



PROGRAMME SCHEDULE

International Webinar on “The Relevance of Omics and Regenerative Medicine in the Pandemic Situation (5th Edition)”

April 22nd- April 24th 2021

Organized by: Department of Zoology, University of Kerala | Advanced Centre for Regenerative Medicine and Stem Cell Research in Cutaneous Biology(AcREM-Stem) | Society for Advancements in Omics, Regenerative Medicine, Tissue Engineering and Stem Cell Research

In Partnership with: Society for Translational Cancer Research | Society for Nutraceuticals and Chronic Diseases| Society for Alternatives to Animal Experiments-India | Kerala Academy of Sciences | Association of British Scholars, Thiruvananthapuram,Chapter

April 22nd, Thursday, 2021

09.30am- 10:00am: **Inaugural Program**

10:00am- 13:00 pm: Technical programmes Omics and COVID-19

Chairperson: Prof./Dr. Oommen V. Oommen (Former Chairman, Kerala State Biodiversity Board, Emeritus Scientist, Dept. of Comp. Biology & Bioinformatics, University of Kerala, Thiruvananthapuram)

10:00am- 10:45am: **IL.1: Prof. /Dr. Subhash Chauhan**
Professor and Chairman (Tenured), UT-STARs Fellow Awardee,
Department of Microbiology and Immunology, Director, Institute of Cancer Immunotherapy, School of Medicine, University of Texas Rio Grande Valley (UTRGV)
“Advances in Chronic Diseases Diagnosis and Treatment”

10:45am- 11:20am: **IL.2:Prof./Dr. Sanjeeva Srivastava**, Department of Biosciences and Bioengineering,
Indian Institute of Technology Bombay, Mumbai, India
“Recent innovations in proteomics: Focus on COVID-19.”

11:20am- 11:55am **IL.3:Dr. Arvind Kumar**
Senior Principal Scientist, Epigenetics & Neuropsychiatric Disorders Laboratory (CCMB)
“More than the genes the gene-environment interactions appear to cause chronic complex diseases including neuropsychiatric disorders by altering epigenetic regulatory mechanisms.”

11:55am-12:25pm: **IL.4: Prof. /Dr. M.A. Akbarsha**
Biomedical Scientist & Research Coordinator, National College (Autonomous)
Tiruchirappalli, India
“Non-animal methods of drug testing and vaccine development in India in the context of COVID-19.”

12:45pm- 13:30 pm: **Lunch Break**

13:30 pm- 16:45 pm: **Technical programs II: Therapeutics and COVID-19**

Chairperson: Prof./Dr. P R Sudhakaran

(Former Prof. & Head, Dept. of Biochemistry, Emeritus Scientist, Dept. of Comp. Biology & Bioinformatics University of Kerala, Thiruvananthapuram)

13:30pm- 14:00pm: **IL.5: Dr. Sarah Sabu Cherian**
Scientist F, ICMR National Institute of Virology(NIV), Pune
“Relevance of genomic surveillance in understanding the evolution of the pandemic”

14:30pm- 15:00pm: **IL.6:Dr. Maya Nandkumar A.**
Scientist G, SCTIMST, Thiruvananthapuram
“Importance of vaccines - Saga of development of Covid Vaccine.”

15:00pm- 15:30pm: **IL.7:Dr.Anathalakshmy Sundararaman**
Ramalingaswami Fellow, RGCB
“Proteomics and COVID-19: Implications for cardiovascular outcomes”

15:00pm- 15:35pm: **IL.8: Dr. Rajmohan V**
Assoc. Prof., Govt. Ayurveda College,Thiruvananthapuram.
“Ayurvedic response to COVID-19 sequelae in Kerala”

15:35 pm- 16:10 pm: **IL.9: Prof./Dr. K. Rajasekharan Nayar**
Principal and Professor,Global Institute of Public Health, Thiruvananthapuram.
“Pandemics and the people: New Trends and Future.”

16:10 pm- 16:45 pm **IL.10: Dr.Raghu Ram Achar**
Assistant Professor, Division of Biochemistry, School of Lifescience
JSS Academy of Higher Education and Research, Sri Shivarathreeshwaa Nagara,
Karnataka,India
“Metabolomics in drug discovery and personalized medicine.”

