

NEW HORIZONS IN OPHTHALMOLOGY

Ophthalmic Research and Vision Science are continuously advancing. We approach a new era, where we are able to analyze, diagnose, treat and eventually prevent eye diseases in a precise and individualized way. This is especially true for retinal diseases, where molecular therapy is now moving into clinical routine. In tune with the focus of activities in Tübingen, the 2nd New Horizons Meeting will concentrate on progress in understanding, diagnosing and treating diseases affecting the retina. The meeting will provide an interphase and discussion between internationally leading experts, basic and clinical scientists from our center, patient group representatives as well as colleagues inside and outside of Germany.

In 2022, we celebrate 12 years of joint activities in ophthalmic research and a continuous growth of the Center for Ophthalmology in Tübingen during these years.

We are delighted to invite and welcome you to the 2nd New Horizons in Ophthalmology Meeting in Tübingen.

Prof. Bartz-Schmidt for the team of the eve hospital

Prof. Ueffing for the team of the research institute

CME points from the LÄK BW

Participation for physicians in Germany: 12 CME points will be applied for at the LÄK BW.

Online participation

Free of charge

Registration

- Follow this link for registration: https://horizons2022.de/register
- When registering, please provide your full name, your e-mail address and, as physician in Germany, also your EFN. This is required for the correct reporting of participants to the LÄK BW and to the DFG.
- After registration you will receive a confirmation e-mail with the access data and further information about the participation in the webinar.

Data Protection

As audio, video and image recordings are personal data according to the State Data Protection Act of Baden-Württemberg, the corresponding legal regulations and requirements apply.

For further information on data protection, please refer to the UKT data protection declaration (www.medizin. uni-tuebingen.de/de/kontakt/datenschutz).

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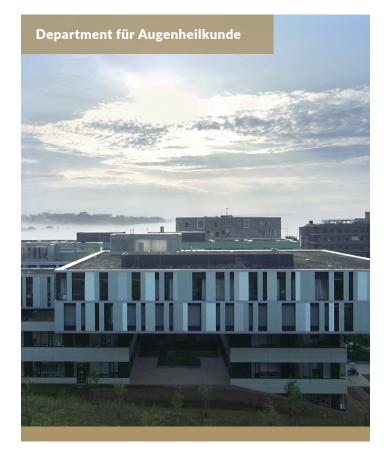
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NEW HORIZONS IN OPHTHALMOLOGY

From Molecular Mechanisms to Therapy

June 27th-29th, 2022 University of Tübingen, ETN-Grand Lecture Hall Elfriede-Aulhorn-Street 5-7 | DE-72076 Tübingen





Preliminary Program

MONDAY JUNE 27th, 2022

- 10:00 Welcome by the organisers | Marius Ueffing and Ulrich Bartz-Schmidt
- 10:10 Inspiration Motivation "Supervision"
 The role of patient organizations in terms of science in retinal research | Franz Badura

Diagnostics and Therapy of Ocular Tumors

CHAIRS: Michael Förster & Ulrich Bartz-Schmidt

- 10:20 Reduction of mortality in uveal melanoma. Dream or reality? | Nikolaos E. Bechrakis
- 10:40 Why is the treatment method not decisive for the metastasis of the malignant choroidal melanoma? | Heinrich Heimann
- 11:00 Uveal melanoma metastasis still a secret? Flashlight: Daniela Süsskind
- 11:15 COFFEE BREAK
- 11:45 Clinical challenges in vitreo-retinal lymphoma | Vinodh Kakkassery
- 12:15 Molecular genetics of vitreo-retinal lymphoma | Falko Fend
- 12:40 Advances in systemic treatment of vitreo-retinal lymphoma | Christian Junghanß
- 13:00 LUNCH BREAK

Diagnostics and Therapy of Retinal Disease

CHAIRS: Sabine Aisenbrey & Ulrich Bartz-Schmidt

- 14:15 Routine practice patterns / Benefit-risk analysis | Focke Ziemssen
- 14:35 Managing active macular disorders | Andreas Stahl
- 14:55 The German National Cohort (NAKO) importance for ophthalmology | Flashlight: Alexandra Schweig
- 15:10 Retinal functional diagnostics: how to measure therapy success? | Flashlight: Katarina Stingl
- 15:25 COFFEE BREAK
- 15:55 CRAO clinical management | Martin Spitzer
- 16:15 Limitations, bottlenecks, and new horizons in retina implant research | Peter Walter
- 16:30 Sorapazan: an EU clinical study on Stargardt's disease | Flashlight: Tobias Peters

