

Cover Page



Universiteit Leiden



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Author: Kanwal, Zakia

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List of publications

Cui, C., E. L. Benard, **Z. Kanwal**, O. W. Stockhammer, M. van der Vaart, A. Zakrzewska, H. P. Spaink, and A. H. Meijer. 'Infectious Disease Modeling and Innate Immune Function in Zebrafish Embryos', *Methods in cell biology* Vol. 105, 273-308, 2011.

Kanwal, Z., A. Zakrzewska, J. den Hertog, H. P. Spaink, J.M. Schaaf and A. H. Meijer. ' Deficiency in hematopoietic phosphatase Ptpn6/Shp1 hyperactivates the innate immune system and impairs control of bacterial infections in zebrafish embryos', Under revision in *Journal of Immunology*.

Kanwal, Z., Julien J. Y. Rougeot, A. Zakrzewska, Hans J. Jansen H. P. Spaink, and A. H. Meijer. ' RNA-Seq profiling of leukocyte populations and mycobacterium-infected cells from wild type and *ptpn6*-deficient zebrafish larvae'. In preparation.

Kanwal, Z., A. Ordas, V. Lindenberg, H. P. Spaink, and A. H. Meijer. 'MicroRNA-146 function in the innate immune response of zebrafish embryos to bacterial infection'. In preparation.

Curriculum vitae

Zakia Kanwal was born on 19 June 1984 in Sialkot, Pakistan. She completed her secondary school education in 2002 at the Government College for Women in Daska and obtained her Bachelor of Science in 2004 at the Government College for Women in Sialkot. During her Bachelor education she studied Zoology, Chemistry, and Botany as majors. In 2006 she obtained her Master degree in Zoology at the University of Agriculture, Faisalabad, Pakistan. For her master thesis she performed a research project on feeding and roosting habits of rose-ringed parakeet and starling, under the supervision of Dr. H.A. Khan. In 2007 she finished the course program of the M.Phil in Zoology at the same university and obtained a scholarship from the Higher Education Commission of Pakistan to perform a PhD study at Leiden University, The Netherlands. In 2008 she obtained a Pre-PhD diploma in Biology from Leiden University, with a research training internship in the Molecular Cell Biology Group of the Institute of Biology, under the supervision of Dr. A.H. Meijer. During this internship she worked on transient expression of a fluorescent reporter construct for myeloid cells in zebrafish embryos. Subsequently, she started her PhD project in Nov. 2008 in the same group. Her PhD research, resulting in this thesis, was focused on regulatory mechanisms of innate immune signaling, employing the zebrafish embryo model.

