

Centre for Ophthalmology



New Horizons in Ophthalmology

From molecular Mechanisms to Therapy

Date June 15th – 17th, 2020
Organisers: Marius Ueffing & Ulrich Bartz-Schmidt
Venue: University of Tübingen | Centre for Ophthalmology
 ETN-Grand Lecture Hall
 Elfriede-Aulhorn-Street 5/7, DE-72076 Tübingen



**Universitätsklinikum
Tübingen**

New Horizons in Visual Research 2020

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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.

2020 is a special year for us, as we celebrate 10 years of joint activities in ophthalmic research and a continuous growth of the Center for Ophthalmology in Tuebingen during these years.

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

Karl Ulrich Bartz-Schmidt and Marius Ueffing

Agenda

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Monday June 15th, 2020

13:00-13:20	Welcome by the organisers M. Ueffing and U. Bartz-Schmidt
13:20-13:50	Keynote Lecture How genetic variants contribute to AMD phenotypes Anand Swaroop
13:50-14:00	Participatory Medicine: The Patient View Franz Badura

New Developments in AMD

Chairs: Caroline Klaver & Sascha Fauser

14:00-14:25	Diagnostic Risks Pathomechanisms and Endpoints in AMD Caroline Klaver
14:25-14:50	Targeting AMD pathomechanisms for Therapy development Sascha Fauser
14:50-15:15	Serum biomarkers & organ-on-a-chip for AMD Anneke Den Hollander
15:15-16:00	Coffee Break

New Developments in retinal pathogenesis

Chairs: Anneke den Hollander & Simon Clark

16:00-16:25	The Role of Complement Factor H related proteins in AMD Simon Clark
16:25-16:50	Microglia and retinal Inflammation Thomas Langmann
16:50-17:00	Regulating Proteostasis in Photoreceptors Flashlight: Blanca Arango-Gonzalez
17:00-17:10	Sorapazan: An EU clinical study on Stargardt's Disease Flashlight: Tobias Peters
17:10-17:35	Oxidative stress in AMD pathogenesis Kai Kaarniranta
17:35-18:05	Restoring vision at the retinal and cortical levels Serge Picaud
18:05-18:30	Title: tbd Jose Sahel
from 18:30	Reception @ Kerstan Atrium

Tuesday June 16th, 2020

New Developments in Vision Research I

Chairs: Katrin Franke & Thomas Euler

09:00-09:25	Regenerating human photoreceptors Volker Busskamp
09:25-09:50	A systems view on ciliopathies Ronald Roepman
09:50-10:15	Ablation of Phosphoinositide 5'-Phosphatase INPP5E prevents Disc Morphogenesis Wolfgang Baehr
10:15-11:00	Coffee Break
11:00-11:25	Ionic Mechanisms in Intracellular Signaling in the RPE in response to Complement Stimulation Olaf Strauss
11:25-11:50	Genetic Syndromes with Retinal Involvement Irene Maumenee
11:50-12:15	Precision Genome Surgery for Imprecision Medicine Steven Tsang
12:15-14:00	Lunch @ Kerstan Atrium

New Developments in Vision Research II

Chairs: Frank Schaeffel & Bernd Wissinger

14:00-14:25	A horse of another colour: equine recurrent uveitis Cornelia Deeg
14:25-14:50	Proteostasis in the neuroretina Mike Cheetham
14:50-15:15	Pharmacotherapy for Stargardt disease Hendrik Scholl
15:15-16:00	Coffee Break
16:00-16:25	Restoring vision with gene and cell therapy Deniz Dalkara
16:25-16:35	What the eye tells the brain: Visual feature extraction in the retina Flashlight: Katrin Franke
16:35-16:45	Retina on a Chip Flashlight: Stefan Liebau
16:45-17:10	Two-Photon Ophthalmoscopy and its potential for clinical application Christina Schwarz
17:10-17:35	Drug and gene delivery, glucoses and mineralocorticoid pathways in the retina Francine Behar-Cohen
17:35-17:45	A patient's perspective on developing retinal therapies Christina Fasser
from 19:00	Dinner @ Museum

Wednesday June 17th, 2020

“New Developments in Diagnostic and Therapy”

Chairs: Sarah Coupland & U. Bartz-Schmidt

08:30-08:55	Molecular Basis of Lymphoma therapy Christian Junghanss
08:55-09:20	Molecular genetics of vitreo-retinal lymphoma Falko Fend
09:20-09:30	Pre-therapeutic differentiation of vitreo-retinal lymphoma Flashlight: Ulrich Bartz-Schmidt
09:30-09:40	Uveal melanoma metastasis - still a secret? Flashlight: Daniela Süsskind
09:40-10:05	Molecular genetics of uveal melanoma Sarah Coupland
10:05-10:30	Coffee Break
10:30-10:55	Why is the treatment method not decisive for the metastasis of the malignant choroidal melanoma? Heinrich Heimann
10:55-11:20	Reduction of mortality in uveal melanoma. Dream or reality? Nikos Bechrakis
11:20-11:45	Upcoming Challenges of Diabetic retinopathy Focke Ziemssen
11:45-11:55	German national cohort study (NAKO) - detection of retinal findings Flashlight: Alexandra Schweig
11:55-12:20	Which retinal dystrophies are suitable for gene therapy and why? Claudia Priglinger
12:20-13:20	Lunch @ Kerstan Atrium
13:20-13:45	Non-viral transposon-based gene therapy – the efficient alternative approach escaping the immune system Gabrielle Thumann
13:45-14:10	Genetherapy, the next steps ahead? Dominik Fischer
14:10-14:35	Scotopic and photopic chromatic kampimetry of the pupille? Katarina Stingl
14:35-15:00	Next steps in the evolution of artificial vision Peter Walter
15:00-15:15	Summary & Farewell by the organizers
from 15:15	“Swabian Maultaschen 2 Go”

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