

Jacqueline Trotter



Molecular Cell Biology
Dept. of Biology

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Curriculum vitae

since 2000	Professor for Cell Biology (C3) at the Dept. of Biology, Johannes Gutenberg University of Mainz.
1999 – 2000	Hermann and Lilly Schilling-Stiftung Professor for Neurobiology, Dept. of Neurobiology, University of Heidelberg.
1993 – 1999	Hochschuldozentin, Dept. of Neurobiology, University of Heidelberg.
1991	Habilitation, Dept. of Biology, University of Heidelberg.
1985 - 1993	Potsdoctoral fellow and then group leader, Dept. of Neurobiology, University of Heidelberg
1981 – 1984	Postdoctoral Fellowship, Dept. of Neurology, Stanford University School of Medicine, California, USA
1978 -1981	Postdoctoral Fellowship, MPI for Immunobiology, Freiburg, Germany
1974 – 1978	Doctor of Philosophy, University of York, England
1973 – 1974	“Stagiare” with the European Union in Brussels and Luxembourg
1970 – 1973	Biology with Chemistry, University of York, England

Research fields

Molecular mechanism of myelination and remyelination,
axon-glia interactions and neuromodulatory role of glial cells,
oligodendroglial progenitor cells in synaptic function,
neuroimmune interactions

Activities in the scientific community, honors, awards

since 1997	Member of the Editorial Board of GLIA.
Since 2009	Member of the scientific advisory board of the European Leukodystrophy Foundation.
1985 - 1986	Fellow of the Alexander von Humboldt Stiftung
1978-1981	Fellowship from the Royal Society, London

Selected publications

- Niehaus, A., Stegmüller, J., Diers-Fenger, M. and **Trotter, J.** (1999) Cell-surface glycoprotein of oligodendrocyte progenitors involved in migration. *J. Neurosci.* 19, 4948-4961.
- Krämer, E-M., Klein, C., Koch, T., Boytinck, M. and **Trotter, J.** (1999) Compartmentation of fyn kinase with glycosyl-phosphatidyl inositol-anchored molecules in oligodendrocytes facilitates kinase activation during myelination. *J. Biol. Chem.* 274, 29042-29049.
- Simons, M., Krämer, E-M., Thiele, C., Stoffel, W., and **Trotter, J.** (2000) Assembly of myelin by association of Proteolipid Protein with cholesterol- and galactosylceramide-rich membrane domains. *J. Cell Biol.*, 151, 143-154.
- Klein, C., Krämer, E-M., Marie-Cardine, A., Schraven, B., Brandt, R., and **Trotter, J.** (2002) Process outgrowth of oligodendrocytes is promoted by interaction of Fyn kinase with the cytoskeletal protein Tau. *J. Neurosci.*, 22: 698-707.
- Stegmüller J., Werner, H., Nave, K-A., **Trotter J.** (2003) The proteoglycan NG2 is complexed with AMPA receptors by the PDZ protein GRIP in glial progenitor cells: implications for glial-neuronal signalling. *J. Biol. Chem.* 278: 3590-3598.
- White R., Gonsior C., Krämer-Albers E., Stöhr N., Hüttelmaier S., and **Trotter J.** (2008) Activation of oligodendroglial Fyn kinase enhances translation of mRNAs transported in hnRNP A2-dependent RNA granules. *J. Cell Biol.*, 181 (4), 579-586.
- White R, Gonsior C, Bauer NM, Krämer-Albers EM, Luhmann HJ, and **Trotter J.** (2012) Heterogeneous nuclear ribonucleoprotein (hnRNP) F is a novel component of oligodendroglial RNA transport granules contributing to regulation of myelin basic protein (MBP) synthesis. *J Biol Chem.* 2012 Jan 13;287(3):1742-54.
- Binamé F, Sakry D, Dimou L, Jolivel V, and **Trotter J.** (2013) NG2 Regulates Directional Migration of Oligodendrocyte Precursor Cells via Rho GTPases and Polarity Complex Proteins *J. Neurosci.* 33(26):10858-10874.