

January 9-14, 2022

PROGRAM SCHEDULE

Day 1 - Sunday, January 9, 2022

SESSIONS	USA LOCAL TIME	INDIAN TIME	SPEAKERS AND TOPIC
Session I: Inauguration of Indo-US meeting Chairs: Inderjeet Kaur and Ashok Kumar			
Inauguration		18.00-18.05	Inderjeet Kaur (LV Prasad Eye Institute, Hyderabad, India) <i>Introducing the theme of the meeting</i>
	7.35-7.40 AM (Detroit)	18.05-18.10	Ashok Kumar (Wayne State University, Detroit, USA) <i>The relevance of the themes from an Indo-US perspective</i>
		18.10-18.15	Sayan Basu (LV Prasad Eye Institute, Hyderabad, India) <i>Welcome address</i>
From IUSSTF		18.15-18.25	Nandini Kannan (IUSSTF, New Delhi, India) <i>A brief note from the IUSSTF</i>
Keynote-I		18.25-18.55	Shubha Tole (Tata Institute of Fundamental Research, Mumbai, India) <i>How to make a hippocampus</i>
Inaugural Lecture	8.25-8.55 AM (Pittsburgh)	18.55-19.25	Debasish Sinha (University of Pittsburgh Medical Centre, Pittsburgh, USA) <i>Rat spontaneous mutations affecting glial cells of the optic nerve</i>
Meet and Greet		19.25-19.30	Introduction of the participants

Day 2 - Monday, January 10, 2022

SESSIONS	USA LOCAL TIME	INDIAN TIME	SPEAKERS AND TOPIC
Session II: Theme I: Neuron-glia crosstalk in Ocular development and diseases Chairs: Subhabrata Chakrabarti and Bikash Pattnaik			
Theme Talk-I		18.00-18.20	Moulinath Acharya (National Institute of Biomedical Genomics, Kalyani, India) <i>Investigating the role of WT1 transcription factor in the pathogenesis of developmental glaucoma spectrum disorders</i>
Theme Talk-II	7.50-8.10 AM (Massachusetts)	18.20-18.40	Laura Moreno-Leon (Iveric Bio, Massachusetts, USA) <i>Improved photoreceptor survival in degenerating retinas treated by gene therapy</i>
Theme Talk-III	7.10-7.30 AM (Wisconsin)	18.40-19.00	Bikash Pattnaik (University of Wisconsin, Madison, USA) <i>Bringing retinal pigment epithelium (RPE) into the mix of neuron glia interactions</i>
Q&A		19.00-19.10	Question and Answer Session
Keynote-II	8.40-9.10 AM (Florida)	19.10-19.40	Sanjoy K Bhattacharya (University of Miami, Florida, USA) <i>Axon Regeneration: Integrating high throughput and computational approaches</i>
Theme Talk-IV	9.10-9.30 AM (Philadelphia)	19.40-20.00	Kenneth S Shindler (University of Pennsylvania Scheie Eye Institute, Philadelphia, USA) <i>Role of the Spike glycoprotein in mouse coronavirus induced optic neuritis</i>
Theme Talk-V		20.00-20.20	Lopamudra Giri (Indian Institute of Technology, Hyderabad, India) <i>Live cell calcium imaging and analysis as a robust method to study neuron-glia system under stressed condition</i>
Focus Group Discussion		20.20-21.00	Focus group I: Discussion on possible research collaborations

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Day 3 - Tuesday, January 11, 2022

SESSIONS	USA LOCAL TIME	INDIAN TIME	SPEAKERS AND TOPIC
Session III: Theme 2: Glial interplay in infections and inflammation Chairs: Ashok Kumar and Joveeta Joseph			
Theme Talk-VI		18.00-18.20	Jayasri D Sarma (Indian Institute of Science Education and Research, Kolkata, India) <i>The interplay between Astrocytic Gap junction protein Connexin 43 and inflammatory mediators in Murine β-Coronavirus -induced neuroimmune modulation</i>
Theme Talk-VII		18.20-18.40	Soumyava Basu (LV Prasad Eye Institute, Hyderabad, India) <i>Role of circulating monocytes in a Zebrafish model of ocular TB</i>
Theme Talk-VIII		18.40-19.00	Nivedita Chatterji (Vision Research Foundation, Chennai, India) <i>Elevated glucose transporter-1 expression in retinal Muller glia is a potential driver of accelerated aging at the retina</i>
Q&A		19.00-19.10	Question and Answer Session
Keynote-III	8.40-9.10 AM (New York)	19.10-19.40	Shane Liddelow (NYU School of Medicine, New York, USA) <i>What do reactive astrocytes (really) do?</i>
Theme Talk-IX	8.10-8.30 AM (Chicago)	19.40-20.00	Deepak Shukla (University of Illinois, Chicago, USA) <i>Optineurin, the product of a gene implicated in glaucoma, is a restriction factor for herpes simplex virus infection of the eye and the neurons</i>
Focus group Discussion		20.00-21.00	Focus group 2: Discussion on possible research collaborations

