Curriculum Vitae

Prof. Dr. Stefan Schuster

Born 14.11.1966 (Stuttgart, Germany)

University of Bayreuth, Germany
Chair of Animal Physiology

Scientific career

1986-1993	Studied Physics, Mathematics and Biology at the University of Tübingen (Germany) and Stony Brook (USA; MA,1991)
1993	Diplom "with distinction" (physics), University of Tübingen Topic: Electrical transport at grain boundaries of the high-temperature superconductor $YBa_2Cu_3O_{7-d}$ (Prof. Dr. Rudolph P. Hübener)
1996	PhD (Biology), University of Tübingen Thesis: Virtual reality in freely walking *Drosophila* (Prof. Dr. Karl-Georg Götz, Max-Planck Institute for Biological Cybernetics, Tübingen)
1997-2003	'Wissenschaftlicher Assistent', University of Freiburg, Dept. of Animal Physiology (Prof. Dr. Klaus Vogt),
2003	Habilitation and *Venia legendi* (Animal Physiology and Neurobiology)
2003-2007	'Oberassistent' at the Institute of Zoologie II, University of Erlangen-Nürnberg (Prof. Dr. Otto von Helversen)
2007-2009	Heisenberg-Scholarship of the DFG
Since 2009	Chair of Animal Physiology, University of Bayreuth

Some Awards and Service

1984	First prize in the national German science contest "Jugend forscht". Topic: Bioacoustics of the dwarf gourami
1986-1993	Scholarship of the Studienstiftung des deutschen Volkes
1990-1991	Fulbright Scholorship
1994	Various Scholarships to attend 'Neural Systems and Behavior' (Woods Hole, USA)
2008	Reinhart Koselleck Award of the DFG
2013-2015	Served as Vice-Dean Faculty of Biology, Chemistry and Geosciences, University of Bayreuth
2013-2015	Served as Vice to the President at the Senate of the University Bayreuth
2015-2017	Served as (elected) Dean of the Faculty of Biology, Chemistry, Geosciences, University of Bayreuth
2021	Faculty Teaching Award

Ten selected publications

Hecker, A., Schulze, W., Oster, J., Richter, D. O., **Schuster, S.** (2020). Removing a single neuron in a vertebrate brain abolishes an essential behavior. PNAS 117, 3254-3260.

Hecker, A., Anger, P., Braaker, P. N., Schulze, W., **Schuster, S.** (2020). High-resolution mapping of injury-site dependent functional recovery in a single axon in zebrafish. Commun. Biol. 3, 307.

Welzel, G., **Schuster, S.** (2018). Long-term potentiation in an innexin-based electrical synapse. Sci. Rep. 8, 12579.

Rischawy, I., Blum, M., **Schuster, S.** (2015). Competition drives sophisticated hunting skills of archerfish in the wild. Curr. Biol. 25, R595-R597.

Welzel, G., Seitz, D., **Schuster, S.** (2015). Magnetic-activated cell sorting (MACS) can be used as a large-scale method for establishing zebrafish neuronal cell cultures. Sci. Rep., srep07959

Gerullis, P., **Schuster, S.** (2014). Archerfish actively control the hydrodynamics of their jets. Curr. Biol. 24, 2156-2160.

Schlegel, T., **Schuster, S.** (2008). Small circuits for large tasks: highspeed decision-making in archerfish. Science 319, 104-106.

Schuster, S., Wöhl, S., Griebsch, M., Klostermeier, I. (2006). Animal cognition: how archer fish learn to down rapidly moving targets. Curr. Biol. 16, 378-383.

Schuster, S., Strauss, R., Götz, K. G. (2002). Virtual-reality techniques resolve the visual cues used by fruitflies to evaluate object distances. Curr. Biol. 12, 1591-1594.

Schuster, S., Gross, R., Mayer, B., Hübener, R. P. (1993). Thermal-noise-induced resistance and supercurrent correlation function in $YBa_2Cu_3O_{7-d}$ grain-boundary Josephson junctions. Phys. Rev. B 48, 16172-16175.