

Research Fellow (Cell Biology, Sub-cellular imaging)
Nanyang Technological University

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Posted Oct. 15, 2024, set to expire May 6, 2025

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| Job Title | Research Fellow (Cell Biology, Sub-cellular imaging) |
| Department | School of Biological Sciences |
| Institution | Nanyang Technological University Singapore, , Singapore |
| Date Posted | Oct. 15, 2024 |
| Application Deadline | Open untill filled |
| Position Start Date | Available Immediately |
| Job Categories | