

**Prof. Dr. FRANK KIRCHHOFF****1) General information**

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-(0)6841-1616 440  
 Email: frank.kirchhoff@uks.eu  
 Position: Professor of Molecular Physiology (W3)  
 Children: Two (\* 1981, \* 1982)  
 Parental leave, if applicable: None

**2) University training and degree**

1981 - 1986 Studies of Biochemistry, University of Hannover

**3) Advanced academic qualifications**

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

**4) Postgraduate professional career**

Since 2009 Full Professor (W3) for Molecular Physiology, University of Saarland,  
 Homburg  
 2000 - 2009 Group leader „Glial Physiology and Imaging“, Department of Neurogenetics,  
 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)

**5) Other**Awards and honours:

Since 2016 Member Academia Europaea  
 Since 2021 Adjunct Professor at University of Medicine and Pharmacy of Craiova  
 2014 - 2021 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

Panels and coordinating functions:

- 2021 - 2023 Vice president of the German Neuroscience Society
- 2018 - 2021 Senator at the University of Saarland
- 2016 - 2022 Coordinator EU-H2020-MSCA ITN EU-GliaPhD
- 2013 - 2022 Coordinator of the DFG Priority Program SPP 1757 "Glial Heterogeneity"

Reviewing Boards:

- 2012 - 2022 Member of the International Scientific Advisory Committee of the Achucarro Basque Center for Neuroscience, Bilbao, Spain

Editorial boards:

- Since 2018 Editorial board of Neuroforum
- 2010 - 2020 Editorial Board of the „Journal of Chemical Neuroanatomy“
- Since 2009 Editorial Board of „GLIA“

## 6) Publications

### A)

- Schweigmann M, Caudal LC, Stopper G, Scheller A, Koch KP, Kirchhoff F. (2021) Versatile Surface Electrodes for Combined Electrophysiology and Two-Photon Imaging of the Mouse Central Nervous System. **Front Cell Neurosci**; 15:720675, 2021.
- Huang W, Guo Q, Bai X, Scheller A, Kirchhoff F. Early embryonic NG2 glia are exclusively gliogenic and do not generate neurons in the brain. **Glia**; 67:1094-1103, 2019.
- 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**; 385:154-165, 2018.
- 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**; 299: 8-15, 2018.
- 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**; 62(6):896-913, 2014.
- 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**; 337(6095):749-753, 2012.
- 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**; 18(1):166-171, 2011.

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**; 58(9):1133-1144, 2010.

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**; 54(1):11-20, 2006.

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

**B) other publications:** -

**C) Patents:** -

