

18-20 January 2024

THE FUTURE IS HERE

GENE THERAPY, CELL THERAPY, & BIOMATERIALS IN OPHTHALMOLOGY



PROGRAM SCHEDULE

Day 1: Thursday, 18th January 2024

Timings	Event & Session details	Speakers/Experts/Panellists
02:00 PM – 02:30 PM Venue: Patodia Auditorium, LVPEI	Registration of Participants and Delegates	
02:30 PM – 03:00 PM Venue: Patodia Auditorium, LVPEI	Inauguration and Welcome address (Sayan Basu)	
03:00 PM - 06:15 PM	<p>NAVIGATING INDIA'S CLINICAL TRAIL REGULATIONS: IMPACT ON GLOBAL COMPLIANCE</p> <p>Session Moderators: Arkasubhra Ghosh & Vivek Singh</p> <p>Co-ordinator: Vijay Singh & Chetan</p>	<p>Sayan Basu (LVPEI) Mala Srivastava (Nextvel Consulting LLP) Che Connon (NCU, UK) Yonathan Garfias (CDV, Mexico) Geeta Jotwani (ICMR) CDSCO member (TBD) NNF team (Sharath, Poorna, Pooja)</p>
03:00 PM - 03:10 PM	Conference Kick off : Landscape of CGT research in India (Arkasubhra Ghosh)	
03:10 PM - 03:35 PM	SPEAKER : Geeta Jotwani TITLE : Evolution of the regulatory and scientific pathway for gene therapy in India	
03:35 PM - 04:00 PM	SPEAKER : Priya Panikker/ Vivek Singh TITLE : Scaling up regenmed from lab scale to clinical scale – IND enabling studies	
04:00 PM - 04:25 PM	SPEAKER : Sharath Babu TITLE : CMC and product safety considerations for clinical grade GT products	
04:25 PM - 04:50 PM	SPEAKER : Sayan Basu TITLE : Designing CGT clinical trials in Ophthalmology, patient considerations and outcome monitoring.	
04:50 PM – 05:05 PM	SPEAKER : Yonathan Garfias TITLE : Regulatory status in stem cell therapy, a mexican perspective	
05:05 PM - 05:20 PM	SPEAKER : Mala Srivastava TITLE : Experience with clinical trial; Roadmap and Troubleshooting	
05:20 PM – 06:00 PM	Update on LVPEI Clinical Trial and GMP Facility (Vivek, Sayan & Chetan)	
06:00 PM - 06:30 PM	<p>BRAINSTORMING SESSION</p> <ul style="list-style-type: none"> • Application process pitfalls • Hand-holding process for IND filing • Common challenges – technology, ATMP process, trial readouts • Awareness and common confusions 	
<p>NETWORKING/POSTER SESSIONS/DINNER : 07:00 PM onwards ; VENUE: PARK HYATT - Salon II & III</p>		

Day 2: Friday, 19th January 2024 (SESSION-1)

Timings & Venue	Event & Session details	Speakers/Experts/Panellists
09:00 AM - 12:30 PM	<p>ADVANCEMENTS AND PROSPECTS IN OCULAR GENE THERAPY FOR VISION DISORDERS</p> <p>Session Moderators: Arkasubhra Ghosh & Kapil Bharti</p> <p>Co-ordinators: Mohd Salman & Sonali Mohapatra</p>	<p>Kapil Bharati (NEI,USA) Arkasubhra Ghosh (NN) Rajiv Mohan (Missouri,USA) Mathew Campbell (Dublin University) NN team (Pooja, Poorna, Chitra, Priya) Debojyoti Chakroborty (IGIB) Anshuman Verma(LVPEI)</p>
09:00 AM - 09:10 AM	Session Beginnings	
09:10 AM - 09:30 AM	<p>SPEAKER : Rajiv Mohan TITLE : Tissue-targeted topical gene therapy for corneal fibrosis treatment</p>	
09:30 AM - 09:50 AM	<p>SPEAKER : Mathew Campbell TITLE : Retinal Gene Therapy for human applications</p>	
09:50 AM - 10:10 AM	<p>SPEAKER : Pooja Khamar TITLE : Lysyl Oxidase gene therapy for Keratoconus</p>	
10:10 AM - 10:30 AM	<p>SPEAKER :Debojyoti Chakroborty TITLE : Gene editing technologies for ocular conditions</p>	
TEA BREAK (10:30 AM – 10:50 AM)		
10:50 AM - 11:10 AM	<p>SPEAKER : TBD TITLE : TBD</p>	
11:10 AM – 11:30 AM	<p>SPEAKER : Anshuman Verma TITLE : Translating genetic information into clinical and therapeutic perspective</p>	
11:30 AM – 11:50 AM	<p>SPEAKER : Chitra Gopinath TITLE : Gene Therapy for Stargardt disease</p>	
11:50 AM - 12:30 PM	<p>BRAINSTORMING SESSION</p> <ul style="list-style-type: none"> Key questions Leveraging technologies for rapid developments, reducing R&D cycles Developing adaptable technologies for disease modelling for rare conditions Technologies towards reducing dosage, immune response 	
BON APPÉTIT (12:30 PM - 01:30 PM)/ POSTER SESSIONS ; VENUE: ART GALLERY,LVPEI		

Day 2: Friday, 19th January 2024 (SESSION-2)

