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Key innate immune components controlling intracellular infection

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List of publications

- Zakrzewska A, Cui C, Stockhammer OW, **Benard EL**, Spaink HP, Meijer AH. Macrophage-specific gene functions in Spi1-directed innate immunity. *Blood*, 2010.
- Cui C, **Benard EL**, Kanwal Z, Stockhammer OW, van der Vaart M, Zakrzewska A, Spaink HP, Meijer AH. Infectious disease modelling and innate immune function in zebrafish embryos. *Methods in Cell Biology*, 2011.
- Benard EL**, van der Sar AM, Ellett F, Lieschke GJ, Spaink HP, Meijer AH. Infection of zebrafish embryos with intracellular bacterial pathogens. *Journal of Visualized Experiments*, 2012.
- Benard EL**, Racz PI, Rougeot J, Nezhinsky AE, Verbeek FJ, Spaink HP, Meijer AH. The macrophage-expressed perforins Mpeg1 and Mpeg1.2 have specialised functions in controlling bacterial infections in zebrafish. *Journal of Innate Immunity*, 2014. In press.
- Benard EL**, Roobol SJ, Spaink HP, Meijer AH. Phagocytosis of mycobacteria by zebrafish macrophages is dependent on the scavenger receptor Marco, a key control factor of pro-inflammatory signalling. *Developmental and comparative Immunology*, 2014. In press.
- Fink IR, **Benard EL**, Hermesen T, Meijer AH, Forlenza M, Wiegertjes GF. Molecular and functional characterization of the scavenger receptor CD36 in zebrafish and common carp. *Molecular Immunology*. Manuscript under revision.
- Ellett F, Pase L, **Benard EL**, Azabdaftari D, Andrianopoulos A, Lieschke GJ. An *in vivo* *P. marneffei* infection model reveals neutrophil-to-macrophage pathogen shuttling between viable leukocytes during infection establishment. Manuscript under revision.
- Benard EL**, Rougeot J, Racz PI, Spaink HP, Meijer AH. Time-resolved transcriptome profiling of the zebrafish host innate immune response to mycobacterium infection. Manuscript in preparation.

Curriculum vitae

Erica Benard was born on March 5th, 1986 in Westville, South Africa. After moving to Dordrecht, The Netherlands, she completed her high school education at the Insula College Dordrecht. In 2004 she started studying for her BSc in Biology at Leiden University, during which she performed an internship at the Microbiology department (under supervision of Ing. Mark Arentshorst and Dr. Arthur F.J. Ram). During her MSc studies at the same university, she completed two internships, one at the Leiden University at the department of Molecular Cell Biology (under supervision of Dr. Annemarie H. Meijer), and one at the Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia at the Cancer and Haematology Department (under supervision of Dr. Felix Ellett and Prof. Graham J. Lieschke). Shortly after obtaining her MSc degree in 2009 (*cum laude*) she started as a PhD-student in the infectious disease group of Dr. Annemarie H. Meijer at the Molecular Cell Biology department headed by Prof. Dr. Herman P. Spaink. During her PhD-training she studied the innate immune response against intracellular bacterial pathogens, using the zebrafish embryo as a model organism, which resulted in the work before you. In July 2014 she started her postdoctoral research in the laboratory of Prof. Dr. Matthias Hammerschmidt at the Institute for Developmental Biology, University of Cologne, Germany.