamdard Convention Centre

	<p>Toxicology (KIT), Daejeon, South Korea]</p> <ol style="list-style-type: none"> <li>7. Dr. Shuangqing Peng, President, Society of Toxicological Alternatives and Translational Toxicology (TATT), People’s Republic of China (online)</li> <li>8. Prof. M.A. Akbarsha, Member Board of Directors AFSAAE; General Secretary, SAAE-India</li> </ol> <p><b>FELICITATION OF LEADERS OF GLOBAL SOCIETIES/ASSOCIATIONS FOR ALTERNATIVES</b></p> <ol style="list-style-type: none"> <li>1. Troy Seidle, Vice President, Humane Society International, Canada</li> <li>2. Prof. Winfried Neuhaus, President, European Society for Alternatives to Animal Testing (EUSAAT), Austria</li> <li>3. Dr. Kristie Sullivan, Vice President, American Society for Cellular and Computational Toxicology (ASCCT), USA</li> <li>4. Dr. Helena Kand’árová, President, European Society of Toxicology In vitro (ESTIV), Slovakia</li> <li>5. Dr. Mangala Gunatilake, Founder and Founding President, Society for Alternatives to Animal Testing (SAAT) in Sri Lanka, Sri Lanka</li> <li>6. Dr. Kalpani Ratnayake, President, Society for Alternatives to Animal Testing (SAAT) in Sri Lanka, Sri Lanka</li> <li>7. Dr. D.P.N. De Silva, President-Elect, SAAT-SL, Sri Lanka</li> </ol> <p><b>A Joint Declaration &amp; Signing of the Memorandum of Understanding (MoU) will be undertaken between the Societies at the end of the Launching Ceremony.</b></p> <p><b>Vote of thanks - Prof. S. Raisuddin, Vice President SAAE- India and Organizing Secretary 4ACAAE</b></p> <p><i>Please note that this order is random and subject to minor changes</i></p>	
11.30 - 11.50 am	<b>TEA/COFFEE BREAK</b>	
11.50 am - 12.20 pm	<p><b>SESSION FOR SPEAKERS FROM ASIAN COUNTRIES- I</b></p> <p>Chairperson: Prof. Farhan Jalees Ahmad, Department of Pharmaceutics, Jamia Hamdard, New Delhi, India</p>	Hamdard Convention Centre



	<p>Co-chairperson: Dr. B. Manivannan, Genaxy Scientific Pvt. Ltd, New Delhi</p> <p>Moderator: Dr. Syed Shafi, Department of Chemistry, Jamia Hamdard, New Delhi</p>	
	<p><b>INVITED LECTURES</b></p> <p><b>IL1- Speaker: Dr. Seokjoo Yoon, Principal Research Scientist, Korea Institute of Toxicology Professor, Human and Environment Toxicology, University of Science &amp; Technology, Daejeon, Seoul, Republic of Korea</b></p> <p>Empowering predictive toxicology</p> <p><b>IL 2- Speaker: Prof. Seung Hyeok Seok, Department of Microbiology and Immunology, Department of Biomedical Sciences, Cancer Research Institute, College of Medicine, Seoul National University, Seoul, Republic of Korea</b></p> <p>Development and distribution of alternative testing methods educational materials</p>	
12.20 - 1.10 pm	<p><b>SESSION FOR SPEAKERS FROM ASIAN COUNTRIES- II</b></p> <p>Chairperson: Prof. Shahid Umar, Department of Botany, Jamia Hamdard, New Delhi, India</p> <p>Co-chairperson: Dr. S. Achiraman, Department of Environmental Biotechnology, Bharathidasan University, Trichy, India</p> <p>Moderator: Dr. Sayeed Ur Rehman A. Kalam, Department of Biochemistry, Jamia Hamdard, New Delhi, India</p>	Hamdard Convention Centre
	<p><b>INVITED LECTURES</b></p> <p><b>IL3- Speaker: Dr. D.P.N. De Silva, President-Elect, SAAT-SL, Department of Chemistry, Faculty of Science, University of Colombo, Sri Lanka</b></p> <p>Zebrafish Embryo Toxicity Assay: Journey from water quality to natural product toxicity in Sri Lanka</p> <p><b>IL4- Speaker: Dr. Kalpani Ratnayake, Department of Cosmetic Science, Faculty of Health Sciences, CINEC Campus, Millennium Drive, IT Park, Malabe, Sri Lanka</b></p> <p>Cost-effective alternatives: Challenges and opportunities for implementing non-animal testing techniques in Sri Lanka</p> <p><b>IL5- Speaker: Prof. Mangala Gunatilake, Department of</b></p>	

