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Location-specific regulation of intestinal lymphocyte frequency and function during homeostasis and intestinal inflammation

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CV

From 2004-2010 Justin Jacobse performed his high school studies at the Coornhert Gymnasium in Gouda. Beyond graduating in all four profiles and nearly all subjects, he participated in two projects organized by Leiden University: in 2007 he joined the Leiden Advanced Pre-university Program for TOP students on Classical Languages; and from 2008-2010 he participated in the Pre-University College - both at Leiden University.

In 2010 he started medical school at the same university, and soon after also joined the Honours College with specialization into Biomedical Sciences - which gave access to the MSc in Biomedical Sciences at Leiden University. As part of his studies and out of his broad interests, he wrote two MSc theses: one with Dr. Lisa Genzel on sleep- and novelty-related memory consolidation, for research performed at the University of Edinburgh (UK) in the lab of Prof. Dr. Richard Morris (for Medicine). Subsequently he researched small intestinal-specific food-specific immunoglobulin production in the context of IgE-mediated food allergy in the lab of Dr. Edda Fiebiger at the Boston Children's Hospital and Harvard Medical School (USA) (for Biomedical Sciences). He received a generous twelve awards to support his year abroad and his Master theses received a prize from the Hippocrates Studiefonds and the Leiden University Medical Center (LUMC) Alumni foundation (LAG).

Then, after returning to the Netherlands and completing clinical rotations Justin graduated from medical school in Leiden by doing his senior internship in internal medicine in the Bronovo in The Hague followed by an elective in Pediatric Stem Cell Transplantation at the LUMC. In 2017 he became a licensed physician (in the Netherlands) and simultaneously obtained his MSc in Biomedical Sciences. In 2018 he worked as a research-physician with Prof. Dr. Rebecca ten Cate at the department of Pediatrics at the LUMC, and was also a guest researcher at the Centre for Human Drug Research and the Leiden Centre for Academic Drug Research. There he studied minimally invasive administration of monoclonal antibodies and also became interested in immunogenicity of these therapeutics. Finally, he acquired funding to do his PhD with Dr. Jeremy Goettel at Vanderbilt University in Nashville, Tennessee (USA) with continuing guidance from Prof. Dr. Janneke Samsom (Erasmus MC), and Prof. Dr. Edmond Rings (LUMC, Erasmus MC). He started this research in 2019 and most of this work focused on immune cells and in particular regulatory T cells, and their function in maintaining intestinal immune homeostasis. In 2021 he joined Vanderbilt University Medical Center and while continuing to work with Dr. Jeremy Goettel also joined the lab of Dr. Yash Choksi, where his work focused around the upper gastrointestinal tract.

Justin's highly-collaborative work is mostly centered around fundamental and translational immunological research and is published in a variety of peer-reviewed journals. He also together with Dr. Goettel and Dr. Georgiev's lab conceptualized a - now patented - method to screen patients for anti-drug antibodies and use patient-based data to improve current monoclonal antibody therapeutics. He has presented his scientific research at various local, national and international conferences with talks and posters. Finally, during his studies Justin has shown an affinity for teaching. From 2012-2018 he was a guide in the anatomical museum of the LUMC. From 2017-2023 he supervised a total of over 100 students from varying levels and disciplines during their thesis writing at a private thesis company, and in Nashville he taught Biology to students at a local middle school. During his PhD studies he mentored several undergraduate and medical students.