



11th Optic Nerve Meeting 12-14 December 2023 Obergurgl, Austria

20 minute slot: 12 minute talk and 8 minute discussion 10 minute slot: 6 minute talk and 4 minute discussion

Tuesday 12 th	December				
3:30 - 8:50	Jonathan Keith & Franz	Welcome and Introduction			
	Session 1: Axon Deg	generation			
	Chairs: Keith Martin	Franz Grus			
8:50 - 9:10	Nick Marsh Armstrong	Optineurin mutations effect on transcellular degradation of axonal mitochondria			
9:10 - 9:30	Lukas Neukomm	Wallerian degeneration in Drosophila			
9:30 - 9:50	Lies De Groef	Preventing optic nerve degeneration in Wolfram syndrome: proof-of-concept study of base editing in mouse and iPSC models			
9:50 - 10:00	Caroline Manicam	Cell Signalling and (patho)physiological implications of ocular neurovascular adaptive mechanisms			
	Morning Tea				
	Session 2: Glia				
	Chairs: Elena Veccir	no, Andras Lakatos			
10:30 - 10:50	Gloria Cimaglia	Microglia inhibition in glaucoma – be careful what you wish for			
10:50 - 11:10	Andras Lakatos	Loss of astrocyte function in neurodegeneration – novel aspects emerging from 2D/3D human models			
11:10 - 11:30	Tatjana Jakobs	Astrocyte-derived factors for neuroprotection in age and glaucoma			
11:30 - 11:50	Daniel Sun	Optic nerve astrocytes exhibit a region-specific and temporally distinct response to ocular hypertension			
	Xandra Pereiro	Müller glia as neuroprotector in the retina			
	Lunch Break				
	Session 3: Physiology				
47:00 47.5	Chairs: Tom Reh, Sa				
17:30 - 17:50		Impact of acute and prolonged IOP elevation in the living human eye			
	Crawford Downs	Intraocular and cerebrospinal pressure dynamics: Implications for ocular health and disease			
	Leo Schmetterer	Structure-function relationships			
18:30 - 18:50	Luis Alarcon-Martinez	Interpericyte tunneling nanotubes as regulators of the blood flow distribution in the retina and optic nerve head			
18:50 - 19:00	Steffi Jonk	Metabolic analysis of mouse sarcopenic skeletal muscle identifies new strategies to increase lifespan in C. elegans			
Wednesday 1	3 th December				
	Session 4: Repair & Replacement				
	Chairs: Jonathan Cr	owston, Claire Mitchell			
8:30 - 8:50	Ben Sivyer	Towards RGC replacement for treating glaucoma			
8:50 - 9:10	Richard Eva	ER and Golgi as targets for repair and protection			
9:10 - 9:30	Claire Mitchell	Piezo channels, pressure and inflammation in RGCs and glia			
9:30 - 9:40	James Tribble	B-vitamin treatment provides neuroprotection in glaucoma by mitigating homocysteine and one-carbon metabolism disruption			
9:40 - 9:50	Christian van Oterendor	rp Mechanosensitivity of retinal ganglion cells			
	Group Photo + Morning Tea				
	Session 5: Regeneration				
		Armstrong, Michael Kapiloff			
10:30 - 10:50		Reprogramming Muller glia to regenerate ganglion cells: improving differentiation and integration			
10:50 - 11:10	,	Transcriptional control of contralateral retinal ganglion cell projections			
11:10 - 11:30	Britta Eickholt	Coordinating Axon Growth with Axon Branching			
11:30 - 11:50	Steven Bergmans	Atypical response to optic nerve injury in a unique fast ageing animal model			
11:50 - 12:10	Gerhard Garhofer	Pearls for early phase neuroprotection studies			
	Lunch Break				
	Session 6: Ageing and Degeneration				
		ruba, Michel Cayouette			
	Oliver Gramlich	Antibody-mediated optic neuropathies			
17:50 - 18:10		Assessing the risk of vision loss in LHON mutation carriers for enrollment in prevention trials			
18:10 - 18:30		NMN in axon degeneration and ageing			
	Andrew White	Angiotensin receptor blockers confer neuroprotection in a rodent optic nerve crush model			
18:40 - 18:50	Melissa Jöe	Development of neuroprotective small molecular drugs targeting NMNAT2			
Thursday 14 th	December				
	Session 7: Neuropro				
	Chairs: Britta Eickho	,			
8:30 - 8:50	Pete Williams	NMNAT2 is a druggable target to increase neuronal NAD			
8:50 - 9:10	Len Levin	Modeling Mechanisms for Neuroprotective Phosphine-Boranes			
9:10 - 9:30	Michael Kapiloff	CaMKII – RGC neuroprotection and axon regeneration			
9:30 - 9:50	Rossella Russo	Modulation of autophagy: a potential strategy for RGC neuroprotection in glaucoma			
9:50 - 10:00	Myungjin Kim	Dendritic pruning versus soma loss in a mouse glaucoma model			
	Morning Tea				
	Session 8: Super Models & Crowded Spaces				
	Chairs: Andrea Lore				
10:30 - 10:50	Elena Vecino	The effect of the whale Müller glia on the RGC axonal regeneration			
10:50 - 11:10	Sara Thomasy	Update on a Nonhuman Primate Model of Autosomal Dominant Optic Atrophy			
11:10 - 11:30	Yang Hu	Glaucoma models and beyond			

Anne Rombaut Lunch Break

11:10 - 11:30 Yang Hu 11:30 - 11:50 Jesse Gale

11:50 - 12:00

Session 9:	Protecting the CNS
Chairs: Lec	Schmetterer, Len Levin

17:30 - 17:50	Volker Patzel	Design and delivery of functional RNA for treatment of optic neuropathies

Glaucoma models and beyond The most geological of optic neuropathies

Intravitreal injection of MPTP leads to retinal ganglion cell death in the absence of a Parkinson's disease-like phenotype

17:50 - 17:50 Volkel Falzer 17:50 - 18:10 Jeff Goldberg 18:10 - 18:30 Christian Behl 18:30 - 18:50 Dan Milea Update on clinical trials in glaucoma neuroprotection Rethinking Alzheimer's disease research Through the optic nerve into the brain using Al