	<p><b>Physiology, Faculty of Medicine, University of Colombo, Sri Lanka</b></p> <p>Establishing the ‘replacement’ journey in Sri Lanka</p>	
11.00 am - 1.00 pm	<p><b>POSTER SESSION -II</b></p> <p>Moderators: Dr. Basir Ahmad, Dr. Mashroor Ahmad Khan, Dr. Mehjabeen Javed, Jamia Hamdard, New Delhi, India</p>	Hamdard Convention Centre
1.20 - 2.30 pm	<b>LUNCH BREAK</b>	
2.30 - 4.00 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 1 (ORGAN, TISSUE AND CELL-ON-CHIP)</b></p>	Hamdard Convention Centre
	<p>Chairperson: Dr. Subrahmanyam Vangala, Reagene Biosciences Private Ltd, Bengaluru, India</p> <p>Co-chairperson: Prof. A.K. Najmi, Department of Pharmacology, Jamia Hamdard, New Delhi, India</p> <p>Moderator: Dr. Rizwana Parveen, Department of Translational &amp; Clinical Research, Jamia Hamdard, New Delhi, India</p>	
	<p><b>INVITED LECTURES</b></p> <p><b>IL6- Speaker: Dr. Subrahmanyam Vangala, Reagene Biosciences Private Ltd, Bengaluru, India</b></p> <p>In vitro NAMs: Gaps in scientific and regulatory validations and role of India in global context</p> <p><b>IL7- Speaker: Dr. Deepak Modi, ICMR-National Institute for Research in Reproduction and Child Health, Mumbai, India</b></p> <p>Engineering the placenta: Drug safety screening using organ on chip technology</p> <p><b>IL8- Speaker: Dr. Megha K.B., Sree Chitra Tirunal Institute for Medical Sciences and Technology, Toxicology Division, Thiruvananthapuram, India</b></p> <p>Advancing alternative models for toxicity assessment: In vitro pyrogen test and organ-on-a-chip approaches</p> <p><b>IL9- Speaker: Dr. Fazal Khan, Sultan Qaboos Comprehensive Cancer Care &amp; Research Center, Al Khoudh St, Muscat, Oman</b></p> <p>3D Organoids models in solid tumors for drug development and translational research</p>	

	<p><b>IL10- Speaker: Dr. Swarna Dabral, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, India</b></p> <p>Chicken embryo model as a tool to unravel saroglitazar-induced teratogenic manifestations and its underlying mechanisms</p>	
2.30 - 4.00 pm	<p><b>PARALLEL SESSION</b></p> <p><b>PeTA- SPONSORED SESSION 1</b></p> <p><b>Accelerating the application of non-animal approaches in toxicity testing of pesticides.</b></p> <p>Chairpersons: Dr. Ankita Pandey, Senior Science Policy Advisor, PeTA, India</p> <p>Mr. Vipin Saini, CEO, Biological Agri Solutions Association of India (BASAI), Faridabad, India</p> <p><b>Experts</b></p> <ol style="list-style-type: none"> <li><b>Dr SK Jain, Senior Consultant (Toxicology), CIB&amp;RC, Ministry of Agriculture and Farmer's Welfare, Faridabad, India</b></li> </ol> <p>Using non-animal approaches for toxicity testing of pesticides: Challenges and opportunities</p> <ol style="list-style-type: none"> <li><b>Mr. Rajesh Dhawan, Head-Regulatory Affairs, CropLife India, New Delhi and Senior Regulatory Specialist, Syngenta</b></li> </ol> <p>Non-animal approaches in pesticide toxicity assessment: Industry perspective</p>	Hakim Abdul Hameed Auditorium
4.30 - 6.00 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 2 (IN VITRO SYSTEMS)</b></p> <p>Chairperson: Dr. B.D. Banerjee, Rtd. Professor, University College of Medical Sciences, Delhi University, Delhi, India</p> <p>Co-chairperson: Dr. Sarika Gupta, National Institute of Immunology, New Delhi, India</p> <p>Moderator: Dr. Manoj Kumar, Department of Translational &amp; Clinical Research, Jamia Hamdard, New Delhi, India</p>	Hamdard Convention Centre
	<p><b>INVITED LECTURES</b></p> <p><b>IL11- Speaker: Dr. Alok Pandey, CSIR-IITR, Lucknow, India</b></p> <p>Assessment of cytotoxicity, genotoxicity, and mutagenicity of</p>	

