

## ... performing in Excellence

### Research Topics

The Institute for Ophthalmic Research is working towards the establishment of a scientific basis for risk assessment, diagnostic screening, prevention and individualized therapy of neurosensory diseases of the eye.

The Institute for Ophthalmic Research focuses on the following diseases:

- Hereditary retinal and optic nerve diseases,
- Age-related macular degeneration,
- Diabetic retinopathies,
- Glaucoma,
- Myopia

#### Ongoing research:

- Pathomechanisms and risk factors for eye diseases
- Multimodal diagnostic tools for personalized medicine
- Novel therapies

There is an urgent need to develop diagnostic tools on the cellular and molecular level and novel therapeutic approaches for these diseases and to implement the full medical programme from bench to bedside.

The research groups work together in order to understand disease-causing mechanisms, investigate pathomechanisms and develop gene signatures as well as biomarker signatures and to find personalized therapeutic approaches; this last goal includes validation of therapies in animal models and translation into clinical practice.

## Contact

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### How to find us:



## Institute for Ophthalmic Research Tübingen, Germany



The Institute for Ophthalmic Research is headed by Prof. Marius Ueffing and cooperates closely with the University Eye Hospital (Prof. Karl Ulrich Bartz-Schmidt) under the common roof of the Centre for Ophthalmology.

The Institute, founded in 2007, aims at uncovering the causes for degenerative, inflammatory and vascular diseases of the eye and the visual pathways at molecular, cellular and systemic level.

The Institute houses several teams of scientists who work together to develop and evaluate concepts for therapy and treatment and optimise

clinical and research diagnostics.

Thus, the Institute provides an efficient infrastructure which supports research and education and mediates contacts to other research institutions and to industry.

The Institute enjoys not only a variety of national and international scientific activities, like intense partnerships and cooperations, but also offers courses and seminar opportunities to students and young researchers.

The list of publications and sponsors are the evidence for the success of its activities.

Translational research is performed in strong cooperation with the University Eye Hospital Tuebingen.

Building  
the bridge from  
bench to  
bedside



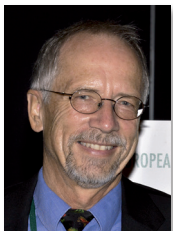
**Marius Ueffing**

- Professor, Dr. rer. nat.
- Director of the Institute for Ophthalmic Research
- Head of Molecular Biology of Retinal Degenerations



**Karl Ulrich Bartz-Schmidt**

- Professor, Dr. med.
- Director of the University Eye Hospital



**Frank Schaeffel**

- Professor, Dr. rer. nat.
- Deputy Director at the Institute for Ophthalmic Research
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**Eberhart Zrenner**

- Professor, Dr. med., Dr. h.c. mult.,
- Head of Pathophysiology of Vision
- Senior Professor of the Werner Reichardt Centre for Integrative Neuroscience
- Founding Director of the Institute for Ophthalmic Research