Timings & Venue	Event & Session details	Speakers/Experts/Panellists
01:30 PM - 05:30 PM	<p>CELL BASED THERAPY: REPAIR, REGAIN AND REGENERATION</p> <p>Session moderators: Sayan Basu & Heli Skottman</p> <p>Co-ordinators: Tejaswini Pingali & Suraj Kumar Rajak</p>	<p>Heli Skottman (TAU, Finland) Che Connon (NCU, UK) Kapil Bharti (NEI, USA) Kiran Kumar Bokara (CCMB) Arkasubhra Ghosh (NN) Vivek Singh (LVPEI) Sayan Basu (LVPEI) Swati Singh (LVPEI) Sachin Shukla (LVPEI) Yonathan Garfias (CDV, Mexico) Jogin Desai (Eystem)</p>
01:30 PM - 01:40 PM	Session Beginnings	
01:40 PM - 02:05 PM	<p>SPEAKER : Heli Skottman TITLE : Development of pluripotent stem cell based therapies for limbal stem cell deficiency</p>	
02:05 PM - 02:30 PM	<p>SPEAKER : Che Connon TITLE : Role of mechano-transduction in corneal epithelial homeostasis</p>	
02:30 PM - 02:55 PM	<p>SPEAKER : Kapil Bharti TITLE : Development of a cell therapy for AMD</p>	
TEA BREAK (02:55 PM - 03:15 PM) / POSTER SESSIONS		
03:15 PM - 03:40 PM	<p>SPEAKER : Yonathan Garfias TITLE : Limbal Stem cells, from basics to clinics</p>	
03:40 PM - 04:05 PM	<p>SPEAKER : Sayan Basu TITLE : MSCs in Corneal Repair and Regeneration</p>	
04:05 PM - 04:30 PM	<p>SPEAKER : Jogin Desai TITLE : Update on RPE cell therapy in India</p>	
04:30 PM - 04:55 PM	<p>SPEAKER : Sachin Shukla TITLE : MSC derived extracellular vesicles in corneal repair & immunomodulation.</p>	
04:55 PM - 05:20 PM	<p>SPEAKER : Kiran Kumar Bokara TITLE : Animal models for ocular research</p>	
05:20 PM - 05:30 PM	<p>SPEAKER : Swati Singh TITLE : Lacrimal Gland Repair & Regeneration</p>	
05:30 PM - 05:40 PM	<p>SPEAKER : Geeta Vemuganti TITLE : Scope of Lacrimal Gland Regeneration</p>	
05:40 PM - 06:00 PM	Selected e-posters of participants/PhD/PostDocs/Clinical Fellows	
06:00 PM - 06:30 PM	<p>GROUP EXERCISE / FUTURE GRANT DISCUSSIONS</p> <ul style="list-style-type: none"> Current status, Are we still there ? Limbal Stem cells vs Mesenchymal Stem Cells; from other sources. Best Dose/ Single or Multiple. Immunosuppressant, Is it needed? For how long? 	
GALA DINNER & CULTURAL PROGRAM : 07:15 PM onwards; VENUE: PARK HYATT - BALLROOM		

Day 3: Saturday, 20th January 2024

Timings & Venue	Event & Session details	Speakers/Experts/Panellists
09:00 AM - 12:30 PM	<p>EXPLORING BIOMATERIALS IN OCULAR DISEASE RESEARCH</p> <p>Session Moderators: Che Connon , Falguni Pati, Vineet Joshi</p> <p>Co-ordinators: Deeksha Prasad & Arun Kumar Raut</p>	<p>Heli Skottman (TAU, Finland) Che Connon (NCU, UK) Sayan Basu (LVPEI) Nirmal J (BITS Pilani, Hyd) Falguni Pati (IITH), Swati Singh (LVPEI) Charanya Ramachandran (LVPEI) Sanhita Roy (LVPEI)</p>
09:00 AM - 09:10 AM	Commencements / Session Beginnings	
09:10 AM - 09:35 AM	<p>SPEAKER : Heli Skottman TITLE : Development of functional bioink platform and 3D bioprinting to cure corneal blindness</p>	
09:35 AM - 10:00 AM	<p>SPEAKER : Che Connon TITLE : What can Tissue Engineering tell us about the biology of the cornea?</p>	
10:00 AM - 10:25 AM	<p>SPEAKER : Falguni Pati TITLE : 3D bioprinting of corneal stroma with a biometric hydrogel</p>	
10:25 AM - 10:50 AM	<p>SPEAKER : Charanya Ramachandran TITLE : Taking the silk route: Silk fibroin for the culture of corneal endothelium</p>	
TEA BREAK (10:50 AM - 11:10 AM) / POSTER SESSIONS		
11:10 AM - 11:25 AM	<p>SPEAKER : Vineet Joshi TITLE : Exploring new materials and techniques for corneal hydrogel</p>	
11:25 AM - 11:40 AM	<p>SPEAKER : Nirmal Jayabalan TITLE : Role of biomaterials in ocular drug delivery</p>	
11:40 AM - 12:00 PM	<p>SPEAKER : Pravin Krishna Vaddavalli TITLE : Xenia for Keratoconus</p>	
12:00 PM - 12:15 PM	<p>SPEAKER : P V Mohanan TITLE : Peptide embedded hydrogel to combat corneal infections</p>	
12:15 PM - 12:30 PM	<p>SPEAKER : Viswanath Chinthapenta TITLE : TBD</p>	
12:30 PM - 01:00 PM	<p>BRAINSTORMING SESSION</p> <ul style="list-style-type: none"> • Suturibility & Tensile strength. • Transperency vs Stiffness vs Cross linking. • Full thickness vs Stromal Length. 	
01:30 PM - 02:00 PM	<ul style="list-style-type: none"> • AWARD CEREMONY • VOTE OF THANKS 	
BON APPÉTIT : 02:00 PM onwards ; VENUE: ART GALLERY, LVPEI		