	<p>YTTRIA (Yttrium oxide) nanoparticles in V-79 cells</p> <p><b>IL12- Speaker: Dr. Bilal Bin Hafeez, School of Medicine, South Texas Center of Excellence in Cancer Research, University of Texas Rio Grande Valley, TX, USA</b></p> <p>In vitro models to study tumor microenvironment and cancer therapy</p> <p><b>IL13- Speaker: Dr. Sreejith Parameswara Panicker, Department of Zoology, University of Kerala, Thiruvananthapuram, India</b></p> <p>Cholesterol and hair follicle health: Insights into alopecia from in vitro and organoid Models</p> <p><b>IL14- Speaker: Prof. Rizwanul Haque, Central University of South Bihar, Gaya, India</b></p> <p>Generation of immune cells through in vitro cell culture methods</p> <p><b>ORAL PRESENTATIONS</b></p> <p><b>OP1- Presenter: Pramuk Shiyan Adithya Rathnasoorya, University of Sri Jayawardenepura, Gangodawila, Nugegoda, Colombo, Sri Lanka</b></p> <p>Evaluation of in-vitro hepatoprotective activity of <i>Cyanthillium cinereum</i> (<i>Vernonia cinerea</i>) against ethanol-induced hepatotoxicity</p> <p><b>OP2- Presenter: Yogini Soman, Intox Pvt. Ltd., Pune</b></p> <p>In vitro alternative assays performed at Intox, an Aragen Life Sciences company</p>	
4.30 - 6.00 pm	<p><b>PARALLEL SESSION</b></p> <p><b>PeTA - SPONSORED SESSION 2</b></p> <p><b>Regulatory challenges replacing the use of animals in pyrogen testing for drugs and medical devices</b></p> <p>Chairperson: Dr. Rohit Bisht, Scientist - Pharmaceuticals &amp; Medical Devices, PETA India</p> <p><b>Experts</b></p> <ol style="list-style-type: none"> <li><b>Mr Sanjeev Singh, Territory Sales Manager, Charles River Laboratories India Pvt. Ltd. New Delhi, India</b></li> </ol> <p>Advancing responsible science through sustainable endotoxin testing</p> <ol style="list-style-type: none"> <li><b>Dr. Veena Panicker, Head-BioMonitoring Science &amp; Lab</b></li> </ol>	Hakim Abdul Hameed Auditorium

	<p>solutions, Merck Life Sciences, Mumbai, India</p> <p>3. Mr. Pratik Suthar, Channel Sales Manager- India &amp; Middle East, Lonza, Ahmedabad, India</p> <p>Sustainable BET testing by pyrogene rFC assay</p>	
4.30 - 6.00 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 3 (ADVANCES IN BIOTECHNOLOGY &amp; TOXICOLOGY)</b></p>	HILSR Ground floor
	<p>Chairperson: Prof. M.Z. Abdin, Department of Biotechnology, Jamia Hamdard, New Delhi, India</p> <p>Co-chairperson: Prof. Haider Ali Khan, Department of Medical Elementology &amp; Toxicology, Jamia Hamdard, New Delhi, India</p> <p>Moderator: Dr. Monica Saifi, Department of Biotechnology, Jamia Hamdard, New Delhi, India</p>	
	<p><b>INVITED LECTURES</b></p> <p><b>IL15- Speaker: Dr. Yaawar Bashir Mir, Department of Biotechnology, Sher-e-Kashmir University of Agricultural Sciences &amp; Technology, Srinagar, India</b></p> <p>Development of the accurate, accelerated, and affordable diagnostic kit (Real Tick) for rapid identification of re-merging tick-born zoonotic infections (Rickettsia &amp; Orientia)</p> <p><b>IL16- Speaker: Dr. Mehvish Saleem, State Viral Research Diagnostic Laboratory, Sher-i-Kashmir Institute of Medical Sciences, Srinagar, India</b></p> <p>Serological and molecular diagnosis of measles and rubella in Jammu and Kashmir</p> <p><b>IL17- Speaker: Dr. Joydeep Dutta, Department of Zoology, Lovely Professional University, Phagwara, Punjab, India</b></p> <p>Adsorption of heavy metals and pharmaceuticals from water: Application of plant and animal waste</p> <p><b>IL18- Speaker: Dr. Anand Mohan, School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab, India</b></p> <p>Series of non-mammalian model organisms for toxicological testing and research on xenobiotics</p> <p><b>ORAL PRESENTATIONS</b></p>	

