Forschungsinstitut für Augenheilkunde
Universitätsklinikum Tübingen

Institute for Ophthalmic Research Tübingen at ARVO 2024

Name and Last Name	*Groupleader of your Lab*	Title of your Presentation	COMMENTS
Jonas Müller	*Siegfried Wahl*	**Comparison between the calculated and the measured neural transfer function**	
Merve Sen	*Marius Ueffing*	**ARMS2 A69S is associated with an increased level of retinal degeneration in a co-culture model for AMD**	
Francois Paquet-Durand	*Francois Paquet-Durand*	**Uncoupling glycolysis and oxidative phosphorylation allows for efficient and flexible energy production in rod and cone photoreceptors**	
Maximilian Rutz	*Torsten Straßer*	**Assessment of color vision deficiency using augmented reality retinal scan glasses**	
Alexander Günter	*Mathias Seeliger*	**The Mongolian gerbil as a model to study cone system physiology: an update**	
Blanca Arango-Gonzalez	*Marius Ueffing*	**Inhibition of valosin-containing protein (VCP) prevents retinal degeneration in P23H transgenic rats, amodel for autosomal dominant RP.**	
Marita Feldkaemper	*Marita Feldkaemper/Frank Schaeffel*	**Predictive power of choroidal thickness changes during luminance flicker**	I am the last author, Gustav Christensen is presenting
Hurst, Jose	*Sven Schnichels*	**Photobiomodulation as a potential neuroprotective therapy for oxidative stress in the Retina**	
Schaeffel, Frank	*Schaeffel, Frank*	**(1) Moderator of Session "Myopia: structural changes from cornea to sclera", (2) speaker Minisymposium "Illuminating myopia", title: "How focus in different spectral ranges controls emmetropization", (3) Poster "Effects of short tem exposure to red or infrared light on axial length" (presenting author)**	I am on other ARVO contributions as well.
Christensen, Gustav	*Marita Feldkaemper*	**Predictive power of choroidal thickness changes during luminance flicker**	
Rajat Agarwala	*Siegfried Wahl*	**Evaluation of a fixation-based tuning mechanism for large aperture tunable lenses in a presbyopia correction prototype**	Session Title: Presbyopia, accommodation and intraocular lenses Session Date/Times: May 9, 2024 from 11:45 AM to 1:30 PM

		Presentation Number - Posterboard Number: 6312 - B0574
Zhijian Zhao	*Christina Schwarz*	**Imaging Platform for Autofluorescence in Retina Tissue**
Sven Schnichels	*Sven Schnichels*	**Supercharged unfolded proteins (SUPs) as potential topical drug delivery systems**
Bowen Cao	*Marius Ueffing*	**Pharmacological inhibition or genetic inactivation of ERAD effector VCP suppresses RhoΔI255-associated retinal degeneration**
Zhao Shiying	*Simon Clark / Sylvie Julien-Schraermeyer*	**Reduction of pathological retinal neovascularization,vessel obliteration and artery tortuosity by PEDF protein in an oxygen-induced ischemic retinopathy rat model.**
Linus Emmerich	*Christina Schwarz*	**Two-Photon Stimulation Efficiency with ns-Pulsed infrared Lasers**
Torsten Straßer	*Torsten Straßer*	**Comparison of the effects of point light vs. surface glare on the Visual Acuity Space using the VA-CAL test**
Bishesh Sigdel	*Torsten Straßer*	**Experimental setup to assess accommodation in non-human primates using photorefraction for evaluation of a novel wireless intraocular ciliary muscle sensor**
Sven Schumayer	*Torsten Straßer*	**Non-invasive recording of ciliary muscle biopotentials during accommodation using novel scleral contact lens electrode**
Maximilian Rutz	*Torsten Strasser*	**Assessment of color vision deficiency using augmented reality retinalscan glasses**
Sophie Stürmer	*Haq / Zrenner*	**Artificial vision: testing of glutamate releasing nano-pore membranes and assessment of Müller cell glutamate uptake**
Arne Ohlendorf	*Siegfried Wahl*	**Myopia control efficacy through Emmetropic Progression Ratio:1-year of spectacle wear with cylindricalannular refractive elements (CARE)**
Katharina Rifai	*Siegfried Wahl*	**Subjective acceptance of spectacle lenses with cylindrical annular refractive elements (CARE) in Chinese children with myopia**
Lucia Peiroten	*Haq / Zrenner*	**Biomimetic Approach to Electrically Elicit Enhanced Artificial Vision by Using Electrode Array in Flower Layout and Saccadic-Like Electrode Activation**
Lan Wang	*Francois.Paquet-Durand*	**PPARs promote photoreceptor survival in the rd1 mouse model for retinitis pigmentosa**
Sandra Wagner	*Torsten Strasser*	**Emmetropes, but not myopes exhibit reduced retinal ON-responses in ERG after prolonged reading of standard contrast text**

Jiaqi Tang (Jade)	*Simon J Clark*	**Cathepsin-G accumulation in Bruch's membrane may alter complement activation through the degradation of FHRs and C3b**	
Yu Zhu	*François Paquet-Durand*	**PKG inhibition reduces rod and cone photoreceptor cell death in the new Rhol255del mouse model for autosomal dominant retinitis pigmentosa**	
Julio Cesar da Costa Moura	*Christina Schwarz*	**Assessing the retinal pigment epithelium with multimodal autofluorescence imaging**	
Xinyi He	*Christina Schwarz*	**Establishing Combined Functional Assessment of Mouse Photoreceptors and Ganglion Cells in Acute Retinal Explants**	ARVO Foundation Travel Grant 2024
Angela Armento	*Marius Ueffing*	**Complement Factor H (CFH) Y402H polymorphism alters the endoplasmic reticulum (ER) stress response in iPSC-RPE cells**	