

**Prof. Katharina Fleischhauer, M.D.**



07 August, .1963 - Bonn (Germany)

Institute of Experimental Cellular Therapy  
University Hospital Essen  
Hufelandstrasse 55  
45122 Essen, Germany  
Phone: +49-201-723 4582  
Fax: +49-201-723 4546  
Email: [katharina.fleischhauer@uk-essen.de](mailto:katharina.fleischhauer@uk-essen.de)  
Married, 1 child

**Scientific Vita**

2013	-	present	Full Professor and Director of the Institute for Experimental Cellular Therapy (University Hospital Essen)
2001	-	2013	Director of the Research Unit of Molecular and Functional Immunogenetics and the Diagnostic HLA Tissue Typing Laboratory, Immunohematology & Blood Transfusion Service, San Raffaele Scientific Institute, Milan, Italy
2005			Board in Allergology and Clinical Immunology, Vita-Salute University San Raffaele, Milan, Italy
1997	-	2001	Staff Research Assistant, Department of Experimental Hematology, San Raffaele Scientific Institute, Milan, Italy
1992	-	1997	Postdoctoral Research Fellow, Department of Experimental Hematology, San Raffaele Scientific Institute, Milan, Italy
1988	-	1992	Research Associate, Department of Immunogenetics, Memorial Sloan Kettering Cancer Center, New York, USA
1985	-	1988	Doctoral Thesis University of Bonn, Institute for Medical Parasitology (Serologic Immune Response to <i>Toxoplasma gondii</i> )
1988			Medical Doctor, University of Bonn, Germany

**Selected Coordinating Functions and Awards**

- Co-Director German Registry for Stem Cell Transplantation and Cellular Therapy (DRST)
- Section Chair (Immunogenetics) of the Cell Therapy Immunobiology WP EBMT
- Chair Commission Stem Cell Transplantation German Society for Immunogenetics (DGI)
- Member (chair 2013-2021) Scientific Committee European Federation for Immunogenetics (EFI)
- 2023 Mortimer Bortin Award, Center for International Blood and Marrow Transplant Research
- 2019 Philip Levine Award, German Society for Immunohematology and Blood Transfusion
- 2016 Mechtild Harf Science Award, DKMS

11.12.2023

## Selected Publications

1. Crivello P, Arrieta-Bolaños E, He M, Wang T, Fingerson S, Gadalla SM, Paczesny S, Marsh SGE, Lee SJ, Spellman SR, Bolon YT, Fleischhauer K. Impact of the HLA Immunopeptidome on Survival of Leukemia Patients After Unrelated Donor Transplantation. *J Clin Oncol* 2023 May 1;41(13):2416-2427.
2. Fleischhauer K, Tran TH, Meisel R, Mytilienos J, Dreger P, Kröger N. Donor Selection for Allogeneic Hematopoietic Cell Transplantation. *Dtsch Arztebl Int* 2023, Apr 14;120(15):261-268.
3. Ruggeri A, De Wreede LC, Müller CR, Crivello P, Bonneville EF, Petersdorf EW, Socié G, Dubois V, Niittyvuopio R, Peräsaari J, Yakoub-Agha I, Cornelissen JJ, Wieten L, Gedde-Dahl T, Forcade E, Crawley CR, Marsh SGE, Gandemer V, Tholouli E, Bulabois CE, Huynh A, Choi G, Deconinck E, Itälä-Remes M, Lenhoff S, Bengtsson M, Johansson JE, Van Gorkom G, Hoogenboom JD, Vago L, Rocha V, Bonini C, Chabannon C, Fleischhauer K. Integrating biological HLA-DPB1 mismatch models to predict survival after unrelated hematopoietic cell transplantation. *Haematologica* 2023 Feb 1;108(2):645-652.
4. Arrieta-Bolaños E, Crivello P, He M, Wang T, Gadalla SM, Paczesny S, Marsh SGE, Lee SJ, Spellman SR, Bolon YT, Fleischhauer K. A core group of structurally similar HLA-DPB1 alleles drives permissiveness after hematopoietic cell transplantation. *Blood* 2022 Aug 11;140(6):659-663.
5. Meurer T, Crivello P, Metzger MF, Kester M, Megger DA, Chen W, van Veelen PA, van Balen P, Westendorf AM, Homa G, Layer SE, Turki AT, Griffioen M, Horn PA, Sitek B, Beelen DW, Falkenburg JHF, Arrieta-Bolaños E, Fleischhauer K. Permissive HLA-DPB1 mismatches in HCT depend on immunopeptidome divergence and editing by HLA-DM. *Blood* 2021 Feb 18;137(7):923-928.
6. Crivello P, Ahci M, Maaßen F, Wossidlo N, Arrieta-Bolaños E, Heinold A, Lange V, Falkenburg JHF, Horn PA, Fleischhauer K, Heinrichs S. Multiple Knockout of Classical HLA Class II  $\beta$ -Chains by CRISPR/Cas9 Genome Editing Driven by a Single Guide RNA. *J Immunol* 2019 Mar 15;202(6):1895-1903.
7. Fleischhauer K, Shaw BE, Gooley T, Malkki M, Bardy P, Bignon JD, Dubois V, Horowitz MM, Madrigal JA, Morishima Y, Oudshoorn M, Ringden O, Spellman S, Velardi A, Zino E, Petersdorf EW. Effect of T-cell-epitope matching at HLA-DPB1 in recipients of unrelated donor haemopoietic-cell transplantation: a retrospective study. *Lancet Oncol* 2012 Apr;13(4):366-74
8. Vago L, Perna SK, Zanussi M, Mazzi B, Barlassina C, Lupo Stanghellini MT, Perrelli NF, Cosentino C, Torri F, Angius A, Forno B, Casucci M, Bernardi M, Peccatori J, Corti C, Bondanza A, Ferrari M, Rossini S, Roncarolo MG, Bordignon C, Bonini C, Ciceri F, Fleischhauer K. Loss of mismatched HLA in leukemia after stem-cell transplantation. *N Engl J Med* 2009 Jul 30;361(5):478-88.
9. Zino E, Frumento G, Markt S, Sormani MP, Ficara F, Di Terlizzi S, Parodi AM, Sergeant R, Martinetti M, Bontadini A, Bonifazi F, Lisini D, Mazzi B, Rossini S, Servida P, Ciceri F, Bonini C, Lanino E, Bandini G, Locatelli F, Apperley J, Bacigalupo A, Ferrara GB, Bordignon C, Fleischhauer K. A T cell epitope encoded by a subset of HLA-DPB1 alleles determines non-permissive mismatches for hematological stem cell transplantation. *Blood* 2004 Feb 15;103(4):1417-24.
10. Fleischhauer K, Kernan NA, O'Reilly RJ, Dupont B, Yang SY. Bone Marrow Allograft Rejection by T lymphocytes recognizing a single amino acid difference in HLA-B44. *N Engl J Med* 1990 Dec 27;323(26):1818-22.