	<p><b>OP 3- Presenter: Dr. Md. Margoob Ahmad, Department of Pharmacology, Indira Gandhi Institute of Medical Sciences, Patna, India</b></p> <p>Telomerase modulation in female breast cancer patients of arsenic affected region of Bihar</p>	
6.00 - 6.30 pm	<b>EC/GB MEETING OF SAAE - INDIA</b>	Hamdard Convention Centre
<b>DAY 02 CLOSES</b>		

## Day 03 (December 14, 2024 - Saturday)

TIME	EVENT	VENUE
9.00 am - onward	<p><b>REGISTRATION</b></p>	Hamdard Convention Centre
	<p><b>MatTek ORAL PRESENTATION AWARD SESSION FOR RESEARCH SCHOLARS AND POST-DOCTORAL FELLOWS</b></p> <p>Chairperson: Dr. M. Idris, CSIR- Centre for Cellular &amp; Molecular Biology (CCMB), Hyderabad, India</p> <p>Co-chairperson: Dr. Kausar Mehmood Ansari, Food Toxicology Laboratory, Food, Drug and Chemical Toxicology Group, CSIR-Indian Institute of Toxicology Research, Lucknow, India</p> <p>Co-chairperson: Prof. Nilanjan Saha, Department of Translational &amp; Clinical Research, Jamia Hamdard, New Delhi</p> <p>Moderator: Dr. Salik Noorani Khan, Department of Botany, Jamia Hamdard, New Delhi, India</p>	
9.30 - 10.30 am	<p><b>ORAL PRESENTATIONS</b></p> <p><b>OMA1- Presenter: Joseph Xavier, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum</b></p> <p>Design, fabrication, and computational analysis of a multi-Organ-on-Chip device for the lung-liver-kidney axis model</p> <p><b>OMA2- Presenter: Mothe Teja, Department of Pharmacology, ESIC Medical College and Hospital, Sanathnagar, Hyderabad, Telangana</b></p> <p>Impact of fluoxetine an antidepressant on female fertility through zebrafish (<i>Danio rerio</i>) as an experimental model</p> <p><b>OMA3- Presenter: Suramya, Department of Medical Elementology &amp; Toxicology, SCLS, Jamia Hamdard, New Delhi</b></p> <p>Mechanistic insights into PFHxS-induced structural modulation and conformational alterations in serum albumin</p> <p><b>OMA4- Presenter: Naveen Reddy Penumallu, Centre of Excellence in Unani Medicine (Pharmacognosy &amp; Pharmacology), School of Pharmaceutical Education &amp; Research, Jamia Hamdard, New Delhi</b></p>	

