

Name **Prof. Dr. med. (I) Bernd K. Fleischmann**

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Education and academic positions

- 1979 – 1986 School of Medicine at the University of Bologna, Italy;
1983 – 1986 MD Thesis: “Tomographic analysis of the abdominal aortic wall after thrombo-arterectomy” (summa cum laude);
1987 – 1989 Senior House Officer in the Department of Internal Medicine at St. Elisabeth Hospital, Dillingen;
1989 – 1990 Senior House Officer in the Departments of Pathology and Internal Medicine of the University Clinics, Nottingham, UK;
1990 – 1991 Postdoctoral Scientist in the Laboratory of Prof. Dr. Dr. H. Hatt, Institute for Physiology, Technical University of Munich, Germany;
1991 – 1995 Postdoctoral Scientist in the Laboratory of Prof. Dr. M. Kotlikoff, University of Pennsylvania, Philadelphia, USA;
1995 – 2003 Research Associate, Institute for Neurophysiology (Director: Prof. Dr. J. Hescheler), University of Cologne, Germany;
2000 Habilitation in Physiology and Cell Biology;
2003 - Professor of Institute of Physiology I (W3), University of Bonn, Germany;
2004 Call for Professor of Stem Cell Biology and Chairman of the Institute of Regenerative Medicine, University of Nottingham (UK), declined
2009 Call for W3-Professor of Experimental Biomedicine, University of Heidelberg, declined

Current position

Professor and Chairman (W3), Institute of Physiology I, Rheinische Friedrich-Wilhelms-Universität Bonn

Research interests

Physiology und Pathophysiology of the Cardiovascular System, Cellular Signalling and Signal Transduction, Developmental Physiology, Stem Cell Biology, Regenerative Medicine

Memberships and professional functions

Editorial Board Member:

Reviews of Physiology, Biochemistry and Pharmacology;

Basic Research in Cardiology;

Stem Cells;

Honors and awards

2000, Habilitation award of the University of Cologne

Publications

Total number of publications: 109 (94 original papers, 15 reviews/editorials/book chapters)

Publications in: Nature, Cell, Nature Cell Biology, Nature Medicine, Nature Methods, Cell Stem Cells, Circulation (2), JCI, J. Cell. Biol. (2), JEM (2), PNAS (5) and others

1. Malan D, Wenzel D, Schmidt A, Geisen C, Raible A, Böck B, **Fleischmann BK***, Bloch W*. (2010). Endothelial β 1 integrins regulate sprouting and network formation during vascular development. *Development*, 137: 993-1002. *Corresponding authors. (IF 7.194)
2. Kim JB, Sebastiano V, Wu G, Araúzo-Bravo MJ, Sasse P, Gentile L, Ko K, Ruau D, Ehrich M, van den Boom D, Meyer J, Hübner K, Bernemann C, Ortmeier C, Zenke M, **Fleischmann BK**, Zaehres H, Schöler HR. (2009). Oct4-Induced Pluripotency in Adult Neural Stem Cells. *Cell*, 136: 411-419. (IF 31.152)
3. Roell W, Lewalter T, Sasse P, Tallini YN, Choi BR, Breitbach M, Doran R, Becher U, Hwang SM, Bostani T, von Maltzahn J, Hofmann A, Reining S, Doering B, Gabris B, Pfeifer A, Welz A, Willecke K, Salama G, Schrickel JW, Kotlikoff MI, **Fleischmann BK**. (2007). Engraftment of connexin43 expressing cells prevents post-infarct arrhythmia. *Nature*, 450 (7171): 819-824. (IF 28.751)
4. Kolossov E, Bostani T, Roell W, Breitbach M, Pillekamp F, Nygren JM, Sasse P, Rubenchik O, Fries JWU, Wenzel D, Geisen C, Xia Y, Lu Z, Duan Y, Kettenhofen R, Jovinge S, Bloch W, Bohlen H, Welz A, Hescheler J, Jacobsen SE, **Fleischmann BK**. (2006). Engraftment of engineered ES cell-derived cardiomyocytes but not BM cells restores contractile function to the infarcted myocardium. *J. Exp. Med.*, 203: 2315-2327. (IF 14.484)
5. Nygren J, Jovinge S, Breitbach M, Sawen P, Röhl W, Hescheler J, Taneera J, **Fleischmann BK**, Jacobsen SE. (2004). Rare bone-marrow derived cardiomyocytes through cell fusion but not transdifferentiation following myocardial infarction. *Nature Medicine*, 10: 494-501. (IF 31.223)