

Peter H. Seeburg

Peter.Seeburg@mpimf-heidelberg.mpg.de

EDUCATION AND TRAINING

1974-1977 7 University of Heidelberg, assistant lecturer
1975-1977 University of California, San Francisco, (UCSF)
 Department of Biochemistry and Biophysics; postdoctoral fellow
1977-1978 UCSF, adjunct assistant professor in medicine
1978-1985 Genentech Inc., South San Francisco, senior scientist
1985-1987 Genentech Inc., staff scientist
1987-1995 University of Heidelberg, full professor
1996- Max-Planck-Institute for Medical Research, Heidelberg, director

SELECTED PUBLICATIONS

Keinänen, K., Wisden, W., Sommer, B., Werner, P., Herb, A., Verdoorn, T.A., Sakmann, B. and Seeburg, P.H. (1990) A family of ionotropic AMPA selective glutamate receptors. *Science* 249: 556-560.
Sommer, B., Köhler, M., Sprengel, R. and Seeburg, P.H. (1991) RNA editing in brain controls a determinant of ion flow in glutamate-gated channels. *Cell* 67: 11-19.
Monyer, H., Sprengel, R., Schoepfer, R., Herb, A., Higuchi, M., Lomeli, H., Burnashev, N., Sakmann, B. and Seeburg, P.H. (1992) Heteromeric NMDA receptors: molecular and functional distinction of subtypes. *Science* 256: 1217-1221.
Higuchi, M., Maas, S., Single, F.N., Hartner, J., Rozov, A., Burnashev, N., Feldmeyer, D., Sprengel, R. and Seeburg, P.H. (2000) Point mutation in an AMPA receptor gene rescues lethality in mice deficient in the RNA-editing enzyme ADAR2. *Nature* 406: 78-81.
Krestel, H.E., Shimshek, D.R., Jensen, V., Nevian, T., Kim, J., Geng, Y., Bast, T., Depaulis, A., Schonig, K., Schwenk, F., Bujard, H., Hvalby, Ø., Sprengel, R. and Seeburg, P.H. (2004) A genetic switch for epilepsy in adult mice. *J. Neurosci.* 24: 10568-10578.

RESEARCH GRANTS

Title: EU-Synapse: Neuronal migration – new migratory targets in the postnatal brain for neuroblasts generated in the subventricular zone: molecular and functional characterization
Agency: European Commission
Period of support: 2005-2009
Title: The relevance of Ca²⁺-permeable AMPA channels to ALS therapy
Agency: Amyotrophic Lateral Sclerosis Association
Period of support: 2005-2007
Title: Genomic mechanisms of functional recovery in stroke
Agency: Bundesministerium für Bildung und Forschung (BMBF; Federal Ministry for Education and Research)
Period of support: 2004-2006
Title: Molecular and cellular bases of neural development
Agency: Deutsche Forschungsgemeinschaft (DFG; German Research Foundation)
Period of support: 2000-2008

AWARDS, HONORS AND SCIENTIFIC SERVICE

Von Humboldt Prize, 1992; NEN Dupont Prize, 1992; Ernst Schering Prize, 1992; Beckurts Prize, 1992; Feldberg Prize, 1993; Bristol-Myers Squibb Unrestricted Grant Award in Neuroscience, 1997-1999; ECNP-Lilly Award 1997.
Memberships: Society for Neuroscience; The Endocrine Society; New York Academy of Sciences; American Association for the Advancement of Science
Editorial Boards: *Current Opinion in Endocrinology & Diabetes*; *Current Opinion in Neurobiology*; *Journal of Neuroendocrinology*; *Journal of Neuroscience*; *Journal of Receptor Research*; *Life Sciences*; *Molecular Brain Research*; *Molecular and Cellular Neuroscience*; *Molecular Psychiatry*; *Molecular Re-*

production and Development; Neurobiology of Disease; Neuropharmacology; Receptors and Channels; Trends in Neurosciences.