

Professor Dr. med. Ingo Bechmann



Date of Birth: 28.10.1968
Institute Address: Institut für Anatomy
Universität Leipzig
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Email: ingo.bechmann@medizin.uni-leipzig.de
Current Position: Full Professor for Anatomy (W3)
Marital Status: Married to Dr. Zahra Bechmann (*Shishechiha) since 1996
Children: Two (born in 1996 and 2003)

Academic Training:

1991–1998 Medical schools at Gothe-University, Frankfurt/Main, Humboldt University (Charité), and Yale University

Scientific Certificates:

1999 Dissertation at Charité with the topic: *Identification of phagocytosing glial cells*
2001 Habilitation at Charité with the topic: *Mechanisms of immune privilege in the brain*

Professional Career:

1998-1999 Resident and Research Fellow at Department of Neurology at Charité (Prof. Einhäupl) and Institute of Anatomy, Dept. Cell- and Neurobiology at Charité (R. Nitsch)
1999-2002 Postdoctoral Scientist, Dept. Cell- and Neurobiology at Charité
2003 Offer professorship for neuroanatomy, Greifswald (declined)
2003-2004 Junior-Professor (W1) of Anatomy at Charité
2004 Offer professorship for neuroanatomy, Aachen (declined)
2004-2006 Assistant Professor (C3) of Anatomy at Charité
2006-2009 Associate Professor (W3) of Anatomy at Goethe-University, Frankfurt/Main
2009 Offers for chairs of Anatomy in Erlangen, Göttingen, and Leipzig
2009-present Director, Institute of Anatomy, University of Leipzig, Germany
2013-2016 Vice-Dean of Research, Medical Faculty, University of Leipzig
2016-present Vice Dean for Structure, Medical Faculty, University of Leipzig

Scientific Activities, Honors, Awards (selection):

- 1999 Robert-Koch-Award: Best thesis of the year at Charité
1999 Humboldt-Award: Best thesis of the year at Humboldt-University
2000 Ernst-Bumm-Award: Best Junior Scientist at Charité
2002 Wolfgang-Bargmann-Award of the Anatomical Society
2016 – Elected Member of the Grant Council "Anatomy" of the German Research Foundation (DFG)
2017 Teaching Award – Medical Faculty, University of Leipzig

Most Important Publications (max. 10):

a. Peer-reviewed Publications

1: Koch M, Varela L, Kim JG, Kim JD, Hernández-Nuño F, Simonds SE, Castorena CM, Vianna CR, Elmquist JK, Morozov YM, Rakic P, **Bechmann I**, Cowley MA, Szigeti-Buck K, Dietrich MO, Gao XB, Diano S, Horvath TL. Hypothalamic POMC neurons promote cannabinoid-induced feeding. *Nature*. 2015 Mar 5;519(7541):45-50.

2: Merz F, Gaunitz F, Dehghani F, Renner C, Meixensberger J, Gutenberg A, Giese A, Schopow K, Hellwig C, Schäfer M, Bauer M, Stöcker H, Taucher-Scholz G, Durante M, **Bechmann I**. Organotypic slice cultures of human glioblastoma reveal different susceptibilities to treatments. *Neuro Oncol*. 2013 Jun;15(6):670-81.

3: Proding C, Bunse J, Krüger M, Schiefenhövel F, Brandt C, Laman JD, Greter M, Immig K, Heppner F, Becher B, **Bechmann I**. CD11c-expressing cells reside in the juxtavascular parenchyma and extend processes into the glia limitans of the mouse nervous system. *Acta Neuropathol*. 2011 Apr;121(4):445-58.

4: Streit WJ, Braak H, Xue QS, **Bechmann I**. Dystrophic (senescent) rather than activated microglial cells are associated with tau pathology and likely precede neurodegeneration in Alzheimer's disease. *Acta Neuropathol*. 2009 Oct;118(4):475-85

5: **Bechmann I**, Galea I, Perry VH. What is the blood-brain barrier (not)? *Trends Immunol*. 2007 Jan;28(1):5-11. Epub 2006 Nov 30. PubMed PMID: 17140851.

6: **Bechmann I**, Goldmann J, Kovac AD, Kwidzinski E, Simbürger E, Naftolin F, Dirnagl U, Nitsch R, Priller J. Circulating monocytic cells infiltrate layers of anterograde axonal degeneration where they transform into microglia. *FASEB J*. 2005 Apr;19(6):647-9.

7: Kwidzinski E, Bunse J, Aktas O, Richter D, Mutlu L, Zipp F, Nitsch R, **Bechmann I**. Indolamine 2,3-dioxygenase is expressed in the CNS and down-regulates autoimmune inflammation. *FASEB J*. 2005 Aug;19(10):1347-9.

8: **Bechmann I**, Peter S, Beyer M, Gimsa U, Nitsch R. Presence of B7-2 (CD86) and lack of B7-1 (CD80) on myelin phagocytosing MHC-II-positive rat microglia is associated with nondestructive immunity in vivo. *FASEB J*. 2001 Apr;15(6):1086-8.

9: **Bechmann I**, Kwidzinski E, Kovac AD, Simbürger E, Horvath T, Gimsa U, Dirnagl

U, Priller J, Nitsch R. Turnover of rat brain perivascular cells. *Exp Neurol*. 2001 Apr; 168(2):242-9

10: Nitsch R*, **Bechmann I***, Deisz RA, Haas D, Lehmann TN, Wendling U, Zipp F. Human brain-cell death induced by tumour-necrosis-factor-related apoptosis-inducing ligand (TRAIL). *Lancet*. 2000 Sep 2;356(9232):827-8.

Scientific Collaborations in the Last Three Years:

K. Biber (Freiburg, Germany)
J. Eilers (Leipzig, Germany)
A. Flügel (Göttingen, Germany)
T.L. Horvath (New Haven, USA)
U. Kalinke (Hannover, Germany)
B. Ludewig (St. Gallen, Switzerland)
M. Prinz (Freiburg, Germany)
T. Schöneberg (Leipzig, Germany)
M. Soares (Oeras, Portugal)
W.J. Streit (Gainesville, USA)
M. Tschöpp (Munich, Germany)
A. Waisman (Mainz, Germany)