

Bedside

CENTRE FOR STEM CELL RESEARCH (A unit of inStem, Bengaluru), Christian Medical College Campus, Bagayam, Vellore



9TH ANNUAL SYMPOSIUM ON CELL AND GENE THERAPY

1st to 3rd August, 2024 PROGRAMME SCHEDULE

	DAY-1: Thursday, 1st A	August, 2024	
1:00 to 1:05 PM 1:05 to 1:20 PM 1:20 to 1:25 PM 1:25 to 1:30 PM	 Prayer by Chaplain Welcome remarks: Director, CMC / Director, InStem / Principal, CMC Remarks by Secretary, Department of Biotechnology, Ministry of Science and Technology, Govt. of India Closing remarks: Head, CSCR 		
	Session-1: Orthobiologics In C Chair: Samuel Chitta	——————————————————————————————————————	
India Time	Title	Speaker Name	
1.30 to 2:00 PM	Cell-Based Therapeutics for Arthritic Disease	Frank Barry University of Galway, Ireland	
2:00 to 2:30 PM	PRP for OA Knee: Bench to bedside	Sandeep Patel The Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India	
2:30 to 3:00 PM	The Role of Extracellular Vesicles and Orthobiologics Secretome in Joint Preservation	Elizabeth Vinod Centre for Stem Cell Research, a unit of inStem, Bengaluru and Christian Medical College, Vellore, India	
3:00 to 3:30 PM	Poster presentation	and Industry Exhibition	
	Session-2: MANUFACTURING AND REGULATORY AS Chair: Cartikeya Re		
India Time	Title	Speaker Name	
2.20 to 4.00 DM	Regulatory Paradigm of CAR-T therapies in India	Akhil Kumar Aurigene Oncology Limited, Bangalore, India	
3:30 to 4:00 PM	And Challenges and Promise of CAR-based therapies in India	<u>and</u> Priyadarshini Chatterjee Aurigene Oncology Limited, Bangalore, India	
4:00 to 4:30 PM	From Innovation to Translation to Patients: The Future of Genetically Engineered T-Cells for Human Therapeutics	Bruce L. Levine The University of Pennsylvania, Philadelphia, US	
4:30 to 5:00 PM	Mesenchymal stromal cells for clinical applications: CMC Challenges and Paths Forward	Sowmya Viswanathan Schroeder Arthritis Institute, University Health Network and the University of Toronto, Ontario, Canada	
5:00 to 5:15 PM	В	reak	
	Session-3: TECHNOLOGY A Chair: Soniya Nitya		
India Time	Title	Speaker Name	
5:15 to 5:45 PM	Development of targeted viral platform for selective gene transfer to human HSCs in vivo	Dmitry M. Shayakhmetov Emory University School of Medicine Atlanta, USA	
5:45 to 6:15 PM	Genetic and Transcriptional Engineering of Primary Human Blood Cells	Rasmus O. Bak Aarhus University, Department of Biomedicine, Aarhus, Denmark	
6:15 to 6:45 PM	Innovative Non-Genotoxic Cell and Gene Therapies for Fanconi Anemia	Agnieszka Czechowicz Stanford University School of Medicine, Dept of Pediatrics Div. of Stem Cell Transplantation and Regenerative Medicine, Stanford, US	
	KEYNOTE ADDRE		
India Time	Chair: Alok Srivas	tava Speaker Name	
IIIuia IIIIle		Khalid Shah	
6:45 to 7:45 PM	The Concept of Innovation and Orchestration: Translating Engineered Cellular Therapies from Bench to	Center for Stem Cell and Translational Immunotherapy,	