	Development of a synergy-based combination from traditional unani medicine against drug-induced nephrotoxicity in vitro and in vivo zebrafish model	
10.30 - 11.00 am	<p><b>TECHNICAL SESSION 4 (IN VITRO AND MICROBIAL TECHNOLOGY)</b></p> <p>Chairperson: Dr. Madhav Nilakanth Mugale, CSIR-Central Drug Research Institute (CDRI), Lucknow, India</p> <p>Co-chairperson: Dr. Mohan Kamthan, Department of Biochemistry, Jamia Hamdard, New Delhi</p> <p>Moderator: Ms. Nida Parveen, Department of Paramedical Sciences (Optometry), Jamia Hamdard, New Delhi</p>	Hamdard Convention Centre
	<p><b>ORAL PRESENTATIONS</b></p> <p><b>OP4- Presenter: Dr. Anil Kumar, National Institute of Immunology, New Delhi, India</b></p> <p>Towards understanding the anticancer role of gut microbial metabolites</p> <p><b>OP5- Presenter: Parvathy CA, Department of Zoology, Advanced Center for Regenerative Medicine and Stem Cell Research in Cutaneous Biology (AcREM Stem), University of Kerala, Thiruvananthapuram</b></p> <p>Comprehensive evaluation of the anti-melanogenic and antioxidant properties of the benzoquinone derivative compound in in-vitro and in vivo models</p>	
11.00 - 11.20 am	<b>TEA/COFFEE BREAK</b>	
11.30 am- 1.00 pm	<p><b>PANEL DISCUSSION (TOPIC - VALIDATION AND REGULATORY SCENARIO AND ALTERNATIVES FOR DEVICE TESTING)</b></p> <p><b>PANELLISTS (confirmation from some panellists is awaited)</b></p> <p><b>PROF. Y.K. GUPTA - CHAIRMAN &amp; CHIEF PANELLIST</b></p> <ol style="list-style-type: none"> <li>1. Dr. A.K. Pradhan, Dy Drug Controller, Centre for Drug Standards &amp; Control Organization, New Delhi, India</li> <li>2. Dr. S. Eswara Reddy, Joint Drug Controller, Centre for Drug Standards &amp; Control Organization, New Delhi, India (confirmation awaited)</li> <li>3. Dr. Christian Pellevoisin, Scientific Director, MatTek &amp; CEO Urbilateria, France</li> <li>4. Dr. Vijay Pal Singh, CSIR-Institute of Genomics &amp; Integrative Biology (IGIB), New Delhi, India</li> </ol>	Hamdard Convention Centre



	<p>5. Dr. Subrahmanyam Vangala, CEO, Reagene Biosciences Pvt. Ltd., Bengaluru, India</p> <p>6. Dr. Suresh Poosala, CEO &amp; Founder, OncoSeek Bio Pvt. Ltd., Visakhapatnam, India</p> <p>7. Dr. Krishnappa H, Managing Director, Eurofins - Advinus, Bengaluru, India</p> <p>8. Dr. Adip Roy, Amway, Gurugram, India</p> <p>9. Dr. Pratiksha Palahe, National Facility for Biopharmaceuticals, Khalsa College, Mumbai, India</p> <p>10. Dr. Ekta Kapoor, Scientist 'F' &amp; Head, National GLP Compliance Monitoring Authority, Department of Science and Technology, New Delhi, India (confirmation awaited)</p> <p>Panel Discussion Management: Dr. Mohan Kamthan, Jamia Hamdard, New Delhi, India</p> <p><i>Please note that the list of panellists is provisional and is subject to change.</i></p>	
1.00 - 2.00 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 5 (IN SILICO SYSTEMS, AI AND ML IN ALTERNATIVES RESEARCH)</b></p>	Hamdard Convention Centre
	<p>Chairperson: Prof. M. Shahar Yar, Department of Pharmaceutical Chemistry, Jamia Hamdard, New Delhi, India</p> <p>Co-chairperson: Dr. Parveen Bansal, Baba Farid University of Health Sciences, Faridkot, India</p> <p>Moderator: Dr. Noushina Iqbal, Department of Botany, Jamia Hamdard, New Delhi, India</p>	
	<p><b>INVITED LECTURES</b></p> <p><b>IL19- Speaker: Prof. Imtaiyaz Hassan, Jamia Millia Islamia, New Delhi, India</b></p> <p>Structure-based computational and experimental approaches in drug discovery: Exploring phytochemicals as novel inhibitors of MTH1</p> <p><b>IL20- Speaker: Dr. Haroon Habib Beigh, Faculty of Medicine, AlaToo International University, Kyrgyz Republic</b></p> <p>Modulatory effects of vinclozolin on cytochrome P450 and its evaluation using in silico approach</p>	

