

# PRIME Summit

## Progress in Regenerative & Investigational Medicine in Eye

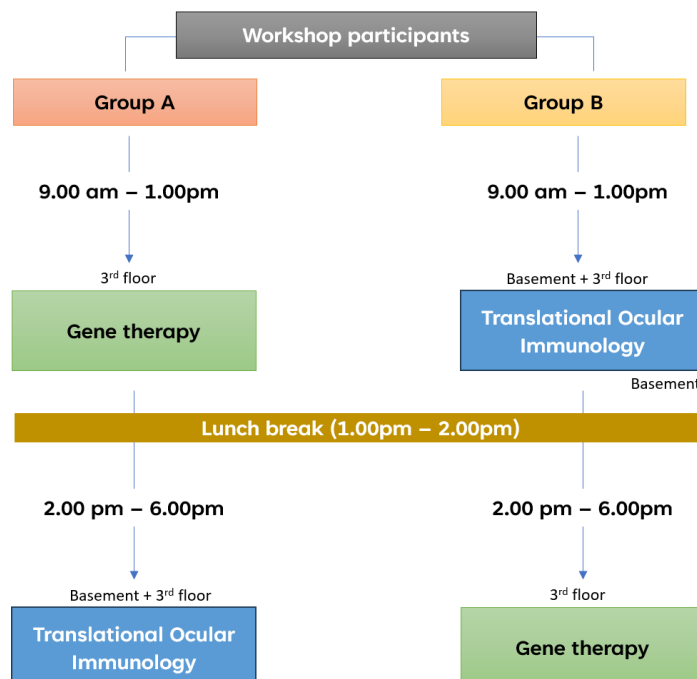
December 8 – 10, 2023 | Bangalore, India

Organized by: GROW Research Laboratory | Narayana Netralaya Foundation | Narayana Nethralaya

Friday, Dec 8, 2023 | GROW Research Laboratory, Narayana Nethralaya, Bommasandra, Hosur Road, Bangalore

### Gene therapy & Translational Ocular Immunology Workshops

8.45am - 9.00am	Registration
9.00am - 6.00pm	<b>Workshops</b>
(I)	<b>Ocular Gene Therapy - Workshop</b>
	(i) Vector design
	(ii) Vector production (upstream and downstream process platforms)
	(iii) Gene therapy applications in ophthalmology
	(iv) Regulations in Gene Therapy
(II)	<b>Translational Ocular Immunology - Workshop</b>
	(i) Overview of ocular immune monitoring
	(ii) Sample collection and Storage (Tears; AqH, VH, OSW, other ocular fluids/samples)
	(iii) Multiplex ELISA (Bead-based; Microfluidics – with Live Demo)
	(iv) Immunophenotyping (with Live Demo)
	(v) Analysis - Basic; high-dimensional
	(vi) ELISPOT



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Saturday & Sunday, Dec 9 – 10, 2023 | The Oterra Hotel, Electronic city, Phase 1, Bangalore

9th December 2023 (Saturday)

