

Curriculum vitae

Dr. rer. nat. Barbara Hammer, BSc, MSc

Current position: Postdoctoral fellow

DZL Laboratory for Experimental Microbiome Research

Priority Research Area Chronic Lung Diseases

Research Center Borstel, Leibniz Lung Center, Borstel, Germany

University Education

2009 – 2013 Bachelor's degree in Biology (Molecular Biology/Genetics)

University of Salzburg, Salzburg, Austria

2013 – 2016 Master's degree in Biology (Molecular Biology/Genetics/Immunology)

University of Salzburg, Salzburg, Austria

2016 – 2020 Doctorate in Natural Science

Christian-Albrechts-Universität zu Kiel, Kiel, Germany

Scientific Career

2016 – 2020 Predoctoral fellow, Early Life Origins of Chronic Lung Diseases, Priority Research Area Asthma and Allergy, Research Center Borstel, Leibniz Lung Center, Borstel, Germany

2020 – 2022 Postdoctoral fellow, Division of Pulmonology, Department of Medicine II, Medical University of Vienna, Vienna, Austria

2022 – to date Postdoctoral fellow, DZL Laboratory for Experimental Microbiome Research, Priority Research Area Chronic Lung Diseases, Research Center Borstel, Leibniz Lung Center, Borstel, Germany

Research publications

2018 Hammer B, Wagner C, Divac Rankov A, et al. In utero exposure to cigarette smoke and effects across generations: a conference of animals on asthma. Clin Exp Allergy. 2018;48:1378-1390. doi: <https://doi.org/10.1111/cea.13283>

2020 Danov O, Wolff M, Bartel S, Böhlen S, Obernolte H, Wronski S, Jonigk D, Hammer B, Kovacevic D, Reuter S, Krauss-Etschmann S and Sewald K (2020) Cigarette Smoke Affects Dendritic Cell Populations, Epithelial Barrier Function, and the Immune

Response to Viral Infection With H1N1. *Front. Med.* 7:571003. doi:
10.3389/fmed.2020.571003

- 2021 Hammer, B., Kadalayil, L., Boateng, E. et al. Preconceptional smoking alters spermatozoal miRNAs of murine fathers and affects offspring's body weight. *Int J Obes* 45, 1623–1627 (2021). <https://doi.org/10.1038/s41366-021-00798-2>
- 2021 López-Cervantes JP, Lønnebotn M, Jogi NO, Calciano L, Kuiper IN, Darby MG, Dharmage SC, Gómez-Real F, Hammer B, Bertelsen RJ, Johannessen A, Würtz AML, Mørkve Knudsen T, Koplín J, Pape K, Skulstad SM, Timm S, Tjalvin G, Krauss-Etschmann S, Accordini S, Schlünssen V, Kirkeleit J, Svanes C. The Exposome Approach in Allergies and Lung Diseases: Is It Time to Define a Preconception Exposome? *Int J Environ Res Public Health.* 2021 Dec 1;18(23):12684. doi: 10.3390/ijerph182312684.

Certificates

- 2016 Laboratory Animals (mouse and rat)
- 2017 FELASA B
(Federation for Laboratory Animal Science Associations Category B)
- 2019 Flow Cytometry LSRII – Level 1

Awards

- 2018 Poster Award, 2nd International Symposium on Allergy meets Infection, Luebeck, Germany
- 2019 Poster Prize (Poster Discussion Session), European Academy of Allergy and Clinical Immunology (EAACI) Congress 2019, Lisbon, Portugal
- 2021 Doctorate Award 2020 Kreis Segeberg, Germany