



ARVO-INDIA

Indian Eye Research Group

28th Annual Meeting of the Indian Eye Research Group

September 10, 2022 (Saturday)

SESSION	TIME	SPEAKER	TOPIC
Inauguration Moderator: Sayan Basu	09.00 - 09.07	Prashant Garg <i>LV Prasad Eye Institute, Hyderabad</i>	Welcome address
	09.07 - 09.14	Ronnie George <i>Sankara Nethralaya, Chennai</i>	Presidential address
	09.15 - 09.30	Gullapalli N. Rao <i>LV Prasad Eye Institute, Hyderabad</i>	Moving forward in eye research: An ARVO-India perspective
Session I Moderators: N. Angayarkanni Inderjeet Kaur	09.30 - 09.50	KEYNOTE I Manish Jaiswal <i>Tata Institute of Fundamental Research, Hyderabad</i>	Novel insight into retinal degeneration caused by mitochondrial dysfunction using <i>Drosophila</i>
	09.50 - 10.05	Special Talk I Sharada Ramsubramanyan <i>Sankara Nethralaya, Chennai</i>	The impact of molecular modifications in regulating cellular homeostasis and disease development: An ocular perspective
	10.05 - 10.15	FPI Anwar A. Palakkan <i>Aravind Medical Research Foundation, Madurai</i>	Generation of enriched population of retinal pigment epithelial cells from human induced pluripotent stem cells for retinal disease modelling
	10.15 - 10.25	FP2 Ashu Shukla <i>Postgraduate Institute of Medical Education and Research, Chandigarh</i>	The fifth Fibronectin type III-like (Tn fnIII) domain of Tenascin-C (Tn fnIII 5) facilitates corneal wound healing
	10.25 - 10.35	FP3 Anannya Tuli <i>All India Institute of Medical Sciences, New Delhi</i>	Evaluation of anti-angiogenic and anti-fibrotic potential of dipyridamole using cautery induced rat model
	10.35 - 10.45	FP4 Divya Piddishetty <i>LV Prasad Eye Institute, Hyderabad</i>	Assessment of visual behaviour in retinal degeneration models of zebrafish: feed capture maze paradigms and optokinetic response device
	10.45 - 11.00	Special Talk 2 Gowripriya Chidambaranathan <i>Aravind Medical Research Foundation, Madurai</i>	Biology of adult ocular stem cells and their role in regenerative medicine
BREAK	11.00 - 11.30	TEA / COFFEE	
Session II Moderator: Chitra Kannabiran	11.30 - 11.45	Special Talk 3 A. Vanniarajan <i>Aravind Medical Research Foundation, Madurai</i>	Epigenetic alterations in retinoblastoma
	11.45 - 12.05	KEYNOTE 2 T. Velpandian <i>All India Institute of Medical Sciences, New Delhi</i>	Re-engineering ophthalmic therapeutics: Off-label to On-table
Session III Moderator: D. Balasubramanian	12.05 - 13.00	BIRESWAR CHAKRABARTI ORATION J. Mark Petrash <i>University of Colorado, Colorado, USA</i>	Pathogenesis and novel therapies for cataracts and lens disorders
BREAK	13.00 - 14.00	LUNCH	

SESSION	TIME	SPEAKER	TOPIC
Session IV E - Posters	14.00 - 15.00	Poster Session - I	
Session V Moderators: S. Senthilkumari Sanhita Roy	15.00 - 15.10	FP5 Priyasha Mishra <i>LV Prasad Eye Institute, Hyderabad</i>	Inhibitory role of S100A12 against <i>Pseudomonas aeruginosa</i>
	15.10 - 15.20	FP6 Subramanian R. Bharathidevi <i>Sankara Nethralaya, Chennai</i>	<i>In silico</i> design and development of mutated <i>PON2</i> by site directed mutagenesis and assesment of its function in <i>in vitro</i> cell model of HREC's upon CML treatment
	15.20 - 15.30	FP7 Iswarya Radhakrishnan <i>Aravind Medical Research Foundation, Madurai</i>	Trabecular meshwork stem cell derived exosomes enhance TM cell survival and proliferation
	15.30 - 15.40	FP8 Sushma Vishwakarma <i>LV Prasad Eye Institute, Hyderabad</i>	miRNA regulates potential genetic pathways involved in diabetic retinopathy: implications for an early disease diagnosis
	15.40 - 16.00	KEYNOTE 3 Sushmita Kaushik <i>Postgraduate Institute of Medical Education and Research, Chandigarh</i>	Genetic aspects of congenital glaucoma: A clinician's tentative Journey
BREAK	16.00 - 16.30	TEA / COFFEE	
Session VI Moderators: S. Ramsubramanyan Soumyava Basu	16.30 - 16.40	FP9 Divyani Nayak <i>Narayana Nethralaya, Bengaluru</i>	Efficient generation of iPSC derived corneal endothelial cells via neural crest fate induction
	16.40 - 16.50	FPI0 Muthuramalingam Karpagavalli <i>Pondicherry University, Pondicherry</i>	Identification of tRNA derived piwi-interacting RNAs in retinal pigment epithelial cells
	16.50 - 17.00	FPI I Lakshmi Badrinarayanan <i>Sankara Nethralaya, Chennai</i>	Frequency, risk factors and genetic determinants associated with intravitreal steroid-induced ocular hypertension
Session VII Moderator: Sayana Basu	17.00 - 17.10	Industry talk-I	TBA
	17.10 - 17.20	Industry talk-II	TBA
	17.20 - 17.30	Industry talk-III	TBA
IERG Quiz Moderators: Anthony V. Das Inderjeet Kaur	17.30 - 18.30	iQUEST (Online)	
Dinner	19.00 onwards	Venue: Park Hyatt, Road No. 2, Banjara Hills, Hyderabad	