April 23rd, Friday, 2021

10:00am-12:20pm: **Technical programmes III: Model systems and COVID-19**

Chairperson: Prof./Dr. A. Helen

(Head, Dept. of Biochemistry, University of Kerala)

10:00am-10:35am: **IL.11: Prof./Dr.Jagat K Roy**
Professor, Department of Zoology, Banaras Hindu University, Varanasi
“Drosophila as an important model system for molecular genetic analysis: lesson learned from cloning of functional analysis of *Rab11* gene.”

10:35am-11:10am: **IL.12: Dr.Nixon M Abraham**
Assistant Professor, Dept. of Biological Science, IISER, Pune
“Neurocognitive deficits in long COVID”

- 11:10am-11:45am **IL.13: Dr. M Mohammed Idris**
Principal Scientist, Regeneration and Degeneration Laboratory, CSIR-CCMB, Telangana
"Biomechanism of Regeneration in alternate Model animals".
- 11: 45am-12:20pm **IL.14: Dr. Ram Yadav**
Associate Professor, Biological Sciences, IISER, Mohali, Punjab, India
"Stem cell biology and its implication on yield in crop plants"
- 12:20pm – 13:10pm **Lunch Break**
- 13:10pm- 15:30 pm: **Technical programmes IV: Stem cells and Inflammation**
- Chairperson: Prof./Dr. G Prasad.**
(Prof. & Head, Dept. of Zoology, University of Kerala)
- 13:15pm-13:45pm: **IL.15:Dr.Satish Ramalingam**
Assistant Professor, Department of Genetic Engineering, Assistant Professor (S.G), SRM Institute of Science and Technology (SRMIST), Kanchipuram
"Generation of pancreatic β -cells from urine-derived stem cells"
- 13:45pm-14:25pm: **IL.16:Dr.J.R.Kumar**
Assistant Professor and Course Coordinator, Division of Biochemistry, School of Life science, JSS Academy of Higher Education and Research, Sri Shivarathreeshwaa Nagara, Karnataka, India
"Targeting inflammation in autoimmune disorders"
- 14:25pm -15:00pm: **IL.17:Dr. Siddesha J M**
Assistant Professor, Division of Biochemistry, School of Life science, JSS Academy of Higher Education and Research, Sri Shivarathreeshwaa Nagara, Karnataka, India
"Treatment for lung inflammation and fibrosis: Look no further than the liver"
- 15.00pm -15.30 pm **IL.18: Dr.G.Dhanavathy**, Assistant Professor, Department of Biotechnology, School of Bioengineering, SRM Institute of Science and Technology
"Swertiamarin induces the regeneration of pancreatic β -cells in Type 2 *Diabetes mellitus*"
- 15:30 pm -17:00 pm: **Oral Presentations (OP1-OP10)**
Chairpersons: Dr. Cibin. T.R, Assistant Prof. Dept., of Biochemistry, SCTMIST & **Dr. Viji Vijayan**, Assistant Prof., Dept. of Biochemistry, University of Kerala
- Special Talk**
Chairperson: Prof./Dr. Oommen V. Oommen (Former Chairman, Kerala State Biodiversity Board, Emeritus Scientist, Dept. of Comp. Biology & Bioinformatics, University of Kerala, Thiruvananthapuram)
- 21:00pm - 22:00pm: **Prof./Dr. Bharat B Aggarwal**
Director, Inflammation Research Centre, San Diego, California, USA
"Targeting Inflammatory Pathways by Agents from Ayurveda, Spices And Nutraceuticals for Prevention and Treatment of Cancer; Other Chronic Diseases"

