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Chemokine signaling mechanisms underlying inflammation and infection control: Insights from the zebrafish model

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Curriculum vitae

Frida Sommer was born in Mexico City, Mexico on May 13, 1987. After graduating from high school at the Alexander von Humboldt School, she started a Bachelor's program in general Biology at the Science Faculty of the National Autonomous University of Mexico (UNAM). She graduated after a two-year internship focused on HIV molecular epidemiology and HLA-associated HIV evolution in the Mesoamerican Region at the Infectious Diseases Research Centre (CIENI) of the National Respiratory Diseases Institute (INER) under the supervision of Dr. Santiago Avila Rios in Mexico City. After completion of her BSc degree, Frida was awarded a personal grant from the National Council of Science and Technology (CONACyT) to pursue a Master's degree. She was admitted to the MSc in Archaeological Sciences program at Durham University, UK. Her graduation project focused on rebuilding the phylogeny of domestic animals in Pakistan to infer human activity in the past and was supervised by Prof. Greger Larson. In 2015 she was awarded another CONACyT personal grant to join Prof.dr. Annemarie H. Meijer's lab at Leiden University to do a Ph.D. The work done during her time at Leiden University is presented in this thesis.

List of Publications

F. Sommer, A. H. Meijer and V. Torraca, “Chemokine receptors and phagocyte biology in zebrafish,” *Frontiers in Immunology*, vol. 11, p. 325, 2020

F. Sommer, V. Torraca, S. M. Kamel, A. Lombardi and A. H. Meijer, “Frontline Science: Antagonism between regular and atypical Cxcr3 receptors regulates macrophage migration during infection and injury in zebrafish,” *Journal of leukocyte biology*, vol. 107, p.185, 2019

J. Rougeot, V. Torraca, Zakrzewska, Z. Kanwal, H. Jansen, **F. Sommer**, H. Spaink and A.H. Meijer, “RNAseq profiling of leukocyte populations in zebrafish larvae reveals a *cxcl11* chemokine gene as a marker of macrophage polarization during mycobacterial infection,” *Frontiers in Immunology*, vol. 10, p. 832, 2019.

F. Sommer, V. Torraca, E. in’t Veld, J. Willemse, and A. H. Meijer, “Disruption of Cxcr3 chemotactic signaling alters lysosomal function and renders macrophages more microbicidal” (submitted).

F. Sommer, N. V. Ortiz Zacarias, L. H. Heitman, and A. H. Meijer, “Inhibition of macrophage migration in zebrafish demonstrates in vivo efficacy of human CCR2 inhibitors”, (manuscript in preparation).