Time	Title	Name
8.30am - 8.50am	Registration	
8.50am - 9.00am	Inauguration	
9.00am - 9.15am	Overview of the meeting	Organizing secretary
<b>(Dr K Bhujang Shetty Oration Lecture)</b>		
9.15am - 10.15am	The pinnacle pursuit of atrophic AMD therapy in the Pittsburgh-Bengaluru collaboration: Achieving the visionary dream of Dr K Bhujang Shetty	Prof Debasish Sinha
10.20am - 10.30am	Intraocular molecular signature associated with glaucoma progression and response to medication	Dr Sushma Tejwani
<b>10.45am - 11.15am</b>	<b>Tea break</b>	
11.15am - 11.30am	Correlation of activated IL-17+ T cells and inflammatory cytokines with the clinical phenotype of TB uveitis	Dr Nivedita Chatterjee
11.30am - 11.45am	Regulation of inflammatory response in corneal infection: the dualism of MIF signaling	Dr Swagata Ghosh
11.45am - 12.00pm	Role of IL-6 and IL-17C in viral keratitis	Dr Anil Tiwari
12.00pm - 12.10pm	Natural killer cells in dry age-related macular degeneration	Ms Archana P Nair
12.10pm - 12.25pm	Retinoblastoma: Genetics to Therapeutics	Dr A Vanniarajan
12.25pm - 12.40pm	Tear based prediction in retinoblastoma	Dr Gagan Dudeja
12.40pm - 12.50pm	Unique phase altered retinal features of IRD patients quantified with polarised light imaging	Mr Rahul Patil
12.50pm - 1.00pm	Nanoparticle-based prophylactic drug delivery to protect the barrier function of donor corneal endothelium from hypothermia-induced damage during storage	Dr Sudhir H Ranganath
<b>1.00pm - 2.30pm</b>	<b>Lunch + Poster Session</b>	
2.30pm - 2.50pm	The interplay of mechanical homeostasis in cellular mechanobiology in tissue health and disease	Prof Namrata Gundiah
2.50pm - 3.05pm	Corneal wound healing; LVPEI update and it's impact	Dr Vivek Singh
3.05pm - 3.15pm	iPSC-derived model to study Fuchs' endothelial dystrophy	Ms Divyani Nayak
3.15pm - 3.30pm	Cell-based therapeutics for Inherited Eye Diseases	Dr Indumathi Mariappan
3.30pm - 4.15pm	Shedding Light on Inherited Ocular Disorders - Elucidating Causes, Designing Gene Therapies	Prof Gwyneth Farrar
4.15pm - 4.45pm	Repairing diseased blood barriers in the eye to prevent retinopathies and fibrosis	Dr Peter Westenskow
<b>4.45pm - 5.00pm</b>	<b>Tea break</b>	
5.00pm - 5.30pm	Single topical decorin-PEDF combination gene therapy repeals corneal fibrosis and neovascularization in an established in vivo rabbit model	Prof Rajiv Mohan
5.30pm - 6.30pm	Seeing the Light with Retinal Gene Therapy	Prof Jean Bennett
		<b>Moderator</b> Prof K Dharmalingam
		<b>Expert Panel</b>
6.30pm - 7.30pm	Panel discussion (Initiating and sustaining research career in India)	Prof Debasish Sinha Prof Namrata Gundiah Prof S Madhavan Prof Everette JRN Dr P Sundaresan Dr Sudhir H Ranganath
<b>7.30 PM</b>	<b>Dinner</b>	

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10th December 2023 (Sunday)

Time	Title	Name
8.30am - 9.00am	Development of endpoints for a clinical trial in BEST1 inherited retinal dystrophy	Dr Ashwath Jayagopal
9.00am - 9.30am	Eyes on the Future: Navigating Ocular Models in Gene and Cell Therapy Exploration	Dr Barathi V A
9.30am - 9.50am	Navigating the translational route of CRISPR therapies in India	Dr Debojyoti Chakraborty
9.50am - 10.10am	Developing an autologous iPSC based cell replacement therapy for AMD	Dr Ruchi Sharma
<b>10.10am - 10.30am</b>	<b>Tea Break</b>	
		<b>Moderators</b> Dr Arkasubhra Ghosh Dr Vivek Singh
		<b>Expert Panel</b> Dr Andrew Low Ms Mala Srivastava Dr Sridevi Khambhambaty Prof Radha Annamalai Dr Thirumalesh M B Dr V Ramprasad Dr Geeta Jotwani CDSCO representative
10.30am - 12.30pm	Brainstorming session 1 (Translational road map for regenerative medicine in India)	
12.30pm - 1.00pm	Tear fluid research today and in the future	Dr Marlies Gijis
<b>1.00pm - 2.00pm</b>	<b>Lunch</b>	
2.00pm - 2.15pm	Accelerate your cell and gene therapy workflows with next generation analytical tools	Mr Manish Singh
2.15pm - 2.30pm	ATMP production process	Dr Andrew Low
2.30pm - 2.40pm	Unlocking the potential: Illuminating AAV capsid protein post-translational modifications for gene therapy applications	Mr Ramraj Kannan
2.40pm - 2.50pm	Dual vector strategy for gene therapy	Dr Chitra Gopinath
2.50pm - 3.00pm	Electrophysiological aspects of inherited retinal dystrophies	Dr Poornachandra B
		<b>Moderators</b> Dr Naren Shetty Dr P Sundaresan
		<b>Expert panel</b> Prof Everette JRN Dr Poornachandra B Dr Sushma Tejwani Dr S Sripriya Ms Bindu Sharma
3.00pm - 4.00pm	Brainstorming session 2 (Identifying clinical problems and organizing research strategies relevant to India)	
<b>4.00pm - 5.00pm</b>	<b>Concluding remarks; Poster prize announcement; Vote of thanks</b>	Organizing secretary