End of Day-1

Brigham and Women's Hospital and Harvard Stem Cell

Institute, Cambridge, USA

DAY-2: Friday, 2nd August, 2024

	Session-4: INDUSTRY UPDA	<u> </u>	
	Chair: Praveen Kumar Ver		
India Time	Title	Speaker Name	
12:00 to 12:20 PM	Non-Viral Chimeric Antigen Receptor (CAR) T Cells going Viral: Process Studies from Stanford Center for Cancer Cell	Vimal Keerthi Stanford University School of Medicine, California, US	
12: 20 to 12:40 PM	Writing the Future of Biologics with an Integrated Offering of Immunization, Libraries, and Machine Learning	Jay Yang Twist Bioscience, San Francisco, California, US	
12:40 to 1:00 PM	Transforming Viral Vector Production: Enhancing Efficiency and Scale-Up with OmniBRx's Dynamic Bed Reactor Technology	Ravindra Patel OmniBRx Biotechnologies Pvt Ltd. Ahmedabad, Gujarat, India	
1:00 to 2:00 PM	Lunch Break		
	Session-5: APPLICATION OF IF Chair: Maneesha S. Inamo Co-Chair: Dhandapani Perur	dar	
India Time	Title	Speaker Name	
2:00 to 2:30 PM	Challenges for the development of pluripotent stem cell based therapies and the role of international standards.	Glyn Stacey International Stem Cell Banking Initiative, Barley, UK	
2:30 to 3:00 PM	Developing iPSC-derived RPE cell replacement therapy for the treatment of AMD	Rajarshi Pal Eyestem Research, Centre for Cellular and Molecular Platforms (C-CAMP), Bangalore, India	
3:00 to 3:30 PM	Developing iPSC technologies to impact current challenges in the production of cell therapies	Julia Neubauer Fraunhofer Institute for Biomedical Engineering IBMT, Germany	
3:30 to 3:45 PM	Break	•	
	Session-6: GENE THERAF Chair: Matthew Porteus		
India Time	Title	Speaker Name	
3:45 to 4.15 PM	New insights into the use of gamma delta T cells to treat childhood cancers	H. Trent Spencer Emory University School of Medicine, Atlanta, USA	
4:15 to 4:45 PM	Development of genome-modified generation ZZ (GenZZ) single-stranded AAV vectors with improved transgene expression	Arun Srivastava University of Florida, Florida, USA	
4:45 to 5:15 PM	Preclinical development of gene therapy for Diamond-Blackfan anemia	Senthil Bhoopalan St. Jude Children's Research Hospital, Memphis, USA	
5:15 to 6:00 PM	Poster presentation and Industr		
	Session-7: Challenges And Opportunities Chair: RV Shaji	In Gene Therapy	
India Time	Title	Speaker Name	
6:00 to 6:30 PM	Development of pathophysiologicallyrelevant models of β-hemoglobinopahtues for therapeutic studies	Sivaprakash Ramalingam CSIR–Institute Of Genomics And Integrative Biology (CSIR–IGIB), New Delhi, India	
6:30 to 7:00 PM	CAR T-cell induced T-cell malignancies	Nirali Shah Center for Cancer Research, National Cancer Institute, Maryland, US	
7:00 to 7:30 PM	Genome Editing of HSCs to Develop Stem Cell Based Therapies	Matthew Porteus Stanford School of Medicine, California, USA	
	KEY NOTE ADDRESS		
India Time	Chair: Sanjay Singh Title	Speaker Name	
7:30 to 8:30 PM	Gene therapy for haemophilia in India – The beginning of a New Era	Alok Srivastava Centre for Stem Cell Research, a unit of inStem, Bengaluru and Department of Haematology, Christian Medical College, Vellore, India	

