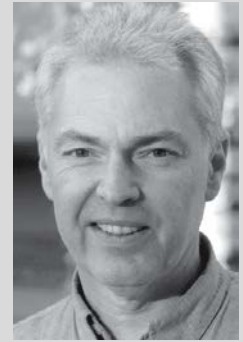


## Helmut Kettenmann

Max Delbrück Center for Molecular Medicine (MDC)  
Cellular Neuroscience  
Robert-Rössle-Str. 10 | D-13092 Berlin  
Phone: +49 (0)30 9406-3325  
Email: kettenmann@mdc-berlin.de



### Curriculum vitae

since 1996	Professor (W3), Cellular Neurobiology, Humboldt-Universität zu Berlin
since 1993	Research group leader, Cellular Neurosciences, Max Delbrück Center for Molecular Medicine Berlin-Buch
1993 - 2009	Coordinator of the Research Area Function and Dysfunction of the Nervous System at the Max Delbrueck Center for Molecular Medicine (MDC) Berlin
1992 - 1995	Head of project group, Neurobiology, Dept. of Neurobiology, University of Heidelberg
1987 - 1992	Heisenberg fellow, Department of Neurobiology, University of Heidelberg
1982 - 1987	Habilitation, University of Heidelberg
1980 - 1982	PhD, Biology, University of Heidelberg
1973 - 1980	MS, Biology, Universities of Heidelberg and Miami

### Research fields

The present research program focuses on three topics:

- the role of astrocytes in information processing
- response of microglial cells to brain injury
- interaction of gliomas with glial cells

### Activities in the scientific community, honors, awards

since 2013	President, German Neuroscience Society (NWG)
since 2011	Member, review panel, Swiss National Science Foundation NCCR SYNAPSY
2008 - 2010	President, Federation of European Neuroscience Societies (FENS)
2007 - 2011	Member, Society for Neuroscience Committee on Committees
since 2007	Member, Advisory Board Neuroscience, Research Center Jülich
since 2007	Member, Academia Europaea
2006 - 2011	Speaker, Research Training School (DFG Graduiertenkolleg), "The Impact of Inflammation on Nervous System Function"
2005 - 2006	Board member, FENS Trust Foundation
2005	Future prize of the Helmholtz Association of German Research Centres
since 2004	Member, Search Committee for Life Sciences, Koerber European Science Award
since 2003	Member, German Academy of Natural Scientists, Leopoldina
since 2002	Head, Admissions and Examination Commission, International Graduate Program Medical Neurosciences, Charité
2000 - 2006	Member of the Review Board (BMBF) "Improving structures for clinical research in the new German Länder", reporting referee for Leipzig
since 2000	Member, DANA Alliance

1998 - 2007	Vice-Chair, Collaborative Research Center (SFB) 507, "The function of non-neuronal cells in neurological diseases"
1998 - 2002	Treasurer, Federation of European Neuroscience Societies (FENS)
1997 - 2003	Coordinator, DFG Priority Program, "The role of microglial cells in pathology"
1995 - 2012	Editor-in-Chief, Neuroforum
1995 - 2003	Chair, Scientific Review Board, Interdisciplinary Center for Clinical Research, University of Leipzig (IDZL)
1993 - 2006	Secretary General, German Neuroscience Society
1990 - 1997	Coordinator, DFG Priority Program "Functions of glial cells"
1991	German University Software Prize
since 1990	Reviewer, German Research Council (DFG), European Commission, different national and international institutions and scientific journals
since 1988	Editor-in-Chief, GLIA
1984	Heinz Maier-Leibnitz Prize for biological research on membrane, BMBF
1984	Junior Research Award of the science-mathematical faculty, University of Heidelberg

### Selected publications

- Wendt S, Wogram E, Korvers L, Kettenmann H. Experimental Cortical Spreading Depression Induces NMDA Receptor Dependent Potassium Currents in Microglia. *J Neurosci*. 2016;36(23):6165-74.
- Hambardzumyan D, Gutmann DH, Kettenmann H. The role of microglia and macrophages in glioma maintenance and progression. *Nature Neuroscience*. 2016;19(1):20-7.
- Kettenmann H, Kirchhoff F, Verkhratsky A. Microglia: new roles for the synaptic stripper. *Neuron*. 2013;77(1):10-8.
- Tress O, Maglione M, May D, Pivneva T, Richter N, Seyfarth J, Binder S, Zlomuzica A, Seifert G, Theis M, Dere E, Kettenmann H, Willecke K. Panglial Gap Junctional Communication is Essential for Maintenance of Myelin in the CNS. *Journal of Neuroscience*. 2012;32(22):7499-518.
- Stock K, Kumar J, Synowitz M, Petrosino S, Imperatore R, Smith ES, Wend P, Purfurst B, Nuber UA, Gurok U, Matyash V, Walzlein JH, Chirasani SR, Dittmar G, Cravatt BF, Momma S, Lewin GR, Ligresti A, De Petrocellis L, Cristino L, Di Marzo V, Kettenmann H, Glass R. Neural precursor cells induce cell death of high-grade astrocytomas through stimulation of TRPV1. *Nat Med*. 2012;18(8):1232-8.
- Krabbe G, Matyash V, Pannasch U, Mamer L, Boddeke HW, Kettenmann H. Activation of serotonin receptors promotes microglial injury-induced motility but attenuates phagocytic activity. *Brain Behav Immun*. 2012;26(3):419-28.
- Charles NA, Holland EC, Gilbertson R, Glass R, Kettenmann H. The Brain Tumor Microenvironment. *Glia*. 2011;59(8):1169-80.
- Benedetti B, Matyash V, Kettenmann H. Astrocytes control GABAergic inhibition of neurons in the mouse barrel cortex. *J Physiol-London*. 2011;589(5):1159-72.
- Maglione M, Tress O, Haas B, Karram K, Trotter J, Willecke K, Kettenmann H. Oligodendrocytes in Mouse Corpus Callosum are Coupled Via Gap Junction Channels Formed by Connexin47 and Connexin32. *Glia*. 2010;58(9):1104-17.
- Markovic DS, Vinnakota K, Chirasani S, Synowitz M, Raguet H, Stock K, Sliwa M, Lehmann S, Kalin R, van Rooijeng N, Holmbeck K, Heppner FL, Kiwit J, Matyash V, Lehnardt S, Kaminska B, Glass R, Kettenmann H. Gliomas induce and exploit microglial MT1-MMP expression for tumor expansion. *Proceedings of the National Academy of Sciences of the United States of America*. 2009;106(30):12530-5.

Hanisch UK, Kettenmann H. Microglia: active sensor and versatile effector cells in the normal and pathologic brain. *Nature Neuroscience*. 2007;10(11):1387-94.

Glass R, Synowitz M, Kronenberg G, Walzlein JH, Markovic DS, Wang LP, Gast D, Kiwit JRR, Kempermann G, Kettenmann H. Glioblastoma-induced attraction of endogenous neural precursor cells is associated with improved survival. *Journal of Neuroscience*. 2005;25(10):2637-46.