



## 13<sup>th</sup> Optic Nerve Meeting Obergurgl, Austria, 9-11<sup>th</sup> December 2025

20 minute slot = 15 minute talk and 5 minute discussion

		20 minute slot = 15 minute talk and 5 minute discussion  10 minute slot = 6 minute talk and 4 minute discussion		
		7 minute slot = 4 minute talk and 3 minute discussion		
Tuesday 9 <sup>th</sup> De				
	Session 1: Glial Influence i Chairs: Adriana Di Polo, Ch			
8:30 - 8:40	Keith, Jonathan & Franz	Welcome and Introduction		
8:40 - 9:00	Qi Cui	Fate mapping determines the roles of monocytes and microglia in glaucoma		
9:00 - 9:20	Deborah Villafranca	cAMP Signaling and spatially resolved astrocyte diversity in glaucoma		
9:20 - 9:40	James Tribble	Inflammation-driven metabolic dysfunction		
9:40 - 9:50	Xandra Pereiro	Müller glia-RGC communication via extracellular vesicles		
9:50 - 10:00	On Athanasios Alexandris Axonal degeneration and recovery after diffuse traumatic optic nerve injury: evidence for homotypic collateral sprouting and sex-dependent place.			
	Morning Tea			
	Session 2: Mitochondrial Dysfunction and Metabolism			
40.00 40.50	Chairs: Elena Vecino, Franz Grus			
10:30 - 10:50 10:50 - 11:10	Bledi Petriti	Reversing mitochondrial dysfunction in optineurin E50K glaucoma Axon transport of mitochondria and mRNAs		
11:10 - 11:30		Mitochondrial importance in RGC injury and repair		
11:30 - 11:50		Mitochondria-derived vesicles in ageing and neurodegeneration		
11:50 - 12:00	12:00 Yasmin Alameldin Mitochondrial DNA at the Interface between mitochondrial dysfunction and neuroinflammation in glaucoma			
	Lunch Break			
Session 3: Neurodegeneration Chairs: Yang Hu, Giovanna Malucci				
17:30 - 17:50	Bryan Jones	Retina: A model for neurodegeneration		
17:50 - 18:10	Giovanna Malucci	Neurodegeneration and protein stress		
18:10 - 18:30	Christian Behl	The many faces of autophagy in cellular resilience		
18:30 - 18:50 18:50 - 19:00	Len Levin Seungsoo Rho	Axon-to-axon signaling: A paradigm for progression in optic neuropathy Nicotinamide trial in NTG patients		
		The data made and minimal patients		
Wednesday 10	December Session 4: Regeneration as	nd Repair Pathways		
	Chairs: Richard Eva, Luana			
8:30 - 8:50	Richard Eva	Optimising retinal neuroprotection and optic nerve regeneration by targeting axonal organelles		
8:50 - 9:10	Adriana Di Polo	Neuronal revival: The insulin pathway to dendritic and synaptic regeneration after axonal injury		
9:10 - 9:30	Robin Franklin	TBC		
9:30 - 9:50 9:50 - 10:00	Yang Hu Carola Rutigliani	Recent progress on optic nerve protection and regeneration  Netrin-1 as a dual guidance and regenerative cue following sheath-preserving optic nerve transection		
3,30 10,00				
	Group Photo + Morning Tea			
	Session 5: Gene Therapy and Translational Platforms			
10:30 - 10:50	Chairs: Alice Pébay, Keith I Volker Patzel	Non-viral vectors for mitochondrial gene therapy		
10:50 - 11:10	Lalice Pébay Can we use iPSCs to characterise heterogeneity in AMD? The case of reticular pseudodrusen			
11:10 - 11:30	Pete Williams	Gene therapy targeting neuroprotection and neuroregeneration in glaucoma		
11:30 - 11:50	Stavros Vagionitis	Neuronal activity bidirectionally regulates myelin plasticity		
11:50 - 12:00	200 Steven Bergmans A proof-of-concept study for single-nucleotide base editing to prevent vision loss in a Wolfram Syndrome mouse model			
	Lunch Break			
	Session 6: Vision Circuits and Synaptic Plasticity Chairs: Pete Williams, Deborah Villafranca			
17:30 - 17:50	Ben Sivyer	Melanopsin in high-acuity RGCs		
17:50 - 18:10	Tas Khatib	CNTF-mediated rescue of circuit dysfunction		
18:10 - 18:30	Christian van Oterendorp	Mechanosensitive responses of cultured RGCs		
18:30 - 18:50 18:50 - 19:00	Luca Masin Greg Duncan	Successful injury-induced axonal regeneration requires extensive dendritic remodelling Remyelination protects retinal ganglion cells from dual leucine zipper kinase-mediated apoptosis		
Thursday 11 <sup>th</sup>	Docombor			
Thursday 11 <sup>th</sup>	Session 7: Rapid-Fire			
	Chairs: Michel Cayouette,			
8:30 - 8:37	Lidia Sánchez-Puebla	The retina as a mirror of Alzheimer's Disease: Early structural and vascular alterations in the APPNL-F/NL-F mouse model		
8:37 - 8:44	Alan Nicol	Pyrroloquinoline quinone is a potent metabo- and gero- protective agent in C. elegans		
8:44 - 8:51 8:51 - 8:58	Marcelino Aviles-Trigueros Ngan Pan Bennett Au	Unveiling hidden complexity: Insights into an uncharacterized subtype of retinal ganglion cell  Neuropal-intrinsic mechanisms for effective pener repair: therapeutic implications for algueomy		
8:51 - 8:58 8:58 - 9:05	Andrew White	Neuronal-intrinsic mechanisms for effective nerve repair: therapeutic implications for glaucoma Role of Lactoferrin on RGC survival in a retinal explant model		
9:05 - 9:12	Xiaosha Wang	Crybb3 promotes retinal ganglion cell axon regeneration via mTOR pathway activation		
9:12 - 9:19	Qiong Ding	Evaluating AMPK activation as a strategy to enhance retinal ganglion cell survival and function in glaucoma		
9:19 - 9:26	Jesse Gardner-Russell	Selective axonal injury depletes interpericyte tunnelling nanotubes		
9:26 - 9:33	Marta Molinari	$Modulation\ of\ miR-181a/b\ prevents\ glaucomatous\ optic\ neuropathy\ by\ improving\ mitochondrial\ dynamics\ and\ suppressing\ inflammation$		
9:33 - 9:40 9:40 - 9:47	Markus Kuehn Valery I. Shestopalov	Altered distribution of T Cells in peripheral blood of patients with POAG Inflammasome blockade strategies in optic neuropathies		
	Morning Tea			
	Session 8: Neuroprotection			
	Chairs: Jeff Goldberg, Katharina Bell			
10:30 - 10:50				
10:50 - 11:10 11:10 - 11:30				
11:30 - 11:50	TBA	and the getter mention of other control of the control of t		
11:50 - 12:00	Eleonora Daghini	Targeting taurine metabolism for neuroprotection in a rat model of ocular hypertensive glaucoma		

## Lunch Break

Session 9: Transplantation, Stem cells and Organoid Models				
Chairs: Tas Khatih Andrea Loreto				

17:30 - 17:50	Tim Kennedy	Making connections: guiding synaptic plasticity in the CNS		

17:50 - 18:10 Michel Cayouette Winbernedy Lead Tou lowering therapy Waking connections: guilding synaptic plasticity in the CNS Michel Cayouette Winbernedized Tou lowering therapy Lead Tou lowering th