

## **Research Fellow/Senior Research Fellow (Code: OR/CSCB/AM)**

### **Job Description**

The Duke-NUS Laboratory for Translational and Molecular Imaging (LTMI), Duke-NUS Medical School, is recruiting a **Research Fellow/Senior Research Fellow** to lead state-of-the-art small animal imaging studies in Viral Infectious Disease. LTMI aims to develop local infrastructure and deep capabilities in the development of molecular imaging technologies for guiding the advancement and translation of new imaging biomarkers to guide novel therapeutics in viral infectious disease.

The successful candidate will lead pre-clinical imaging efforts to validate novel imaging probes that target potential biomarkers of viral infection and host response. He/She will be responsible for the strategic planning, execution and communication of research. Candidates with strong records of scientific accomplishment in radiopharmaceutical sciences, immunology or related disciplines are encouraged to apply.

- Lead mouse model development and characterisation of viral disease.
- Perform *in vivo* characterisation of imaging probe specificity and sensitivity with PET/CT, SPECT/CT and/or optical imaging in combination with different treatment regimes.
- Monitor immune response to anti-viral, and vaccines with longitudinal imaging, supported with pathology (IHC/IF), and cellular assessment (flow cytometry).
- Ensure regulatory compliance of research, including legal and ethical requirements.
- Ensure timely reporting and presentation of study results to the team, and making appropriate decisions on data obtained from imaging studies.
- Write and review research papers, and present at local and international conferences.
- Provide guidance and mentorship to junior researchers and/or graduate students.
- Demonstrate effective organization/project management abilities to efficiently manage time and work activities.

### **Job Requirements**

- PhD in Virology/Immunology/Radiopharmaceutical sciences or related disciplines.
- Experience in multimodality imaging and image analysis (including PET, SPECT, CT, fluorescence, and/or optical imaging) within the infectious diseases and immunology domain.
- Background in virology, molecular biology, cell biology and oncology desirable.
- Possesses experience in mouse studies (injection, anatomy, necropsy, pathology) required.
- Proven track record of academic publications, including writing/drafting first author papers.
- Self-motivated individual, enthusiastic to take initiatives, as well as able to work independently and collaboratively in a team.
- Demonstrate excellent communication, technical independence, analytical and problem-solving skills.

*We regret that only shortlisted candidates will be notified.*