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Universiteit Leiden



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Author: Veneman, Wouter Jurjen

Title: Developing systems for high-throughput screening of infectious diseases using zebrafish

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List of Publications

- Carvalho R, de Sonnevile J, Stockhammer OW, Savage ND, Veneman WJ, Ottenhoff TH, Dirks RP, Meijer AH, Spaink HP: A high-throughput screen for tuberculosis progression. PLoS One, 2011
- Veneman WJ, Stockhammer OW, de Boer L, Zaat SA, Meijer AH, Spaink HP: A zebrafish high-throughput screening system used for *Staphylococcus epidermidis* infection marker discovery. BMC Genomics, 2013 (chapter 4)
- Spaink HP, Cui C, Wiweger MI, Jansen HJ, Veneman WJ, Marin-Juez R, de Sonnevile J, Ordas A, Torraca V, van der Ent W, Leenders WP, Meijer AH, Snaar-Jagalska BE, Dirks RP: Robotic injection of zebrafish embryos for high-throughput screening in disease models. Methods, 2013 (chapter 2)
- Kanwal Z, Wiegertjes GF, Veneman WJ, Meijer AH, Spaink HP: Comparative studies of Toll-like receptor signalling using zebrafish. Developmental and Comparative Immunology, 2014
- Veneman WJ, Marín-Juez R, de Sonnevile J, Ordas A, Jong-Raadsen S, Meijer AH, Spaink HP: Establishment and optimization of a high-throughput setup to study *Staphylococcus epidermidis* and *Mycobacterium marinum* infection as a model for drug discovery. Journal of Visualized Experiments, 2014 (chapter 3)
- Veneman WJ, de Sonnevile J, van der Kolk KJ, Ordas A, Al-Ars Z, Meijer AH, Spaink HP: Analysis of RNAseq datasets from a comparative infectious disease zebrafish model using GeneTiles bioinformatics. Immunogenetics, 2014 (chapter 5)
- Veneman WJ, Vijver MG, Meijer AH, Spaink HP: Distribution of micro and nano range sized biomaterials after yolk injection into zebrafish larvae. Manuscript in preparation (chapter 6)
- van der Ent W, Veneman WJ, Groenewoud A, Chen L, Tulotta C, Hogendoorn PCW, Spaink HP, Snaar-Jagalska BE: Automation and manipulations for cancer discovery. Submitted for publication
- Wiweger MI, Veneman WJ, Dirks RP, Spaink HP: “No big fish” - zebrafish as model organism for studies on skeletal tuberculosis. Manuscript in preparation

Curriculum Vitae

Wouter Jurjen Veneman was born on February 11th 1987 in Almelo, the Netherlands. He finished high school at the S.G. St. Canisius in Almelo. In 2003 he started the Medical Microbiology laboratory study at the ROC Oost Nederland in Hengelo, the Netherlands, during which he performed an internship at the Medical Microbiology department of the Medical Center Haaglanden hospital in The Hague under the supervision of Mr. Johan Mutsears and Drs. Casper Jansen. In 2007 he started his bachelor of applied science in Biology and Medical laboratory research in Leiden, the Netherlands during which he performed two internships. One at the pathology department of the Leiden University Medical Center under the supervision of Dr. Ronald van Eijk and Prof. Dr. Hans Morreau and another shared internship between the Medical Microbiology department of the Academic Medical Center Amsterdam, the Netherlands and the Molecular Cell biology department of the Institute of Biology of the University of Leiden, the Netherlands under the supervision of Dr. Bas Zaat and Prof. Dr. Herman Spaink. Directly after he started working at ZF-screens B.V. in Leiden, the Netherlands together with Dr. Ralph Carvalho and Dr. Oliver Stockhammer. In September 2010 he started his PhD research in the group of Prof. Dr. Herman Spaink and Dr. Annemarie Meijer. During his PhD he focused on the development of a biomaterial-associated infection model using zebrafish larvae. He established a model to study the pathogenesis of *Staphylococcus epidermidis* in zebrafish larvae and the molecular host response towards this kind of infections. In 2014 while finishing his PhD project, he also started working for the Institute of Environmental Sciences (CML) of the University of Leiden, the Netherlands in the ecotoxicology group of Dr. Martina Vijver to develop and optimize a fast screening method of nanoparticles toxicity using zebrafish larvae.