
Curriculum Vitae of Prof. Dr. med. Dr. h.c. Eberhart Zrenner



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Surname	First name	Date of birth	Nationality
Zrenner	Eberhart	18.10.1945	German

Present position and title: **Chair Professor of Ophthalmology**
Department: **Institute for Ophthalmic Research, Center for Ophthalmology**
University/Institution: **University of Tübingen, Centre for Ophthalmology**

Education

University of Erlangen and Munich		1967-72	Medicine and Electronic Engineering
Technical University of Munich	MD	1973	Medicine (Information transfer in the eye) (summa cum laude)
Max-Planck-Institute for Physiol. and Clin. Research	Post Doc	1973-74	Sensory physiology
National Inst. of Health, USA	Fogarty fellowship	1977-78	Neurophysiology
University of Giessen	Habilitation	1981	Cell physiology
University of Munich	Ophthalmological board exam	1985	Ophthalmology

Professional experience

1973	Internship in Surgery and Internal Medicine, Munich
1974-1976	Research fellow at the Max-Planck-Institute for Physiological and Clinical Research, Bad Nauheim, Dept. of Experimental Ophthalmology, and Eye Hospital of Frankfurt University
1977-1978	Fogarty International Fellow, National Eye Institute, NIH, Bethesda USA, Laboratory of Vision Research
1979-1984	Experimental Ophthalmology at the Max-Planck-Institute for Physiological and Clinical Research, Bad Nauheim and and University Eye Hospital Munich
1985-1989	Associate Professor and Head of a Research Unit of the Max-Planck-Society at the University Eye Hospital, Munich (Prof. Lund) ; Honorary Prof., Univ. of Giessen
1989	Full professor of Ophthalmology, University of Tuebingen, Germany
1989 to present	Chairman of the Department "Pathophysiology of Vision and Neuro-Ophthalmology" and Head of the Division of Experimental Ophthalmology at the University of Tuebingen, now Institute for Ophthalmic Research at the Centre for Ophthalmology
1991- 2007	Executive Director of the University Eye Hospital Tübingen
1992	Offer of Prof. at Aston-University, Birmingham, England (declined)
1993	Offer of Head of Dept. Ophthal., McGill Univ. Montreal Canada (declined)
1994 – 1995	Dean of the Medical Faculty of the University of Tuebingen
1995 to present	Coordination of the Consortium "Subretinal Implants"
1998 - 2000	Dean of the Medical Faculty of the University Tuebingen

2007 – 2011	Director of the Centre for Ophthalmology, together with Prof. K.U. Bartz-Schmidt
2007 – 2011	Director of the Institute for Ophthalmic Research, University of Tuebingen
2007 – 2011	Head of the strategy committee of the Medical Faculty, Tuebingen
since 2011	Head of the Board of the Center for Neurosensory Systems (ZfN), University of Tuebingen

Honors and Awards

1973	Dissertation award for an experimental study on the optic qualities of the eye
1979	Franceschetti-Liebrecht-Award of the German Ophthalmological Society
1995	Alcon Research Award (100.000\$)
1998	Election as Member of the "Heidelberger Akademie der Wissenschaften"
1999	Election as Member of the „Deutsche Akademie der Naturforscher
2000	von Graefe-Award of the German Ophthalmological Society
2006	"Bartimaeus Award" of the Detroit Institute of Ophthalmology awarded at the World Congress of Artificial Vision 2006
2007	Emiko Adachi-Award of the International Society for Clinical Electrophysiology of Vision (ISCEV)
2009	Pfizer-Award, Visiting Professorship, SUNY, New York
2009	Karl-Heinz Beckurts Award 2009
2009	Claere-Jung-Preis of the EURETINA
2010	Retina International: Special Recognition Award
2011	Edridge Green Award
2011	EURETINA Innovation Award
2011	Honorary doctorate, Naresuan University, Thailand

Scientific functions

1991- 2000	President of the International Society for Clinical Electrophysiology of Vision
1991- 1998	Speaker to the DFG core program "Hereditary Retinal Degeneration"
1993- 2007	Section Editor of „Vision Research“ and „Neuro-Ophthalmology“
1997- 2004	Speaker of a center core grant „SFB 430“ Editorial Board member for „Investigative Ophthalmology and Visual Science“
1999- 2007	Senator of the Max-Planck-Society, Germany
Since 1975	Advisor for the German Research Council in several projects (SFB 73, SFB 325, SFB 200, SFB 307, SFB 539, Forschergruppen)
Since 2002	Head of a Senate Commission „Medical Engineering“ of the Helmholtz-Gemeinschaft
2003- 2009	Member of the "Wissenschaftsrat"
Since 2006	Speaker of the DFG Clinical Research Group "Hereditary Retinal Degenerations"

Scientific interests

Physiology and pathophysiology of the visual system; ocular toxicology; neuro-ophthalmology, functional and neuropharmacological studies *in vivo*; single cell recording from the mammalian retina for studies on structure and function of the retina, neuroprosthetics, psychophysics, clinical electrophysiology, colour vision, hereditary retinal degeneration, non-invasive techniques of functional diagnostics in ophthalmology

410 original peer reviewed publications

5 most important publications

1. Zrenner E et al. Subretinal electronic chips allow blind patients to read letters and combine them to words. **Proc. R. Soc. B.** **278**, 1489-1497(2011). doi: 10.1098/rspb.2010.1747
2. Zrenner E: The role of electrophysiology and psychophysics in ocular toxicology. Clinical and Ocular Toxicology. Elsevier Inc. (2008)
3. Zrenner E: Will Retinal Implants Restore Vision? **Science** 295, 1022-1025 (2002)

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4. Seeliger M, Grimm C, Stählberg F, Friedburg F, Jaissle G, Zrenner E, Guo H, Remé CE, Humphries P, Hofmann F, Biel M, Fariss RN, Redmond TM, Wenzel A: New views on RPE65 deficiency: the rod system is the source of vision in a mouse model of Leber congenital amaurosis. **Nature Genetics** 29, 70-74 (2001)
 5. Kohl S, Marx T, Giddings I, Jägle H, Jacobson SG, Apfelstedt-Sylla E, Zrenner E, Sharpe LT, Wissinger B: Total colourblindness is caused by mutations in the gene encoding the α -subunit of the cone photoreceptor cGMP-gated cation channel. **Nature Genetics** 19, 257-259 (1998)