

Prof. Dr. FRANK KIRCHHOFF

Date of birth: 01 November, 1960
Gender: Male
Address: University of Saarland
Center for Integrative Physiology and Molecular
Medicine
Building 48
66421 Homburg, Germany
Phone: +49 6841 1616 440
Email: frank.kirchhoff@uks.eu
Position: Professor of Molecular Physiology (W3)
Children: Two (* 1981, * 1982)



CURRICULUM VITAE

University education

1981 - 1986 Studies of Biochemistry, University of Hannover

Scientific degrees

1998 Habilitation and Venia legendi in Biochemistry, Free University of Berlin,
Mentors: Prof. Dr. Ferdinand Hucho/Prof. Dr. Helmut Kettenmann
1990 Doctoral dissertation in Neurobiology, Institute for Neurobiology, Heidelberg
University, Mentor: Prof. Dr. Melitta Schachner
1986 Diploma thesis, Institute of Neurobiology, University of Heidelberg, Mentor:
Prof. Dr. Melitta Schachner

Professional experience

Since 2009 Full Professor (W3) for Molecular Physiology, University of Saarland,
Homburg
2000 - 2009 Group leader „Glial Physiology and Imaging“, Department of Neurogenetics
(Head of Department: Prof. Dr. Klaus-Armin Nave), Max Planck Institute for
Experimental Medicine, Göttingen
1998 - 2008 Lecturer Free University Berlin
1995 - 1999 Research Assistant „Cellular Neurosciences“ (Prof. Dr. Helmut Kettenmann),
Max Delbrück Center for Molecular Medicine, Berlin
1991 - 1994 Research Assistant „Cellular Neurobiology“, Institute for Neurobiology,
Heidelberg University (PD Dr. Helmut Kettenmann)

Academic functions and awards:

Panels and coordinating functions:

Since 2018 Senator at the University of Saarland
2016 - present Coordinator EU-H2020-MSCA ITN EU-GliaPhD
2013 - present Coordinator of the DFG Priority Program SPP 1757 “Glial Heterogeneity”

Reviewing Boards:

Since 2012 Member of the International Scientific Advisory Committee of the Achucarro Basque Center for Neuroscience, Bilbao, Spain

Awards and honours:

Since 2016 Member Academia Europaea
 Since 2014 Visiting Professor at University of Medicine and Pharmacy of Craiova, Craiova, Romania
 Since 2014 Visiting Professor at the University of Campinas, Campinas, Brazil
 2010 Offer Full Professorship (W3) for Anatomy, University of Bonn and Group leader at Research Center caesar (Bonn), declined
 1987 - 1989 Doctoral scholarship from the Boehringer Ingelheim Fonds
 1981 - 1986 Scholarship from the Studienstiftung des deutschen Volkes

Editorial boards:

Since 2018 Editorial board of Neuroforum
 Since 2010 Editorial Board of the „Journal of Chemical Neuroanatomy“
 Since 2009 Editorial Board of „GLIA“

A) Publications:

- Huang W, Bai X, Stopper L, Catalin B, Cartarozzi LP, Scheller A, Kirchhoff F. During development NG2 glial cells of the spinal cord are restricted to the oligodendrocyte lineage, but generate astrocytes upon acute injury. **Neuroscience** 2018;385:154-165.
- Cartarozzi LP, Rieder P, Bai X, Scheller A, Oliveira ALR, Kirchhoff F. In vivo two-photon imaging of motoneurons and adjacent glia in the ventral spinal cord. **Journal of Neuroscience Methods** 2018;299:8-15.
- Huang W, Zhao N, Bai X, Karram K, Trotter J, Goebbels S, Scheller A, Kirchhoff F. Novel NG2-CreERT2 knock-in mice demonstrate heterogeneous differentiation potential of NG2 glia during development. **Glia** 2014;62(6):896-913.
- Saab AS, Neumeyer A, Jahn HM, Cupido A, Simek AA, Boele HJ, Scheller A, Le Meur K, Gotz M, Monyer H, Sprengel R, Rubio ME, Deitmer JW, De Zeeuw CI, Kirchhoff F. Bergmann glial AMPA receptors are required for fine motor coordination. **Science** 2012;337(6095):749-753.
- Erturk A, Mauch CP, Hellal F, Forstner F, Keck T, Becker K, Jahrling N, Steffens H, Richter M, Hubener M, Kramer E, Kirchhoff F, Dodt HU, Bradke F. Three-dimensional imaging of the unsectioned adult spinal cord to assess axon regeneration and glial responses after injury. **Nature Medicine** 2011;18(1):166-171.
- Dibaj P, Nadrigny F, Steffens H, Scheller A, Hirrlinger J, Schomburg ED, Neusch C, Kirchhoff F. NO mediates microglial response to acute spinal cord injury under ATP control in vivo. **Glia** 2010;58(9):1133-1144.
- Hirrlinger J, Scheller A, Hirrlinger PG, Kellert B, Tang W, Wehr MC, Goebbels S, Reichenbach A, Sprengel R, Rossner MJ, Kirchhoff F. Split-cre complementation indicates coincident activity of different genes in vivo. **PLoS one** 2009;4(1):e4286.
- Hirrlinger PG, Scheller A, Braun C, Hirrlinger J, Kirchhoff F. Temporal control of gene

recombination in astrocytes by transgenic expression of the tamoxifen-inducible DNA recombinase variant CreERT2. **Glia** 2006;54(1):11-20.

Nimmerjahn A, Kirchhoff E, Helmchen F. Resting microglial cells are highly dynamic surveillants of brain parenchyma in vivo. **Science** 2005;308(5726):1314-1318.

Hirrlinger PG, Scheller A, Braun C, Quintela-Schneider M, Fuss B, Hirrlinger J, Kirchhoff E. Expression of reef coral fluorescent proteins in the central nervous system of transgenic mice. **Molecular and Cellular Neurosciences** 2005;30(3):291-303.

B) Patents: -

Scientific collaborations beyond the planned Collaborative Research Centre

Klaus-Armin Nave, MPI for Experimental Medicine, Göttingen, Germany

Alfonso Araque, University of Minneapolis, Minnesota, USA

Etienne Audinat, University of Montpellier, Montpellier, France

Johannes Hirrlinger, University of Leipzig, Leipzig, Germany

Helmut Kettenmann, Max Delbrück Center for Molecular Medicine, Berlin, Germany

Christian Steinhäuser, Institute of Cellular Neurosciences, University of Bonn, Germany

Jörn Walter, Institute for Genetics and Epigenetics, University of Saarland, Saarbrücken. Ger.