# Faculty

## International

**Prof. Jean Bennett** | Endowed Professor, Univ. of Pennsylvania | USA (creator of Luxturna)  
**Prof. Shomi S Bhattacharya** | Emeritus Professor, University College London | UK  
**Prof. Debasish Sinha** | Endowed Professor, Univ. of Pittsburgh | USA  
**Prof. Rajiv Mohan** | Endowed Professor, Univ. of Missouri | USA  
**Prof. Gwyneth Farrar** | Professor, Trinity College Dublin | Ireland  
**Dr. Barathi VA** | Asst. Director, Singapore Eye Research Institute | Singapore  
**Dr. Peter Westenskow** | Section Head, Hoffman La-Roche | Switzerland  
**Dr. Marlies Gijs** | Asst. Prof, Maastricht University | Netherlands  
**Dr. Ashwath Jayagopal** | CSO, Opus Genetics | USA  
**Dr. Ruchi Sharma** | National Eye Institute, NIH | USA

## National

**Prof. K. Dharmalingam** | Director, Aravind Medical Research Foundation | Madurai  
**Prof. Namrata Gundiah** | Professor, Indian Institute of Science | Bangalore  
**Prof. S Mathavan** | Chief Scientist, Vision Research Foundation, Sankara Nethralaya | Chennai  
**Prof. Radha Annamalai** | HoD, Ophthalmology, SRIHER | Chennai  
**Dr. Sundaresan P** | Senior Scientist, Aravind Medical Research Foundation | Madurai  
**Dr. Debojyoti Chakraborty** | Scientist, CSIR-IGIB | New Delhi  
**Dr. Naren Shetty** | Vice Chairman & Consultant, Narayana Nethralaya | Bangalore  
**Dr. Vivek Singh** | Scientist, L V Prasad Eye Institute | Hyderabad  
**Dr. Indumathi Mariappan** | Scientist, L V Prasad Eye Institute | Hyderabad  
**Dr. Nivedita Chatterjee** | Scientist, Vision Research Foundation, Sankara Nethralaya | Chennai  
**Dr. Vanniarajan A** | Scientist, Aravind Medical Research Foundation | Madurai  
**Dr. Sripriya S** | Scientist, Vision Research Foundation, Sankara Nethralaya | Chennai  
**Dr. Swagata Ghosh** | Ramalingaswami Fellow, Aravind Medical Research Foundation | Madurai  
**Dr. Everette JR Nelson** | Assoc. Prof, Vellore Institute of Technology | Vellore  
**Dr. Anil Tiwari** | Scientist D, Dr. Shroffs Charity Eye Hospital | New Delhi  
**Dr. Sudhir H Ranganath** | Asst. Prof., Siddaganga Institute of Technology | Tumkur  
**Dr. Sushma Tejwani** | Consultant, Glaucoma, Narayana Nethralaya | Bangalore  
**Dr. Gagan Dudeja** | Consultant, Oculoplasty & Ocular Oncology, Narayana Nethralaya | Bangalore  
**Dr. Poornachandra B** | Consultant, Retina, Narayana Nethralaya | Bangalore  
**Dr. Thirumalesh M B** | Consultant, Retina, Narayana Nethralaya | Bangalore

## Clinical

Clinician scientists and ophthalmologists from hospitals and institutes across the country to participate in discussions and brainstorming sessions.

## Industry & Regulators

Experts from the biotechnology and gene therapy industry and clinical regulators to participate in the panel discussions.

### Chief Patrons

**Dr. Rohit Shetty**  
Chairman | Narayana Nethralaya

**Dr. Naren Shetty**  
Vice Chairman | Narayana Nethralaya

**Prof. Shomi S. Bhattacharya**  
Emeritus Prof. | University College London  
Chief Scientific Advisor | Narayana Nethralaya Foundation

### Organising team

Dr. Arkasubhra Ghosh  
Dr. Narendra P  
Dr. G. Kumaramanickavel  
Dr. Abhijit Sinha-Roy  
Dr. Gagan Dudeja  
Dr. Anuprita Ghosh  
Dr. Nallathambi Jeyabalan  
Dr. Swaminathan Sethu