1.00 - 2.00 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 6 (ZEBRAFISH AND OTHER VERTEBRATES)</b></p>	HILSR Ground Floor
	<p>Chairperson: Prof. Sayeed Ahmad, Department of Pharmacognosy &amp; Phytochemistry, Jamia Hamdard, New Delhi, India</p> <p>Co-chairperson: Prof. Vir Vikram Sharma, School of Pharmaceutical Sciences, CT University, Ludhiana, India</p> <p>Moderator: Dr. Javaid A. Sheikh, Department of Biotechnology, Jamia Hamdard, New Delhi, India</p>	
	<p><b>INVITED LECTURES</b></p> <p><b>IL21- Speaker: Dr. M. Idris, CSIR-Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India</b></p> <p>Regenerating zebrafish -A novel model for effectual screening</p> <p><b>IL22- Speaker: Prof. Nazura Usmani, Department of Zoology, Aligarh Muslim University, Aligarh</b></p> <p>Heavy metal stress adaptation in fishes increases with their compromised health state</p> <p><b>ORAL PRESENTATION</b></p> <p><b>OP6- Presenter: Kaunava Roy Chowdhury, School of Pharmaceutical Sciences, CT University, Ludhiana</b></p> <p>Environmental pollutant octylphenol-induced neurotoxicity in the adult zebrafish model</p>	
1.00 - 2.00 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 7 (BIOENGINEERING, TISSUE ENGINEERING AND 3D BIOPRINTING)</b></p>	Hakim Abdul Hameed Auditorium
	<p>Chairperson: Dr. Suresh Poosala, OncoSeek Bio Pvt. Ltd., Visakhapatnam, India</p> <p>Co-chairperson: Prof. Ajay K. Yadav, Dr. B.R. Ambedkar Centre for Biomedical Research, Delhi University, Delhi, India</p> <p>Moderator: Dr. Imran Ahmad Khan, Department of Chemistry, Jamia Hamdard, New Delhi, India</p>	

	<p><b>INVITED LECTURES</b></p> <p><b>IL23- Speaker: Prof. Gopinath Packirisamy, IIT-Roorkee, Roorkee, India</b></p> <p>4D scaffolds: Adding a new dimension to tissue engineering</p> <p><b>IL24- Speaker: Piyush Padmanabhan, CEO Co-Founder &amp; Director, Next Big Innovation Labs, Bengaluru, India</b></p> <p>Customized engineering and pharma applications of bioprinting</p> <p><b>ORAL PRESENTATIONS</b></p> <p><b>OP7- Presenter: Lakshmi Rajan Menon, Institute of Chemical Technology, Matunga East, Mumbai, India</b></p> <p>Tailoring GelMA-Guar Gum Bioink for skin tissue engineering via extrusion-based 3D bioprinting</p> <p><b>OP8- Presenter: Ramya VVS, Oncoseek Bio Pvt Ltd., VCR Park, Visakhapatnam, India</b></p> <p>3D tumor spheroid-NK co-culture model: A novel alternative approach to animal studies in cancer immunotherapy</p>	
2.00 - 2.30 pm	<b>LUNCH BREAK</b>	
2.30 - 4.30 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 8 (INVERTEBRATE ALTERNATIVES)</b></p>	Hamdard Convention Centre
	<p><b>Chairperson:</b> Prof. Suhel Parvez, Department of Medical Elementology &amp; Toxicology, Jamia Hamdard, New Delhi, India</p> <p><b>Co-chairperson:</b> Dr. Ankita Pandey, PeTA, India</p> <p><b>Moderator:</b> Dr. M. Ahmed Khan, Department of Pharmacology, Jamia Hamdard, New Delhi, India</p>	
	<p><b>INVITED LECTURES</b></p> <p><b>IL25- Speaker: Dr Aamir Nazir, CSIR-CDRI, Lucknow, India</b></p> <p>Studying neurological diseases in <i>C. elegans</i>: PTR-10, the homolog of human PTCHD1, plays a crucial role in neuroprotection</p> <p><b>IL26- Speaker: Prof. Yasir Hasan Siddique, Aligarh Muslim University, Aligarh, India</b></p> <p>Drosophila as a research model for studying neurodegenerative</p>	

