

Curriculum Vitae

Personal Data

Title	Dr. rer. nat.
First name	Anja
Name	Scheller
Current position	PI, permanent position
Current institution(s)/site(s), country	University of Saarland/Homburg, Germany
Identifiers/ORCID	0000-0001-8955-2634

Qualifications and Career

Stages	Periods and Details
Degree programme	04/1999 – 06/2004: Biochemistry (Diplom) FU Berlin/Germany
Doctorate	07/2004 – 12/2008 Dr. rer. nat. Max-Planck-Institute for experimental Medicine/Goettingen and FU Berlin/Germany
Stages of academic/professional career (<i>optional after doctorate</i>)	Since 06/2015 PI and lecturer, University of Saarland/Homburg and Saarbruecken 01/2013 – 06/2015 Junior PI and lecturer, University of Saarland/Homburg, Germany 01/2009 – 12/2011 Postdoc Max-Planck-Institute for Experimental Medicine

Supplementary Career Information

01.2009 – 04.2009 Maternity leave (second daughter)

01.2006 – 06/2006 Maternity leave (first daughter)

Supervision of Researchers in Early Career Phases

Bachelor thesis: 20, Master thesis: 11, MD thesis: 2, PhD thesis: 3

Scientific Results

Category A (selection)

Bai X, Kirchhoff F, Scheller A (2021) Oligodendroglial GABAergic Signaling: More Than Inhibition! *Neurosci Bull* 37:1039-1050.

Bai X, Saab AS, Huang W, Hoberg IK, Kirchhoff F, Scheller A (2013) Genetic background affects human glial fibrillary acidic protein promoter activity. *PLoS One* 8:e66873.

Bai X, Zhao N, Koupourtidou C, Fang LP, Schwarz V, Caudal LC, Zhao R, Hirrlinger J, Walz W, Bian S, Huang W, Ninkovic J, Kirchhoff F, Scheller A (2023) In the mouse cortex, oligodendrocytes regain a plastic capacity, transforming into astrocytes after acute injury. *Dev Cell* 58:1153-1169.e1155. Selected as 'DPG - Paper of the Month' Juli 2023.

- Hirrlinger PG, Scheller A, Braun C, Hirrlinger J, Kirchhoff F (2006) Temporal control of gene recombination in astrocytes by transgenic expression of the tamoxifen-inducible DNA recombinase variant CreERT2. *Glia* 54:11-20.
- Hirrlinger PG*, Scheller A*, Braun C, Quintela-Schneider M, Fuss B, Hirrlinger J, Kirchhoff F (2005) Expression of reef coral fluorescent proteins in the central nervous system of transgenic mice. *Mol Cell Neurosci* 30:291-303.
- Huang W, Bai X, Meyer E, Scheller A (2020) Acute brain injuries trigger microglia as an additional source of the proteoglycan NG2. *Acta Neuropathol Commun* 8:146.
- Jahn HM, Kasakow CV, Helfer A, Michely J, Verkhratsky A, Maurer HH, Scheller A, Kirchhoff F (2018) Refined protocols of tamoxifen injection for inducible DNA recombination in mouse astroglia. *Sci Rep* 8:5913.
- Katz E*, Stoler O*, Scheller A*, Khrapunsky Y, Goebbels S, Kirchhoff F, Gutnick MJ, Wolf F, Fleidervish IA (2018) Role of sodium channel subtype in action potential generation by neocortical pyramidal neurons. *Proc Natl Acad Sci U S A*.
- Meyer E, Scheller A (2023) Pathology-induced NG2 proteoglycan expression in microglia. *Neural Regen Res* 18:801-802.
- Resende FF, Bai X, Del Bel EA, Kirchhoff F, Scheller A, Titze-de-Almeida R (2016) Evaluation of TgH(CX3CR1-EGFP) mice implanted with mCherry-GL261 cells as an in vivo model for morphometrical analysis of glioma-microglia interaction. *BMC Cancer* 16:72.
- Rieder P, Gobbo D, Stopper G, Welle A, Damo E, Kirchhoff F, Scheller A (2022) Astrocytes and Microglia Exhibit Cell-Specific Ca²⁺ Signaling Dynamics in the Murine Spinal Cord. *Front Mol Neurosci* 15:840948.
- Scheller A, Kirchhoff F (2016) Endocannabinoids and Heterogeneity of Glial Cells in Brain Function. *Front Integr Neurosci* 10:24.
- Scheller A, Bai X, Kirchhoff F (2017) The Role of the Oligodendrocyte Lineage in Acute Brain Trauma. *Neurochem Res*.
- Schnell C, Negm M, Driehaus J, Scheller A, Hülsmann S (2015) Norepinephrine-induced calcium signaling in astrocytes in the respiratory network of the ventrolateral medulla. *Respir Physiol Neurobiol*.
- Stopper L, Bălșeanu TA, Cătălin B, Rogoveanu OC, Mogoantă L, Scheller A (2018) Microglia morphology in the physiological and diseased brain - from fixed tissue to in vivo conditions. *Rom J Morphol Embryol* 59:7-12.
- Zhao N, Huang W, Cătălin B, Scheller A, Kirchhoff F (2021) L-type Ca²⁺ channels of NG2-glia determine proliferation and NMDA receptor-dependent plasticity. In: *Front. Cell Dev. Biol.*

Category B

- Scheller A, Kirchhoff F (2007) Leuchtende Proteine im Nervensystem der Maus. *e-Neuroforum* Band 13:93–99.
- Scheller A, Kirchhoff F (2009) Astrocyte: Identification Methods. In: *Encyclopedia of Neuroscience*, pp 573–577: Elsevier.

Academic Distinctions

Two times awardee of “Preis der Lehre”, Humanmedizin (2017 and 2021)