

2nd International Conference on Genome Biology (ICGB-2)

and 52nd Aqua Terr Annual Day

28 Feb – Mar 2, 2021: 2-9 PM (Virtual)

School of Biological Sciences, Madurai Kamaraj University, Madurai

Feb 28, Sunday (Day 1)

Duration including Q&A	Speaker	Speaks on	Session Theme
1.45 – 2.00 PM	Welcome Note: Prof.G.Kumaresan , Convener & Chairperson, School of Biological Sciences, MKU Inaugural Address: Prof.M.Krishnan , Vice-Chancellor, MKU		Inaugural Session Moderator: Mr. J.C. Walter Devaa, Ph.D student, SBS, MKU
2.00 - 2.45 PM	Dr.RM. Pitchappan Visiting Professor, Adviser, aDNA Program School of Biological Sciences Madurai Kamaraj University, India	The effect of migration on Indian population structure	Population Genomics (Prof. S.Krishnaswamy (SK) Endowment Lecture) Moderator: Ms. Ponmathi, Ph.D student, SBS, MKU
2.45 - 3.30 PM	Dr.Vinod Scaria Senior Scientist CSIR Institute of Genomics and Integrative Biology, New Delhi, India	From Personal Genomes to Populations and Back - Experiences from India	Population Genomics Moderator: Ms. Bharathi, 2 nd M.Sc. Microbiology, SBS, MKU
3.30 - 4.10 PM	Dr.Ana Prohaska Research Associate University of Cambridge, UK		Ancient Genomics Moderator: Ms. Dwaraka Ramachandran, 2 nd M.Sc. Microbiology, SBS, MKU
4.10- 4.20 PM	<i>Break</i>		
4.20 - 4.50 PM	Dr.Gowripriya Scientist Aravind Medical research Foundation Madurai, India	miRNAs Regulating Corneal Epithelial Stem Cells	Stem Cells & Development Moderator: Mr. J.C. Walter Devaa, Ph.D student, SBS, MKU
4.50 - 5.30 PM	Dr.Kar Muthumani Chief Scientific Development Officer GeneOne Life Science, Inc. Fort Washington, USA	Immunity and Gene Therapy	Immunotherapy Moderator: Ms. Ponmathi, Ph.D student, SBS, MKU
5.30 - 6.10 PM	Dr.Luis J. Montanel Vice President, Scientific Operations, Kean Family Endowed Chair Professor, Director, HIV-1 Immunopathogenesis Laboratory Editor-in-Chief, Journal of	Residual immune activation in ART-suppressed HIV-infected persons under medications for opioid use disorders	Immunotherapy Moderator: Ms. Bharathi, 2 nd M.Sc. Microbiology, SBS, MKU

	Leukocyte Biology, The Wistar Institute, Philadelphia, USA		
6.10- 6.50 PM	Dr.Alfredo Perales-Puchalt Geneos Therapeutics, Pennsylvania, USA	Novel cancer immunotherapy approach using Neoantigens and bispecific antibodies	Immunotherapy Moderator: Ms. Dwaraka Ramachandran, 2 nd M.Sc. Microbiology, SBS, MKU
6.50 - 7.00 PM	<i>Break</i>		
7.00 - 7.45 PM	Dr.Radhika Basheer Associate Professor, Department of Psychiatry, Harvard Medical School, Research Health Scientist, VA Boston Healthcare, USA	Why do we need sleep?	Chronobiology (Prof.M.K.Chandrasekar (MKC) Endowment Lecture) Moderator: Mr. J.C. Walter Devaa, Ph.D student, SBS, MKU
7.45 - 8.30 PM	Dr.Gopal Thinakaran Professor of Molecular Medicine, Eric Pfeiffer Endowed Chair in Alzheimer's Research, Associate Director of Research, Neuroscience Institute, USF Morsani College of Medicine, Tampa, USA	Deciphering the Alzheimer's disease GWAS risk factor BIN1	Chronic Disease Biology Moderator: Ms. Ponmathi, Ph.D student, SBS, MKU

Mar 1, Monday (Day 2)