April 24th, Saturday, 2021

- 9.00:am- 12.30pm: **Technical programmes V: Cancer and Regenerative Medicine**
Chairperson: Prof. /Dr.A.K Sherief
Kerala Agricultural University, Vellyani
- 9.00am-9.30am: **IL.19:Dr. Murali Yallapu**
Department of Immunology and Microbiology, School of Medicine, University of Texas
Rio Grande Valley, USA
**“Nanotechnology based treatments for Cancer Therapy: Evaluating through
Omics Approach”**
- 9.30am- 10.00am: **IL.20: Prof./Dr.Ajaikumar B. Kunnumakkara**
Associate Professor, IIT-Guwahati
“Role of store operated calcium entry channels in oral cancer”
- 10:00am-10:30am: **IL.21: Prof.Surajit Pathak**
Department of biotechnology, Faculty of Allied Health Sciences, CARE, Chennai
“Role of microRNA122 in colon cancer cell proliferation”
- 10:30am-11:00am: **IL.22: Dr.Antara Banerjee**
Associate Professor, Faculty of Allied Health Sciences, CARE,CHRI
**“Potential applications of mesenchymal stem cells and its secretome in
regenerative medicine”**
- 11:30am-12:00 noon: **IL.23:Dr. Kanagaraj Palaniyandi**
Department of Biotechnology, SRM Institute of Science and Technology, Chennai
KDM3A overexpressing pancreatic cancers: Drug discovery applications
- 12:00noon-12:30pm: **IL.24: Dr. V.Gayatri**
Senior Scientist, Scientist E1, Phytochemistry and Pharmacology division, JNTBGRI
**“Biocompatible and therapeutic potential of madecassoside encapsulated alginate
chitosan nanoparticles on anti-excitotoxicity and anti-proliferative activity”**
- 12:30pm -13:00pm: **IL.25: Dr. R. Ilangovan**
Department of Endocrinology, Dr. ALM Post Graduate Institute of Basic Medical
Sciences, University of Madras, Taramani Campus, Chennai, Tamil Nadu
Exploring the fracture healing mechanisms of a phytomedicine
- 13:00pm – 13:45pm: **Lunch Break**
- 13:45pm -15.30pm **Oral Presentations (OP 11 – OP 20)**
**Chairpersons: Dr. Cibin. T. R, Assistant Prof. Dept., of Biochemistry, SCTMIST &
Dr. Viji Vijayan, Assistant Prof., Dept. of Biochemistry, University of Kerala**
- 15.30pm-16.00pm: Concluding Session

ORAL PRESENTATIONS ON 23RD APRIL 2021 (15:30pm – 17:00pm)

SI.No	NAME	TITLE
OP1	Madhuri Amulya K	Cytokeratin profile of keratinized eyelid margins in Stevens Johnson syndrome
OP2	Gopika T.S	In vitro study on the efficacy of collagen based biomaterial from the byssus threads of <i>Perna viridis</i> in wound healing
OP3	Ramiya K. R.	Diversity of Dragonflies at Polachira Wetland and Kulathuppuzha River Bank (Kollam District), Kerala, India
OP4	Arathy P. V.	Diversity of Damselflies at Polachira Wetland and Kulathuppuzha River Bank (Kollam District), Kerala, India
OP5	Mimitha A.S	Phytochemical screening, antioxidant and antiproliferative effect of <i>Hemigraphis colorata</i> W.Bull
OP6	Jyothis Mary Mathew	Preliminary analysis on the efficacy of black cumin oil (<i>Nigella sativa</i>), 95% curcumin and their combination using biological assays on SKbr3 cell line
OP7	Reshma. P	Studies on carbofuran induced histopathological impacts in gills and liver of a teleost fish, <i>Tilapia mossambica</i>
OP8	Joseph Roy	Bird diversity of Kerala university campus and its importance in urban ecosystem
OP9	Parvathy V.S	Study of water birds in the Vellayani wetlands of Thiruvavanthapuram, Kerala
OP10	Najeeb S	Cholesterol biosynthesis inhibition resulted scar formation (Fibrosis) in the skin of <i>Mus musculus</i>

ORAL PRESENTATIONS ON 24TH APRIL 2021 (13:45pm – 15:30pm)

SI.No	NAME	TITLE
OP11	Arya Ajayan	Association of macroinvertebrates and macrophytes in chaliyakkara river
OP12	Reshma Krishnan	Diversity of flatfishes (Order Pleuronectiformes) in Kayamkulam backwater.
OP13	Gopika. V. S	Preliminary phytochemical screening and larvicidal efficacy of petroleum ether, acetone and methanol leaf extract of <i>Ricinus communis</i> against <i>Culex quinquefasciatus</i> and <i>Aedes aegypti</i>
OP14	Alfiya. R	Analyses of Methanol Extracts of the Marine Sponge, <i>Callyspongia fibrosa</i> from Southwest Coast of India for their Bioactivities
OP15	Vaishnavi Manoj	Bioactivity studies of metabolites extracted from the marine sponge <i>Dysidea fragilis</i> collected from Southwest coast of India
OP16	Abhijith.P	Stem cells for the treatment of skeletal muscle injury
OP17	Ann Paul	Effect of UV short wave radiation on caudal fin regeneration of Zebrafish, <i>Danio rerio</i>
OP18	Raga S S	General aspects of caudal fin regeneration in Zebrafish, <i>Danio rerio</i>
OP19	Anagha	Effects of pollutants in regenerative performance of the Zebrafish, <i>Danio rerio</i>
OP20	Anjana Mohan	Therapeutical applications of human umbilical cord blood