

Carmen Birchmeier

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Developmental Biology/Signal Transduction
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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, Müller T, Wulf-Goldenberg A, Hoelper S, Garratt AN, Krüger 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, 290-303.

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. *Cheret. EMBO J.* 2013; 32, 2015-28.

Bröhl D, Vasyutina E, Czajkowski MT, Griger J, Rassek C, Rahn HP, 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, 469-81.

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.* 2012; 335, 1373-6.

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, 4902-9.

Vasyutina E, Lenhard DC, Wende H, Erdmann B, Epstein JA, Birchmeier C. RBP-J (Rbpsuh) is essential to maintain muscle progenitor cells and to generate satellite cells. *Proc Natl Acad Sci USA.* 2007; 104, 4443-8.

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.* 2006; 314, 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, 733-43.

Muller T, Brohmann H, Pierani A, Heppenstall PA, Lewin GR, Jessell TM, Birchmeier C. The homeodomain factor lbx1 distinguishes two major programs of neuronal differentiation in the dorsal spinal cord. *Neuron.* 2002; 34, 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, 725-30.