

Dr. Marius Vital

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Education

- 2021 **Habilitation** in Microbiology, Hannover Medical School, Hannover, Germany
- 2010 **Doctoral degree** in Environmental Sciences, Swiss Federal Institute of Technology (ETH) Zürich, Zürich, Switzerland.
- 2006 **Master degree** in Microbiology/Genetics (Subjects: molecular microbiology and immunology) at the University of Vienna, Vienna, Austria.
- 2002 **Bachelor degree** in Biology, University of Graz, Graz, Austria.

Professional Career

- Since Apr 2019 **Research Group Leader** at the Institute for Microbiology and Hospital Epidemiology, Hannover Medical School, Hannover, Germany
- The lab works in close collaboration with clinicians and applies “Next- and Third-Generation” Sequencing techniques as well as defined in vitro cultivation setups to investigate the role of human microbiota in health and disease. Particular focus is given on specific functions of gut microbiota. Both the production of health promoting metabolites, such as short chain fatty acids, and harmful microbe-derived products, for instance trimethylamine, are investigated in detail.*
- Furthermore, the lab studies (eco)physiological consequences of antibiotic resistance in gram negatives, particularly tackling the question how resistance acquisition affects growth and survival of those bacteria in the gut environment.*
- 2014-2019 **Postdoctoral Research Associate** with Prof. Dietmar Pieper, Helmholtz Centre for Infection Research, Braunschweig, Germany.
- 2011-2014 **Postdoctoral Research Associate** with Prof. James Tiedje, Michigan State University, East Lansing, USA.
- 2006-2010 **Doctoral thesis** with Prof. Thomas Egli, EAWAG (ETH Zürich), Dübendorf, Switzerland.