

Curriculum Vitae

Constanze Jakwerth Professor, Dr. rer. nat.
d.o.b. February 19th, 1987,

University Education

- 2022 – 2024 Privatdozentin - Habilitation in Molecular Immunology, ZAUM/IAF – Center of Allergy and Environment, Technical University of Munich (TUM) and Helmholtz Center Munich, Munich, Germany; Allergic priming of airway epithelium; Allergen-specific immunotherapy; Local allergic immune tolerance mechanisms
- 2010 – 2015 PhD – Doctorate in Experimental Medicine, Department Haematology & Oncology, Medical School, Technical University of Munich (TUM), Munich, Germany (PD Dr. Ringshausen, PhD certificate: 11.08.2016)
- 2009 – 2010 Master's Thesis (German Diploma thesis) in Molecular Medicine, Albert-Ludwigs-University, Freiburg, Germany (Supervisor: Prof. Dr. Hendrik Veelken), conducted at EpiVax Inc. in Providence, RI, USA (mentor: Dr. Anne Searls De Groot)
- 2004 – 2010 Master of Science (German Diploma) in Molecular Medicine, Albert-Ludwigs-University, Freiburg, Germany, Master Program of Molecular Medicine

Scientific Career

- Since 2020 Chair of the Institute for Lung Health, JLU/DZL, Giessen, Germany
- 2022 – today Principal Investigator, Airway Immunology Group, ZAUM/IAF – Center of Allergy and Environment, Technical University of Munich (TUM) and Helmholtz Center Munich, Munich, Germany, Airway Immunology Group (Prof. Carsten Schmidt-Weber)
- 2015 – 2022 Postdoctoral scientist in Airway Immunology, Allergy, Asthma, COVID-19, at the ZAUM/IAF – Center of Allergy and Environment, Technical University of Munich (TUM) and Helmholtz Center Munich, Munich, Germany, in the lab of: Prof. Dr. Carsten Schmidt-Weber and PD Dr. Adam Chaker
- 2013 – 2013 Internship in Nonclinical Safety, Hoffmann-La Roche, Basel, Switzerland, Group Dr. Bertinetti-Lapatki
- 2012 – 2015 Clinical study administrator of clinical allergen-specific immunotherapy trials, Department of Otorhinolaryngology and Head and Neck Surgery, Medical School, Technical University of Munich, Munich, Germany, Supervisor: PD Dr. Adam Chaker
- 2008 – 2008 Study program-related internship in Molecular Pathology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA, Department of Pathology, Group Prof. Dr. Jon C. Aster
- 2008 – 2008 Internship in Immune Tolerance, EpiVax Inc., Providence, RI, USA, Internship, Supervisor: Prof. Dr. Anne S. De Groot
- 2006 – 2008 Student researcher in Immunology, Department Haematology & Oncology, Medical Center, Albert-Ludwigs-University, Freiburg, Germany, Group Prof. Dr. Hendrik Veelken

Awards and Honors

- 2023 Oral presentation Prize, EAACI Congress 2023, Hamburg, Germany, awarded by the EAACI Congress Committee
- 2023 Poster Prize, DZL Annual Meeting, Disease Area Asthma & Allergy, Munich, Germany
- 2023 EAACI Congress Travel Grant to attend EAACI Congress 2023, Hamburg, Germany, awarded by the EAACI Congress Committee
- 2022 EAACI Congress Travel Grant to attend EAACI Congress 2022 in Prague, Czech Republic, awarded by the EAACI Congress Committee
- 2009 Young Investigator Award, International Forum on Immunoglobulin Research, Fort Lauderdale, FL, USA, awarded by the IFIR Scientific Advisory Board

Five most important Publications

Jakwerth CA, Weckmann M, Illi S, Charles H, Zissler UM, Oelsner M, Guerth F, Omony J, Nemani SSP, Grychtol R, Dittrich AM, Skevaki C, Foth S, Weber S, Alejandre Alcazar MA, van Koningsbruggen-Rietschel S, Brock R, Blau S, Hansen G, Bahmer T, Rabe KF, Brinkmann F, Kopp MV, Chaker AM, Schaub B, von Mutius E, Schmidt-Weber CB; ALLIANCE Study Group as part of the German Center for Lung Research (DZL). 17q21 Variants Disturb Mucosal Host Defense in Childhood Asthma. *Am J Respir Crit Care Med*. 2023 Dec 8. doi: 10.1164/rccm.202305-0934OC. Epub ahead of print. PMID: 38064241. IF 24.7

Wang SH, Zissler UM, Buettner M, Heine S, Heldner A, Kotz S, Pechtold L, Kau J, Plaschke M, Ullmann JT, Guerth F, Oelsner M, Alessandrini F, Blank S, Chaker AM, Schmidt-Weber CB, Jakwerth CA. An exhausted phenotype of TH 2 cells is primed by allergen exposure, but not reinforced by allergen-specific immunotherapy. *Allergy*. 2021 Sep;76(9):2827-2839; IF 14.7

Erb A, Zissler UM, Oelsner M, Chaker AM, Schmidt-Weber CB, Jakwerth CA. Genome-Wide Gene Expression Analysis Reveals Unique Genes Signatures of Epithelial Reorganization in Primary Airway Epithelium Induced by Type-I, -II and -III Interferons. *Biosensors (Basel)*. 2022 Oct 26;12(11):929; IF 5.4

Jakwerth CA, Grass V, Erb A, Pichlmair A, Boonen G, Butterweck V, Schmidt-Weber CB. Inhibition of SARS-CoV-2 infection and replication by *Petasites hybridus* CO₂-extract (Ze 339). *Biomed Pharmacother*. 2024 Jan;170:115959. doi: 10.1016/j.biopha.2023.115959. Epub 2023 Dec 7. PMID: 38061134; IF 7.5

Zissler UM*, Jakwerth CA*, Guerth FM, Pechtold L, Aguilar-Pimentel JA, Dietz K, Suttner K, Piontek G, Haller B, Hajdu Z, Schiemann M, Schmidt-Weber CB, Chaker AM. Early IL-10 producing B-cells and coinciding Th/Tr17 shifts during three year grass-pollen AIT. *EBioMedicine*. 2018 Oct;36:475-488. *These authors contributed equally to this publication; IF 6.7