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September 11, 2022 (Sunday)

SESSION	TIME	SPEAKER	TOPIC
Session VIII Moderators: G. Chidambaranathan Swathi Kaliki	09.00 - 09.10	FPI2 Naheed Afrin Borah <i>LV Prasad Eye Institute, Bhubaneswar</i>	Therapeutic targeting of aurora kinase A and investigating its association with MYCN oncogene in human retinoblastoma
	09.10 - 09.20	FPI3 Rizza Abdul Nayeem <i>Sankara Nethralaya, Chennai</i>	Epigenetic biomarkers in diabetic retinopathy cohorts of a South Indian population
	09.20 - 09.30	FPI4 Velmurugan Kailasam <i>Birla Institute of Technology and Science - Pilani, Hyderabad</i>	Enhancing the stability of Amphotericin-B using polymeric patch for corneal delivery
	09.30 - 09.40	FPI5 Tanmoy Dutta <i>Dr. Shroff's Charity Eye Hospital, Delhi</i>	Downregulation of KLF4 and prolonged inflammations are associated with persistent epithelial defect
	09.40 - 09.55	Special Talk 4 Mamatha Reddy <i>LV Prasad Eye Institute, Bhubaneswar</i>	The MYCN oncogene in retinoblastoma: Regulation of metabolic reprogramming and cell cycle
Session IX Moderator: K. Dharmalingam	09.55 - 11.00	D BALASUBRAMANIAN ORATION K.Thangaraj <i>DBT - Centre for DNA Fingerprinting and Diagnostics, Hyderabad</i>	Population genomics and public health
BREAK	11.00 - 11.30	TEA / COFFEE	
Session X Moderators: Nirmal Jayabalan Mamatha Reddy	11.30 - 11.40	FPI6 Mehak Vohra <i>Dr. Shroff's Charity Eye Hospital, Delhi</i>	Bioengineered liquid cornea: Prevents scarring in mechanical injury wound model of rabbits
	11.40 - 11.50	FPI7 Deepika C. Parameswarappa <i>LV Prasad Eye Institute, Hyderabad</i>	Comparison of retinal pigmented epithelial cell viability with 41G and 29G cannula – an <i>in vitro</i> experiment
	11.50 - 12.05	Special Talk 5 J. Narayanan <i>Sankara Nethralaya, Chennai</i>	Mechanobiological investigations using corneal epithelial cells and keratoconus as model system
Session XI Moderator: Ronnie George	12.05 - 13.00	S. S. BADRINATH ORATION Mahesh P. Shanmugam <i>Sankara Eye Hospital, Bengaluru</i>	Where there is a will, there's a way
BREAK	13.00 - 14.00	LUNCH	

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Session XII E - Posters	14.00 - 15.00	Poster Session - II ; Johnson & Johnson Symposium	
Session XIII Moderators: Virender Sachdeva T. Velpandian	15.00 - 15.20	FP18 Manoj K. Manoharan <i>LV Prasad Eye Institute, Hyderabad</i>	Rapid myopia progression in young adults and the associated factors
	15.20 - 15.30	FP19 Bhavya Gorimanipalli <i>Narayana Nethralaya, Bengaluru</i>	Role of artificial intelligence in understanding ocular surface pain
	15.30 - 15.40	FP20 Lavanya M.P. Easwaran <i>Anna University, Chennai</i>	Microfluidics of T regulatory cells and tubercular uveitis
	15.40 - 15.50	FP21 Bhagya Lakshmi Marella <i>LV Prasad Eye Institute, Hyderabad</i>	Optical phase shifts may contribute to the loss of visual acuity and stereoacuity in keratoconus
	15.50 - 16.00	FP22 Marmamula Srinivas <i>LV Prasad Eye Institute, Hyderabad</i>	Prevalence, pattern and compliance with spectacles use among the elderly in homes for the aged centres in South India – the Hyderabad Ocular Morbidity in Elderly Study
	16.00 - 16.10	FP23 Hanith Raj Deivarajan <i>Aravind Medical Research Foundation, Madurai</i>	Development and validation of a novel CRISPR/Cas12a-based nucleic acid detection platform for the diagnosis of ocular fungal infections
	16.10 - 16.25	Special Talk 6 Vijaya K. Gothwal <i>LV Prasad Eye Institute, Hyderabad</i>	Utilization and abandonment of low vision devices: An important element of low vision rehabilitation
Session XIV Valedictory Moderator: Sachin Shukla	16.25 - 16.35	D. Balasubramanian <i>LV Prasad Eye Institute, Hyderabad</i>	Wrap-up of ARVO-India 2022
	16.35 - 16.45	Prize distribution	
	16.45 - 16.55	K. Dharmalingam <i>Aravind Medical Research Foundation, Madurai</i>	Remarks from the incoming President
	16.55 - 17.00	Sayan Basu <i>LV Prasad Eye Institute, Hyderabad</i>	Vote of thanks
End of Symposium	17.00 Onwards	HIGH TEA	