DAY-3: Saturday, 3rd August, 2024

	Session-8: INDUSTRY UPDA	TES
ludia Tima	Chair: Arvind Ramanath	
India Time	Title	Speaker Name
12:20 to 12:40 PM	Autologous CAR-T Cell Therapy Manufacturing Solution	Pankaj Salvi Cytiva, Marlborough, US
12:40 to 01:00 PM	Thermo Fisher Scientific: Cell & Gene Therapy capabilities overview	Uchenna Waturuocha Thermo Fisher Scientific, Mumbai, India
01:00 to 02:00 PM	Lunch Break	
	Session-9: NON-VIRAL VECTOR BASED Chair: N. Madhusudhana	
India Time	Title	Speaker Name
2:00 to 2:30 PM	Enhancing Natural killer cells proliferation and cytotoxicity using Imidazole-based lipid nanoparticles encapsulating interleukin-2 mRNA	Chantal Pichon INSERM and University of Orléans, Orléans, France: Institut Universitaire de France, Paris
2:30 to 3:00 PM	MSC Extracellular Vesicles: Navigating Regenerative Medicine's Therapeutic Landscape	Sujata Mohanty All India Institute of Medical Sciences New Delhi, India
3:00 to 3:30 PM	Long-lasting mRNA enabled protein replacement therapy with liver-specific lipid nanoparticle system: Haemophilia B as a model disease	Srujan Marepally Centre for Stem Cell Research (a unit of inStem, Bengaluru), Vellore, India
3:30 to 3:45 PM	Break	
3:45 to 4:30 PM	Poster presentation and Indu	stry Exhibition
	Session-10: GENE EDITIN Chair: Sanjeev Galande	
India Time	Title	Speaker Name
4:30 to 5:00 PM	Genome editing strategies for treating sickle cell disease	Thiyagaraj Mayuranathan Centre for Stem Cell Research (a unit of inStem, Bengaluru), Vellore, India
	Epitope Editing for an Immunotherapy "Stealth"	Pietro Genovese
5:00 to 5:30 PM	Hematopoiesis	Harvard Medical School, Boston, USA
5:30 to 5:30 PM 5:30 to 6:00 PM	1	·
	Hematopoiesis Next-generation gene editing of human hematopoietic	Boston, USA Samuele Ferrari San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Milan, Italy
5:30 to 6:00 PM	Next-generation gene editing of human hematopoietic stem cells: from research to clinical translation Session-11: IMMUNE CELL THI	Boston, USA Samuele Ferrari San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Milan, Italy
	Next-generation gene editing of human hematopoietic stem cells: from research to clinical translation Session-11: IMMUNE CELL THI Chair: Amit Awasthi	Boston, USA Samuele Ferrari San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Milan, Italy ERAPY
5:30 to 6:00 PM	Next-generation gene editing of human hematopoietic stem cells: from research to clinical translation Session-11: IMMUNE CELL THI Chair: Amit Awasthi Title CART Therapy in Pediatric Acute Lymphoblastic	Boston, USA Samuele Ferrari San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Milan, Italy ERAPY Speaker Name Sunil Bhat Mazumdar Shaw Medical Centre, Narayana Health City, Bangalore, India Yoshiyuki Takahashi Nagoya University Graduate School of Medicine, Nagoya, Japan
5:30 to 6:00 PM India Time 6:00 to 6:30 PM	Next-generation gene editing of human hematopoietic stem cells: from research to clinical translation Session-11: IMMUNE CELL THI Chair: Amit Awasthi Title CART Therapy in Pediatric Acute Lymphoblastic Leukemia Development of CAR-T cell products with non-viral vector	Boston, USA Samuele Ferrari San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Milan, Italy ERAPY Speaker Name Sunil Bhat Mazumdar Shaw Medical Centre, Narayana Health City, Bangalore, India Yoshiyuki Takahashi Nagoya University Graduate School of Medicine,
5:30 to 6:00 PM India Time 6:00 to 6:30 PM 6:30 to 7:00 PM	Next-generation gene editing of human hematopoietic stem cells: from research to clinical translation Session-11: IMMUNE CELL THI Chair: Amit Awasthi Title CART Therapy in Pediatric Acute Lymphoblastic Leukemia Development of CAR-T cell products with non-viral vector system Genetic manipulation of NK cells for enhanced	Boston, USA Samuele Ferrari San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Milan, Italy ERAPY Speaker Name Sunil Bhat Mazumdar Shaw Medical Centre, Narayana Health City, Bangalore, India Yoshiyuki Takahashi Nagoya University Graduate School of Medicine, Nagoya, Japan Rizwan Romee Harvard Medical School, Dana Farber Cancer Institute, Boston, USA