

**Centre for Infectious Disease Research  
Indian Institute of Science, Bangalore**

**Four Senior Postdoctoral Research Associate Positions**

**Start date**

January 2014–March 2014. 2–3 years, positions available.

**Funding**

- (i) DBT (India) Funded Centre of Excellence Grant and
- (ii) NIH (USA) and DBT (India) co-funded Human Immune Profiling Consortium Grant.

**Location**

Centre of Infectious Disease Research, Indian Institute of Science (IISc) Bangalore, India

Four senior postdoctoral positions are available to be part of an exciting new group that is being established at the IISc to study the cellular and molecular mechanisms of host/pathogen interactions in HIV and MTb co-infection.

HIV infection is considered to predispose the host to active TB generally by impairing the hosts' immune system by killing a sub-population of white blood cells, called CD4 T lymphocytes. These cells are critical for a healthy immune system and specifically protect healthy individuals carrying the tubercle bacillus from progressing to active TB disease. Understanding what renders these immune cells vulnerable to HIV infection is poorly understood and is a critical roadblock that needs to be overcome in developing better vaccine or immune-based strategies to control and monitor TB in HIV-infected subjects. This proposal is designed to address this key issue. The last few years has seen the development of affordable systems biology technologies, including RNA-sequencing, that now enable the heterogeneity of the immune response to pathogens to be de-convoluted and precisely defined. This proposal sets out to use these technologies to probe in-depth key immune cell types of importance in immunity to HIV and TB infections.

**Qualifications**

We are looking for candidates with a minimum of 3 years postdoctoral experience with a good academic track record of primary research publications in reputed journals in the broad areas of molecular immunology, virology and molecular biology. Candidates with one or more of the following expertise have an advantage: immune phenotyping, multiparameter flow cytometry, deep sequencing, T cell repertoire analysis, HIV and/or MTb genome heterogeneity analysis. Candidates should have excellent communication and interpersonal skills to work within a multi-disciplinary international team comprising leading scientists in India, UK and USA. Candidates with a strong research track record will be given the opportunity to develop specific and chosen sub-projects of interest. These posts are ideally suited to candidates who wish to progress to Group Leaders in the scientific field. Where needed, appropriate training will be given.

**Salary**

Is fixed based on the prestigious DBT Centre of Excellence award to Prof. Annapurna Vyakarnam. Salary offers will be fixed based on experience and qualifications in keeping with DBT rules. Maximum of Rs 50,000 per month, consolidated.

**Applications**

All interested applicants are advised to write to **Prof. A. Vyakarnam** at [annapurnavyakarnam@gmail.com](mailto:annapurnavyakarnam@gmail.com) with a comprehensive CV and a one-page summary of their past research findings and future interest. All applications will be vetted and selections based on an interview and seminar.

**Closing date**

14 February 2014