

Carmen Birchmeier

Max Delbrück Center for Molecular Medicine (MDC)
Developmental Biology/Signal Transduction
Robert-Rössle-Str. 10 | D-13125 Berlin
Phone: +49 (0)30 9406-2403
Email: cbirch@mdc-berlin.de



Curriculum vitae

since 2009	Member, Board of Directors, NeuroCure Cluster of Excellence
since 2002	Coordinator/Chair, Max Delbrück Center for Molecular Medicine Neuroscience Program
since 2002	Professor (C4-S), Medical Faculty of the Freie Universität Berlin and the Charité - Universitätsmedizin Berlin
since 1995	Head, research group, Max Delbrück Centre for Molecular Medicine Berlin 1989 - 1995 Head, independent junior group, MDL/MPG, Cologne
1986 - 1989	Staff scientist, Cold Spring Harbor Laboratory, NY 1984 - 1986 Postdoc, Cold Spring Harbor Laboratory, NY 1979 - 1984 PhD thesis, University of Zürich
1974 - 1979	Studies in Chemistry/Biochemistry, University of Konstanz; University of California, San Diego; ETH Zürich. Diploma/Masters ETH Zürich

Research fields

- Main field: Developmental biology, mouse genetics
- Current research interest: Development of the nervous system and muscle

Activities in the scientific community, honors, awards

- Member of scientific advisory boards:
 - Max Planck Institute for Biophysical Chemistry, Göttingen,
 - Leibniz Institute for Age Research (FLI), Jena,
 - CellNetworks (Cluster of Excellence) Universität Heidelberg,
 - BioInterfaces Research Programm, KIT, Karlsruhe
- Member, editorial board of Development
- Member, German Research Foundation Fachkollegium "Grundlagen der Medizin"
- Deputy speaker, Collaborative Research Centre (SFB) 665; "Developmental disturbances in the nervous system"
- Leibniz Prize, German Research Foundation (DFG)
- Member, European Molecular Biology Organization (EMBO), Academia Europaea
- Bennigsen Förderpreis des Landes Nordrhein-Westfalen

Selected publications

Sheean ME, McShane E, Cheret C, Walcher J, Muller T, Wulf-Goldenberg A, Hoelper S, Garratt AN, Kruger M, Rajewsky K, Meijer D, Birchmeier W, Lewin GR, Selbach M, Birchmeier C. Activation of MAPK overrides the termination of myelin growth and replaces Nrg1/ErbB3 signals during Schwann cell development and myelination. *Genes Dev.* 2014;28(3):290-303.

Cheret C, Willem M, Fricker FR, Wende H, Wulf-Goldenberg A, Tahirovic S, Nave KA, Saftig P, Haass C, Garratt AN, Bennett DL, Birchmeier C. Bace1 and Neuregulin-1 cooperate to control formation and maintenance of muscle spindles. *Embo J.* 2013;32(14):2015-28.

Wende H, Lechner SG, Cheret C, Bourane S, Kolanczyk ME, Pattyn A, Reuter K, Munier FL, Carroll P, Lewin GR, Birchmeier C. The transcription factor c-Maf controls touch receptor development and function. *Science (New York, NY.* 2012;335(6074):1373-6.

Brohl D, Vasyutina E, Czajkowski M, Griger J, Rassek C, Rahn H-P, Purfürst B, Wende H, Birchmeier C. Colonization of the satellite cell niche by skeletal muscle progenitor cells depends on Notch signals. *Dev Cell.* 2012;23(3):469-81.

Vasyutina E, Lenhard DC, Wende H, Erdmann B, Epstein JA, Birchmeier C. RBP-J (Rbpsi) is essential to maintain muscle progenitor cells and to generate satellite cells. *Proceedings of the National Academy of Sciences of the United States of America.* 2007;104(11):4443-8.

Sieber MA, Storm R, Martinez-de-la-Torre M, Muller T, Wende H, Reuter K, Vasyutina E, Birchmeier C. Lbx1 acts as a selector gene in the fate determination of somatosensory and viscerosensory relay neurons in the hindbrain. *J Neurosci.* 2007;27(18):4902-9.

Willem M, Garratt AN, Novak B, Citron M, Kaufmann S, Rittger A, DeStrooper B, Saftig P, Birchmeier C, Haass C. Control of peripheral nerve myelination by the beta-secretase BACE1. *Science (New York, NY.* 2006;314(5799):664-6.

Muller T, Anlag K, Wildner H, Britsch S, Treier M, Birchmeier C. The bHLH factor Olig3 coordinates the specification of dorsal neurons in the spinal cord. *Genes Dev.* 2005;19(6):733-43.

Muller T, Brohmann H, Pierani A, Heppenstall PA, Lewin GR, Jessell TM, Birchmeier C. The homeodomain factor *lhx1* distinguishes two major programs of neuronal differentiation in the dorsal spinal cord. *Neuron.* 2002;34(4):551-62.

Riethmacher D, Sonnenberg-Riethmacher E, Brinkmann V, Yamaai T, Lewin GR, Birchmeier C. Severe neuropathies in mice with targeted mutations in the ErbB3 receptor. *Nature.* 1997;389(6652):725-30.