12.00-1.00 PM	Dr.Rameshwar P Sharma Professor Emeritus School of Life Sciences, South Campus University of Hyderabad, India	Tomato Genomics	Plant Genomics (Prof.A.Gnanam Endowment Lecture) Moderator: Moderator: Ms. Ponmathi, Ph.D student, SBS, MKU
1.00-2.00 PM	Break		
2.00 - 2.45 PM	Dr. Kanaga Sabapathy Chairman, Cellular and Molecular Research & Research Director National Cancer Centre, Singapore DUKE-NUS Medical School, Singapore	Functional interaction among multiple cell types dictates the outcome of liver fibrosis	Cancer Biology Moderator: Ms. Dwaraka Ramachandran, 2 nd M.Sc. Microbiology, SBS, MKU
2.45 - 3.30 PM	Dr.Amit Dutt Shanti Swarup Bhatnagar Awardee Wellcome Trust/ DBT India Alliance Fellow Tata Memorial Centre, ACTREC, Mumbai, India	Biological and Therapeutic Insights from the Cancer Genome	Cancer Genomics Moderator: Mr. J.C. Walter Devaa, Ph.D student, SBS, MKU
3.30 - 4.15 PM	Dr.K.Thangaraj Director, CDFD, Hyderabad Senior Principal Scientist, CSIR-Centre for Cellular and Molecular Biology, Hyderabad, India	Population genomics and public health	Human Genomics Moderator: Ms. Ponmathi, MKU
4.15 - 4.30 PM	<i>Break</i>		
4.30 - 5.00 PM	Dr.Debarka Sengupta IIT, NewDelhi, India	Frontiers in liquid biopsy of cancer	Cancer Genomics Moderator: Ms. Bharathi, 2 nd M.Sc. Microbiology, SBS, MKU
5.00 - 5.30 PM	Dr.G.Kumaresan, Head, Dept. of Genetics Chairperson, School of Biological Sciences, MKU, India	Genomic Stratification and Targeted Cancer Therapeutics	Cancer Genomics Moderator: Ms. Dwaraka Ramachandran, 2 nd M.Sc. Microbiology, SBS, MKU

5.30 - 6.30 PM	Dr.Sakthivel, Professor of Internal Medicine Associate Chief, Basic Research, Division of Cardiovascular Health and Disease Associate Chair, Basic Research, Internal Medicine Director, Heart Research, Heart, Lung and Vascular Institute, University of Cincinnati College of Medicine, Cardiovascular Center, Cincinnati, USA	Hypertrophic cardiomyopathy in populations of South Asian descendants	Prof. Chellam Rajamanickam (CR) Endowment Lecture Welcome (3 mins): Dr. G. Kumaresan Chairperson, SBS, MKU Opening remarks (15 min) & Moderator Dr.S.Shanmugasundaram Professor & Principal Scientist PSGR Krishnammal College Coimbatore, India Closing remarks: Prof. Chellam Rajamanickam
6.30 - 7.00 PM	Dr.Evanglia Kranias Hanna Professor and Director Cardiovascular Biology, Distinguished University Professor, University of Cincinnati, USA	Calcium Cycling Pathways in Heart Disease	Session: Molecular Aspects of Cardiomyopathies and Heart Failure
7.00 – 7.30 PM	Dr. Sankar Natesan Professor of Biotechnology, School of Biotechnology MKU, India	Cardiac Remodeling- "InsP3R-ing" Role	
7.30 – 7.45 PM	Break		
7.45 – 8.15 PM	Dr.Lucie Carrier Professor of Functional Genomics of Cardiomyopathies, Institute of Experimental, Pharmacology and Toxicology, University Medical Center Hamburg-Eppendorf, Germany	Human induced-pluripotent stem cells for personalised medicine of inherited cardiomyopathies	Moderators:
8.15– 8.45 PM	Dr. Nitish R. Mahapatra Professor, Department of Biotechnology Bhupat and Jyoti Mehta School of Biosciences Indian Institute of Technology Madras, India	Functional genetic variants in chromogranin A gene enhance the risk for cardiometabolic disease in Indian populations	Priyanka Sharma , PhD student, Visiting scholar, King's College London, UK Haripriya Ravikumar , PhD student, PhD Student, Taylor's University, Malaysia
8.45 – 9.25 PM	Dr.Maanasa Raghavan Asst. Professor Dept. of Human Genetics University of Chicago, USA	Reconstructing human demographic histories using ancient DNA	Ancient Genomics Moderator: Mr. J.C. Walter Deva, Ph.D student, SBS, MKU

Mar 2, Tuesday (Day 3)

