

# Postdoc position in Mucosal Immunology - Karolinska Institutet

"Using zebrafish to study the impact of gene-environment interactions in inflammatory bowel diseases"

Apply here:

<https://ki.mynetworkglobal.com/en/what/job/jobID:145599/>

Deadline: 2017 May 14

## Description:

The environment plays a critical role triggering disease in genetically susceptible individuals. The goal of this project is to generate *in vivo* models to study the interaction between gene function and environmental factors during the initiation/resolution of intestinal inflammation. We have generated CRISPR mutant zebrafish lines targeting IBD-risk genes with unknown function. The successful candidate will characterize these mutants and validate her/his finding in mouse models and human organoids candidate will also generate IBD reporters to visualize immunological processes associated to IBD in the context of genetic susceptibility and environmental triggers.

## Entry requirements:

Our lab has an opening for a highly creative and motivated postdoctoral scientist with an interest in mucosal immunology. We look for a candidate with proficiency and documented laboratory research experience particularly in molecular biology, *in vivo* imaging and genetic manipulation in zebrafish. The candidate is expected to work with both zebrafish and mouse models of intestinal inflammation. Experience in bioinformatics and RNA-seq analysis would be an advantage. The position will require independent work at the laboratory as well as extensive collaboration with other experimental groups. Fluency in both oral and written English is necessary. Documented ability to analyze and present results orally and written is important.

## Type of scholarship

A scholarship for carrying out postdoctoral research can be granted for a maximum of two years within a four year period following the receipt of a doctoral degree or equivalent. This educational scholarship is tax-exempt. The amount is set for twelve months at a time and is paid out on a monthly basis. In exceptional cases, shorter periods may be acceptable.

**Publications:** Villablanca EJ et al., JLB, 2008; Villablanca EJ et al., J. Immunol, 2008; Peloquin JM., et al., Annu. Rev. Immunol, 2016; Villablanca EJ., et al., Gut, 2014; Gagliani N., et al., Cell, 2014; Huber S., et al Nature, 2012; Villablanca EJ., et al., Gastroenterology, 2011; Villablanca EJ., et al., Nat. Med, 2010

More information about the Villablanca lab:

<http://www.cmm.ki.se/en/group/eduardo-villablanca-group/>

<http://ejvillablanca.wixsite.com/villablancalab>