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Lab Manager and Junior Post-doc

15.07.1989, Duesseldorf (Germany)

PROFESSIONAL EXPERIENCE

- Since 05/2025 Lab Manager and Junior Post-Doc at the Institute for Experimental Cellular Therapy, University Hospital Essen (unlimited)
- 10/2023 - 10/2024 Parental leave
- 07/2020 - 04/2025 Lab Manager at the Institute for Experimental Cellular Therapy, University Hospital Essen (unlimited)

EDUCATIONAL BACKGROUND

- 12/2016 - 07/2020 **PhD** at the Institute for Experimental Cellular Therapy (University Hospital Essen) enrolled at the Faculty of Biology of the University Duisburg-Essen
- 10/2014 - 10/2016 **Master of Science** in Biology at the University of Duisburg-Essen
- 10/2010 - 08/2014 **Bachelor of Science** in Molecular Biology at the University of Applied Science Gelsenkirchen, department Recklinghausen
- 08/2000 - 07/2010 General qualification for University entrance at the Gymnasium Essen-Werden, Essen

RESEARCH EXPERIENCE

- 12/2016 - 07/2020 **PhD student** at the Institute for Experimental Cellular Therapy (University Hospital Essen) enrolled at the Faculty of Biology of the University Duisburg-Essen
Title: “ Modulation of T-cell alloreactivity by molecular and biochemical effects of HLA-DPB1 in haematopoietic stem cell transplantation”
- 05/2016 – 09/2016 **Master Thesis** at Institute for Experimental Cellular Therapy, University Hospital Essen, Essen, Germany
Title: “Molecular mechanisms of T-cell alloreactivity against polymorphic HLA-DP tissue-antigens in allogeneic haematopoietic stem cell transplantation”

- 11/2015 – 02/2016 **Internship** at Department for Molecular Genetics II, University Duisburg-Essen, Essen, Germany
Title: “Gene knockout of MTBP in cell culture by CRISPR/Cas”
- 09/2015 – 11/2015 **Internship** at Institute for Experimental Cellular Therapy, University Hospital Essen, Essen, Germany
Title:” Characterisation of HLA-DPB1 mismatches in the allogeneic haematopoietic stem cell transplantation – Genotyping of polymorphism rs9277534 in donor cells”
- 07/2014 – 08/2014 **Bachelor Thesis** at Institute of Legal Medicine, University Hospital Essen, Essen, Germany
Title: “Somatic and hereditary mutations in mitochondrial DNA in colon carcinoma”

MEMBERSHIP IN SCIENTIFIC SOCIETIES

- European Federation for Immunogenetics (EFI)

AWARDS & HONORS

- May 2025 Best Abstract Award, 31st European Immunogenetics and Histocompatibility Conference, Prag
- June 2021 Top Young Science Best Paper Award, University Duisburg-Essen
- May 2018 EFI Conference Travel Bursary European Federation of Immunogenetics
- May 2017 Best Abstract Award, 31st European Immunogenetics and Histocompatibility Conference, Mannheim/Heidelberg

FIELDS OF INTEREST

- Immunogenetics of hematopoietic stem cell transplantation, impact of single amino acid polymorphism on T cell alloreactivity, role of genetic polymorphism on expression of human leukocyte antigens

ORAL PRESENTATIONS

- European Federation for Immunogenetics (EFI) 2025
Oral: ”Characterization of a hematopoietic tissue-specific T-cell receptor alloreactive to HLA-DPB1”
- European Federation for Immunogenetics (EFI) 2022
Oral: “Towards the identification of hematopoietic tissue-specific T-cell receptors alloreactive to HLA-DPB1”
- European Federation for Immunogenetics (EFI) 2018
Oral: “Dissecting genetic control of HLA-DPB1 expression and its relation to structural mismatch models in hematopoietic stem cell transplantation”
- European Federation for Immunogenetics (EFI) 2017
Oral: “Dissecting the relative role of structural and expression polymorphism for T-cell allorecognition of HLA-DPB1”

PUBLICATIONS

- **Meurer T***, Crivello P*, Metzling M, 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 * shared first authorship
- **Meurer T**, Arrieta-Bolaños E, Metzling M, Langer MM, van Balen, Beelen DW, Horn PA, Fleischhauer K, Crivello P, Dissecting Genetic Control of HLA-DPB1 Expression and Its Relation to Structural Mismatch Models in Hematopoietic Stem Cell Transplantation. *Front Immunol* 2018 Oct; 9:2236
- Arrieta-Bolaños E, Crivello P, Metzling M, **Meurer T**, Ahci M, Rytlewski J, Vignali M Yusko E, van Balen P, Horn PA, Falkenburg JHF, Fleischhauer K, Alloreactive T Cell Receptor Diversity against Structurally Similar or Dissimilar HLA-DP Antigens Assessed by Deep Sequencing. *Frint Immunol* 2018 Feb; 9:280
- Kleist B, **Meurer T**, Poetsch M, Mitochondrial DNA alteration in primary and metastatic colorectal cancer: Different frequency and association with selected clinicopathological and molecular markers. *Tumour Biol.* 2017 Mar; 39(3): 1010428317692246
- Kleist B, Kempa M, **Meurer T**, Poetsch M, Correlation between DPYD gene variation and KRAS wild type status in colorectal cancer. *J Clin Pathol* 2016 Mar; 69(3):204-8