The innate immune response against mycobacterial infection : analysis by a combination of light and electron microscopy

Hosseini, R.

Curriculum vitae

Rohola Hosseini was born on August 1st, 1983 in Qandahar, Afghanistan. After graduating from highschool in 2002 (Carolus Clusius College, Zwolle), he started a year later the study Life Science and Technology at TU Delft and Leiden University. During his bachelor and master education he became very fascinated by different imaging techniques that allow studying the intracellular cell dynamics and protein structures. He finalized his study, specializing in structural biology, with an internship in the group of Biophysical Structural Chemistry in Leiden. During his internship he developed methods for protein nanocrystallization that are suitable for electron diffraction. After completing his Master's program in October 2010, he joined the Institute of Biology (University of Leiden) as a PhD student. In his research project, he focused on the development of methods for the visualization of host-pathogen interactions in zebrafish larvae that allowed using both light and electron microscopy. Subsequently, he applied these methods to study intracellular and intercellular processes during the course of a mycobacterial infection. He is currently working as a postdoctoral fellow in the Institute of Biology on solvent tolerance in Pseudomonas species.

List of publications

Rohola Hosseini, Gerda E. M. Lamers, Zlatan Hodzic, Annemarie H. Meijer, Marcel J. M. Schaaf and Herman P. Spaink, Correlative Light and Electron Microscopy Imaging of Autophagy in a Zebrafish Infection Model, Autophagy 2014, Volume 11, Issue 10, 130-143

Michiel van der Vaart, Cornelis J. Korbee, Gerda E.M. Lamers, Anouk C. Tengeler, Rohola Hosseini, Mariëlle C. Haks, Tom H.M. Ottenhoff, Herman P. Spaink and Annemarie H. Meijer, The DNA Damage-Regulated Autophagy Modulator DRAM1 Links Mycobacterial Recognition via TLR-MYD88 to Autophagic Defense, Cell Host & Microbe 2014, Volume 15, Issue 6 , 753 – 767

Igor Nederlof, Rohola Hosseini, Dilyana Georgieva, Jinghui Luo, Dianfan Li, and Jan Pieter Abrahams, A Straightforward and Robust Method for Introducing Human Hair as a Nucleant into High Throughput Crystallization Trials, Crystal Growth & Design 2011, Volume 11, Issue 4, 1170-1176