



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



Postdoctoral Research Fellowship in Immunology

A postdoctoral Research Fellowship is available In Prof Kingston Mills' research group at Trinity College Dublin to work on 'Induction and regulation of immune responses in the nose - informing the design of an effective nasal vaccine against *Bordetella pertussis*'

Studies from the Mills lab and others have suggested that vaccination by the nasal route using appropriate mucosal adjuvants has the potential to induce local immunity and immunological memory in the respiratory tract mediated by tissue resident memory T cells (T_{RM} cells) and memory B cells. Our hypothesis is that there is unique composition and activation status of immune cells in the nasal tissue, making it an ideal inductive site for the generation of sterilizing immunity and immunological memory, but that appropriate signals are required to overcome immunological tolerance in the nose. A full understanding of the immune response in the nasal tissue will help to inform the design of more effective vaccines against *Bordetella pertussis* and other respiratory pathogens.

This post is funded by a Science Foundation Ireland (SFI) Frontiers for the Future Award to Prof Kingston Mills.

The Immune Regulation Research Group is located in School of Biochemistry and Immunology, The Trinity Biomedical Sciences Institute, Trinity College Dublin. Further details at <https://www.tcd.ie/Biochemistry/research/mills/>

Candidates should have a PhD in Immunology or a related discipline and prior research experience in cellular immunology (essential) and preferably experience in animal model and/or infectious diseases.

Fixed Term Contract of 36 months.

Appointment will be made on the SFI Postdoctoral Researcher Pay Scale level 2A or 2B, at a point in line with qualifications & experience, and according to Government Pay Policy [€42,782 to €54,966 per annum], appointment will be made no higher than point 2 on Level 2B

Applications by email to include CV, letter of application and the names, phone numbers and email addresses of 2-3 Referees to: kingston.mills@tcd.ie

Closing date: 15th March 2024.