	<p>diseases</p> <p><b>IL27- Speaker: Dr. Arnab Mukhopadhyay, National Institute of Immunology, New Delhi, India</b></p> <p>Using <i>C. elegans</i> as a model system to understand molecular mechanisms of longevity assurance</p> <p><b>IL28- Speaker: Dr. Ravi Ram Kristipati, CSIR-IITR, Lucknow, India</b></p> <p><i>Drosophila</i> as an alternate animal model for male reproductive toxicity</p> <p><b>IL29- Speaker: Dr. Aruna Satish, CSIR-IITR, Lucknow, India</b> <i>Caenorhabditis elegans</i> a model for nanomaterial safety assessment</p> <p><b>IL30- Speaker: Dr. Jawaid Ahsan, Department of Biotechnology, Central University of South Bihar, Bihar</b></p> <p>Developmental and Neurological effects of arsenic on <i>Drosophila melanogaster</i></p> <p><b>ORAL PRESENTATIONS</b></p> <p><b>OP9- Presenter: Dr. Atsushi Miyashita, Laboratory of Antifungal Immunobiology, Teikyo University Institute of Medical Mycology, Tokyo, Japan</b></p> <p>Employing the silkworm (<i>Bombyx mori</i>) as an alternative model organism for drug development and safety evaluation</p>	
2.30 - 4.30 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 9 (ANIMAL WELFARE AND OTHER ALTERNATIVES)</b></p>	HILSR - Ground Floor
	<p>Chairperson: Dr. Vijay Pal Singh, CSIR-IGIB, New Delhi, India</p> <p>Co-chairperson: Prof. Padmshree Mudgal, Daulat Ram College, Delhi University, Delhi, India</p> <p>Moderator: Dr. Peer Saffeullah, Department of Botany, Jamia Hamdard, New Delhi, India</p>	
	<p><b>INVITED LECTURES</b></p> <p><b>IL31- Speaker: Dr. Savita Nutan, Medicine Without Cruelty, London, UK</b></p> <p>Stop and use non-animal methods: How the SUN Project is Illuminating the path forward</p> <p><b>IL32- Speaker: Dr. B. Kiran Kumar, CCMB, Hyderabad, India</b></p>	

	<p>Organoids as intermediate disease modelling platforms</p> <p><b>IL33- Speaker: Dr. Rudra Nayan Das, Shiv Nadar University, Noida, India</b></p> <p>Illuminating lymphatic biology using zebrafish model system</p>	
2.30 - 4.30 pm	<p><b>PARALLEL SESSION</b></p> <p><b>TECHNICAL SESSION 10 (METABOLOMICS, BIOINFORMATICS, TOXICOINFORMATICS AND NETWORK PHARMACOLOGY)</b></p>	Hakim Abdul Hameed Auditorium
	<p>Chairperson: Prof. Rizwanul Haque, Central University of South Bihar, Gaya, India</p> <p>Co-chairperson: Dr. Sreejith Parameswara Panicker, Department of Zoology, University of Kerala, Thiruvananthapuram, India</p> <p>Moderator: Dr. M Ashif Khan, Department of Translational &amp; Clinical Research, Jamia Hamdard, New Delhi, India</p>	
	<p><b>INVITED LECTURES</b></p> <p><b>IL34- Speaker: Dr. Mohana Krishna Reddy Mudiam, Institute of Pesticide Formulation Technology, Gurugram, India</b></p> <p>Metabolomics in animals and alternatives to animal models: An emerging comprehensive screening tool for toxicological applications</p> <p><b>IL35- Speaker: Dr. Umesh Prasad, Isabella Thoburn PG College, Lucknow, India</b></p> <p>A digital platform for animal research</p> <p><b>IL36- Speaker: Dr. Anoop Kumar, Delhi Pharmaceutical Sciences and Research University, New Delhi, India</b></p> <p>Network Pharmacology: Next generation alternative in biomedical research</p> <p><b>IL37- Speaker: Dr. Snigdha Mishra, UPES, Dehradun, India</b></p> <p>Insights from flies: Drosophila as a powerful model to study interactions and intricate pathways of reproduction</p> <p><b>ORAL PRESENTATION</b></p> <p><b>OP10- Presenter: Amit Khanna, Yashraj Biotechnology, MIDC, Navi Mumbai</b></p>	

	CiPA validated iPSC-derived cardiomyocytes: A powerful tool in drug safety and discovery	
4.30 - 5.30 pm	<b>VALEDICTORY SESSION AWARD DECLARATION AND DISTRIBUTION</b>  <b>Declaration of the Next Venue for the 5<sup>th</sup> Asian Congress</b>	Hamdard Convention Centre
5.30 pm	TEA/COFFEE	
<b>CURTAINS DOWN</b>		

**Note:** Last minute changes are possible. In case of revision an advance notice will be sent and the revised programme will be uploaded on the Congress Portal.

**Organizing Committee - 4ACAAE**