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



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Surname	First name	Date of birth	Nationality
<b>Zrenner</b>	<b>Eberhart</b>	<b>18.10.1945</b>	<b>German</b>

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

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### 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

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### 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

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### 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

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### 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"

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### 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

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### 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  $\alpha$ -subunit of the cone photoreceptor cGMP-gated cation channel. **Nature Genetics** 19, 257-259 (1998)