11.00 - 11.30 AM	Dr.Rajendhran Assistant Professor, Department of Genetics, School of Biological Sciences, Madurai Kamaraj University	Genomics of Brucella	Microbial & Metagenomics Moderator: Mr. J.C. Walter Devaa, SBS, MKU
11.30 - 12.00 PM	Dr.B.Ashok Kumar Associate Professor, Department of Genetic Engineering SBT, MKU	Molecular Mechanisms of Riboflavin Transport and Physiology in Humans	Human Genetics Moderator: Ms. Ponmathi, SBS, MKU
12.00 - 12.30 PM	Dr.Gopal Assistant Professor, Department of Plant Biotechnology, SBT, MKU	Detection and characterization of circular RNAs by a new approach	ncRNA Biology Moderator: Ms. Bharathi, MKU
12.30 - 1.00 PM	Dr.Jebasingh Assistant Professor, Dept. of Plant Sciences, SBS, MKU	Small RNAs of Plant Pathogens	ncRNA Biology Moderator: Ms. Dwaraka Ramachandran, MKU
1.00 - 2.00 PM	<i>Lunch Break</i>		
2.00 - 2.40 PM	Dr.S.Sudhakar Dept of Biotechnology, Manonmaniam Sundaranr University, Tirunelveli	Whole Genome of the Earthworm, Eudrilus eugenia	Genomics of Model Organisms Moderator: Mr. J.C. Walter Devaa, MKU
2.40 - 3.20 PM	Dr.Vibhor Kumar IIIT, NewDelhi	The challenges and promises of single cell epigenomics	Single Cell Genomics Human Genetics Moderator: Ms. Ponmathi, MKU
3.20 - 4.00 PM	Dr.A.K.Munirajan Director, Dr. ALM PG Institute of Basic Medical Sciences, University of Madras	lncRNAs in Cancer and Cardiovascular Diseases	ncRNA Biology Moderator: Ms. Bharathi, , MKU
4.00 - 4.10 PM	<i>Break</i>		
4.10 - 4.50 PM	Dr.Karuthapandian Senior Professor & Head Department of Biotechnology &	Deciphering the mode of action of antipathogenic agents through proteomics approach	Infectious Biology (Prof. M.Lakshmanan (ML) Endowment Lecture)

	Dean: Faculty of Science, Alagappa University, Karaikudi		Moderator: Mr. J.C. Walter Devaa, MKU
4.50 - 5.30 PM	Dr.K.Balamurugan Professor, Department of Biotechnology, Alagappa University, Karaikudi, India	<i>Caenorhabditis elegans</i> as a powerful alternative model to study infectious biology	Infectious Biology Moderator: Ms. Ponmathi, MKU
5.30 - 6.10 PM	Dr.Satishkumar Professor and Program Coordinator, M.Sc. Medical Biotechnology Program Department of Biotechnology Bharathiar University, Coimbatore	Metabolic Engineering of Crop Plants	Plant Biotechnology Moderator: Ms. Bharathi, MKU
6.10 - 6.20 PM	<i>Break</i>		
6.20 - 6.50 PM	Dr.Shanmuga Sundaram , Visiting Professor, SBS, MKU	New Drug Careers and Drug Delivery Systems	Drug Delivery Systems Moderator: Ms. Bharathi, MKU
6.50 - 7.30 PM	Dr.Subra Malarkannan , Gardetto Chair for Immunotherapy, Senior Investigator, Blood Research Institute, Professor, Department of Medicine-Hematology and Oncology, Department of Microbiology and Immunology, & Department of Pediatrics, The Medical College of Wisconsin, Milwaukee, USA	Single-cell transcriptome reveals high heterogeneity among human NK cells	Immunogenomics Moderator: Ms. Ponmathi, MKU
7.30 - 8.15 PM	Dr. PARTHA P. MAJUMDER President, Indian Academy of Sciences National Science Chair, Distinguished Professor and Founder, National Institute of Biomedical Genomics, Kalyani, India	Genomics of Oral Cancer and Metastasis	Cancer Genomics (Genomics Endowment Lecture) Moderator: J.C. Walter Devaa, MKU
8.15 - 9.00 PM	Prof.Sripathi Kandula SBS-Alumni Coordinator Principal, Faculty of Allied Health Sciences Chettinad Academy of Research and Education, Chennai	SBS - MKU Alumni Session	Moderator: Ms. Ponmathi, MKU
	Prof.M.Krishnan , Vice-Chancellor, MKU	Awards Announcement & Valedictory Address	Moderator: Mr. J.C. Walter Devaa, MKU
	Vote of Thanks	Dr.K.Jayakumar SBS, MKU	Moderator: Ms. Ponmathi, MKU