A postdoctoral position is available to apply emerging technologies for the identification and characterization of disease-associated antigen-specific human T lymphocytes. With access to unique clinical samples and a broad range of analysis techniques, we are studying the role of T cells in immune responses to cancer and/or infectious disease by looking for correlates/predictors of disease status/progression. As part of these studies, we are focusing on the use and further development of single-cell mass spectrometry-based (mass cytometry or “Cytometry by Time-Of-flight” – CyTOF, Newell et al., Immunity 2012, Becher et al., Nat. Immunol. 2014, etc) analysis of human antigen-specific T cells identified using highly multiplexed heavy-metal conjugated peptide-MHC tetramers (See Newell et al., Nat. Methods 2009, Newell et al., Nat. Biotechnology 2013).

**Job Description:**

- Experimental design, setup and coordination with clinical collaborators
- Preparation of proteins and reagents
- Human blood/tissue sample handling and processing
- Recombinant protein expression and purification
- Operation of the CyTOF machine
- Follow up experiments using a range of other molecular or immunological assays
- Data analysis and interpretation

**Requirements:**

- A doctoral degree in immunology, biochemistry, life sciences or related fields
- Experience with flow cytometry
- An interest in T cell immunology
- Computer programming or bioinformatics skills would be very advantageous
- An ability to learn new techniques and troubleshoot assays
- Good team player, independent, self-driven with good interpersonal skills

Interested applicants should send a copy of their resume with publication list, one page of summary of research experience and interests, and contact information of three referees who could be contacted for letters of reference to Evan_Newell@immunol.a-star.edu.sg

The above eligibility criteria are not exhaustive. A*STAR may include additional selection criteria based on its prevailing recruitment policies. These policies may be amended from time to time without notice.

We regret that only shortlisted candidates will be notified.