Day 4 - Wednesday, January 12, 2022

SESSIONS	USA LOCAL TIME	INDIAN TIME	SPEAKERS AND TOPIC
Session III (Continued): Theme 3: Role of glia in the pathogenesis of retinal degenerative diseases and regeneration Chairs: Hemant Khanna and Ghanshyam Swarup			
Theme Talk-X		18.00-18.20	Rajesh Ramachandran (Indian Institute of Science Education and Research, Mohali, India) <i>Pten is essential for various gene regulatory network during müller glia-mediated zebrafish retina regeneration</i>
Theme Talk-XI		18.20-18.40	Ghanshyam Swarup (Centre for Cellular & Molecular Biology, Hyderabad, India) <i>Glaucoma-associated M98K polymorphism of OPTN sensitizes retinal cells to ER stress and TNF alpha</i>
Theme Talk-XII		18.40-19.00	Satyavrata Samavedi (Indian Institute of Technology, Hyderabad, India) <i>Development of polymeric scaffolds for controlling dysfunctional microglial responses: towards therapeutic intervention in degenerative diseases</i>
Q&A		19.00-19.10	Question and Answer Session
Keynote-IV	8.40-9.10 AM (Durham)	19.10-19.40	Daniel Saban (Duke University, Durham, USA) <i>The role of microglia in outer retinal degenerative diseases</i>
Theme Talk-XIII	9.10-9.40 AM (Columbus)	19.40-20.00	Nagaraj Kerur (The Ohio State University, Columbus, USA) <i>Oxidative DNA Damage and Innate Immunity: Implications for retinal degeneration</i>
Focus Group Discussion		20.00-21.00	Focus group 3: Discussion on possible research collaborations

January 9-14, 2022

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Day 5 - Thursday, January 13, 2022

SESSIONS	USA LOCAL TIME	INDIAN TIME	SPEAKERS AND TOPIC
Session IV: Theme 4: Emerging technologies and model systems for studying neuron-glia crosstalk Chairs: Thirumurthy Velpandian and Inderjeet Kaur			
Theme Talk-XIV		18.00-18.20	S Senthilkumari (Aravind Medical Research Foundation, Madurai, India) <i>Human organotypic retinal cultures (HORCs) as an ex vivo model system to study neurodegeneration in glaucoma</i>
Theme Talk-XV		18.20-18.40	Thirumurthy Velpandian (AIIMS, New Delhi, India) <i>Functional Assessment of Neuro-glia interaction for Pharmacological Interventions</i>
Theme Talk-XVI	8.10-8.30 AM (Philadelphia)	18.40-19.00	Venkata R M Chavali (University of Pennsylvania, Philadelphia, USA) <i>Pluripotent Stem Cell Derived Retinal Ganglion Cells as models to study Neurodegeneration.</i>
Q&A		19.00-19.10	Question and Answer Session
Keynote-V	8.40-9.10 AM (Maryland)	19.10-19.40	Kapil Bharti (National Eye Institute, Bethesda, Maryland, USA) <i>Emerging technologies and model systems for studying neuron-glia crosstalk</i>
Keynote-VI	9.10-9.40 AM (Miami)	19.40-20.10	Laura Bianchi (University of Miami, Miami, USA) <i>Using C. Elegans as a model to identify novel mechanisms of glia-neuron crosstalk</i>
Theme Talk-XVII	9.40-10.00 AM (Indianapolis)	20.10-20.30	Tasneem P Sharma (Indiana University School of Medicine, Indianapolis, USA) <i>Retinal neurodegeneration: A novel human ocular model system</i>
Focus Group Discussion		20.30-21.00	Focus group 4: Discussion on possible research collaborations

Day 6 - Friday, January 14, 2022

SESSIONS	USA LOCAL TIME	INDIAN TIME	SPEAKERS AND TOPIC
Session V: Young Scientist Presentations Chairs: Hemant Khanna and Subhabrata Chakrabarti			
Young Scientist Presentations		18.00-18.10	Young Scientist Presentation-I Susmita Das (Wayne State University School of Medicine, Detroit, USA) <i>Muller glial innate immune response and therapeutic efficacy of non-antibiotic drugs in the treatment of staphylococcal endophthalmitis</i>
		18.10-18.20	Young Scientist Presentation-II Vaibhav Dhyani (Indian Institute of Technology, Hyderabad, India) <i>A novel setup for in situ dynamic 3D-imaging of microglia cells under hypoxia using laser scanning confocal microscopy: Effect of oxygen deprivation on mitochondrial calcium and ROS generation</i>
		18.20-18.30	Young Scientist Presentation-III Mahua Maulik (Indian Institute of Science Education and Research, Kolkata, India) <i>Amyloid-β regulates cellular trafficking of the gap junction protein connexin 43 in astrocytes</i>
		18.30-18.40	Young Scientist Presentation-IV Gowtham L (AIIMS, New Delhi, India) <i>Hearing neuro-glia crosstalk with omics approach</i>
		18.40-18.50	Young Scientist Presentation-V Sushma Vishwakarma (L V Prasad Eye Institute, Hyderabad, India) <i>Primary mixed retinal cells generated from human cadaveric retina: as a model system for studying the pathological mechanisms in retinal neurodegeneration</i>
		18.50-19.00	Young Scientist Presentation-VI Atul Garkal (Nirma university, Ahmedabad, India) <i>Long-acting injectable implant of anti-VEGF antibody fragment in treatment of age-related macular degeneration</i>
		19.00-19.10	Young Scientist Presentation-VII Mansi Chaudhary (Indian Institute of Science Education and Research, Mohali, India) <i>Elucidating the role of YY1 during zebrafish retina regeneration</i>
Session VI: Focus Group Presentations Chairs: Inderjeet Kaur and Ashok Kumar			
Focus Group Presentations		19.10-20.10	Focus Group Presentation 1: Ocular development and regeneration
			Focus Group Presentation 2: Infections and inflammation
			Focus Group Presentation 3: Neurodegeneration and diseases
			Focus Group Presentation 4: Novel model system for studying neurodegeneration
Final words		20.10-20.20	D Balasubramanian (L V Prasad Eye Institute, Hyderabad, India) <i>Overall assessment of the meeting</i>
Valedictory		20.20-20.30	Vote of Thanks