



Forscherguppe 1075

Vortragsankündigung

Membrane protein transport in photoreceptors

Prof. Dr. Wolfgang Baehr

University of Utah/USA

Am Dienstag, 31. Mai 2011 um 10.00 Uhr

in der Anatomischen Sammlung des Vorklinikums, Universität

Regensburg Raum VKL. 5.0.05



Prof. Dr. Wolfgang Baehr is the Director of the Michael M. Wynn Center of Inherited Retinal Diseases and Ralph Mary Tuck Professor of Retinal Genetics at the Moran Eye Center of the University of Utah. His research interest is to understand the requirements for photoreceptors to maintain a healthy state and normal function. His research directly leads to numerous breakthroughs in our knowledge of normal photoreceptor function and of mechanisms leading to retinal degeneration. In more than 145 publications in journals such as EMBO, PNAS or Nature Genetics he analyzed the role of opsins, phosphodiesterases (PDE), the visual cycle and guanylate cyclases (GCAPs), all key molecules of the photoreceptor signal transduction cascade. He generated one of the first mouse models for retinitis pigmentosa and identified numerous gene defects leading to impairment of vision in animal models and humans. In his recent work, he entered the field of trafficking of membrane proteins from inner segments to outer segments in rods and cones.