

20.10.2015

MASTER THESIS / PRO GRADU PROJECT:

Host cell receptor tyrosine kinase signaling in bacterial infection

A master thesis / pro gradu project is available in the research group of Arto Pulliainen, at the Institute of Biomedicine, University of Turku. The project is run in collaboration with the research group of professor Klaus Elenius, University of Turku.

Receptor tyrosine kinases (RTKs) coordinate a wide variety of biological processes. However, their role in host cell responses to bacterial pathogen stimuli has just recently been recognized. The successful candidate performs systems level studies in order to screen for RTK activation and proteolytic processing upon infecting cells with clinically relevant bacterial pathogens. The *in vitro* wet-lab approaches are supplemented with *in silico* analysis of transcriptomic databases. The project contributes to the development of novel RTK-targeting approaches for the prevention and treatment of infectious diseases.

The project is highly interdisciplinary, by combining the theoretical and methodological knowledge of laboratories working on bacterial pathogenesis and cancer. The project is currently streamlined as a master thesis / pro gradu project, but also provides an excellent opportunity to pursue further postgraduate research aiming for a PhD thesis.

Please send your application and CV by e-mail to Arto Pulliainen (arto.pulliainen@utu.fi) 13.12.2015 at the latest. The start time is negotiable, but January 2016 is preferable.

Further information:

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