from 18:00 RECEPTION @ Kerstan Atrium

TUESDAY JUNE 28th, 2022

Molecular Mechanisms & Therapy Development of AMD

CHAIRS: Frank Holz & Daniel Pauleikhoff

- 09:00 KEYNOTE LECTURE: Age-related Macular Degeneration genetics meets Genome Architecture: A merger in the retina | Anand Swaroop
- 09:30 Nature & nurture in AMD: where is the potential for the patient? | Caroline Klaver
- 09:50 Targeting AMD pathomechanisms for therapy development | Sascha Fauser
- 10:10 Classifying AMD | Monika Fleckenstein
- 10:30 Imaging endpoints in clinical trials in AMD | Steffen Schmitz-Valckenberg
- 10:50 COFFEE BREAK

Retinal Disease and Inflammation

CHAIRS: Marius Ueffing & Simon Clark

- 11:20 Intracellular signaling in response to complement stimulation | Olaf Strauss
- 11:40 Mineralocorticoid pathways in the retina | Francine Behar Cohen
- 12:00 Retinal inflammation and AMD | Florian Sennlaub
- 12:20 The non-canonical function of CFH in RPE cells and AMD | Flashlight Angela Armento
- 12:30 Removal of RPE lipofuscin as a possible therapy option for Stargardt's disease and AMD? | Flashlight: Sylvie Julien-Schraermeyer
- 12:40 Immunomodulatory targets for AMD | Flashlight: Anne Wolf
- 12:50 Molecular mechanisms of uveitis | Cornelia Deeg
- 13:10 LUNCH @ Kerstan Atrium

Molecular Diagnostics & Therapy Development

CHAIRS: Irene Maumenee & Bernd Wissinger

- 14:00 Diagnostic considerations for gene therapy A critical discourse | Flashlight: Susanne Kohl
- 14:15 Gene-therapy, the next steps ahead? | Dominik Fischer
- 14:35 Non-viral transposon-based gene therapy the efficient alternative approach escaping the immune system |
 Gabrielle Thumann
- 14:55 Precision Genome Surgery for Imprecision Medicine | Steven Tsang
- 15:20 COFFEE BREAK

Molecular Therapy Development I

CHAIRS: Hendrik Scholl & François Paquet-Durand

- 16:00 KEYNOTE LECTURE: A critical view on gene therapy development | Alberto Auriccio
- 16:30 Restoring vision with gene and cell therapy | Deniz Dalkara
- 16:50 Gene therapy for hearing loss | Ellen Reisinger
- 17:10 Targeting proteostasis as mutation independent pharmacological therapy | Flashlight: Blanca Arango-Gonzalez
- 17:20 Retinitis pigmentosa: using PKG inhibitors to prevent photoreceptor cell death | Flashlight: François Paquet-Durand

Molecular Therapy Development II

CHAIRS: Eberhart Zrenner & Mathias Seeliger

- 17:30 Visual restoration | Serge Picaud
- 17:50 BREAK
- 18:00 EVENING LECTURE: Optogenetics | Botond Roska
- 19:00 SPEAKERS DINNER @ KELTER

WEDNESDAY JUNE 29th, 2022

Organoids and Cell-based Therapy Development

CHAIRS: Thomas Euler & Frank Schaeffel

- 09:00 Regenerating human photoreceptors | Volker Busskamp
- 09:20 A glance at the eye in the dish | Stefan Liebau
- 09:40 Combining genome editing and retinal organoids for IRDs | Vasiliki Kalatzis
- 10:00 Towards modelling and rescue of inherited retinal dystrophies using prime editing and patient-derived iPSCs | Peter Quinn
- 10:20 Functional analysis of the retina | Flashlight: Wadood Haq
- 10:35 Advancing adaptive optics | Flashlight: Christina Schwarz
- 10:50 COFFEE BREAK

Pathomechanisms of Retinal Disease

CHAIRS: NN & Sven Schnichels

- 11:20 Oxidate stress in AMD pathogenesis | Kai Kaarniranta
- 11:40 Proteostasis in the neuroretina | Mike Cheetham
- 12:00 A systems view on ciliopathies | Ronald Roepman

Closing Lecture

CHAIRS: Nicole Eter & Marius Ueffing

- 12:20 Al for the Eye | Philipp Berens
- 12:50 SUMMARY & FAREWELL | Ulrich Bartz-Schmidt & Marius Ueffing
- 13:15 LIGHT LUNCH @ Kerstan Atrium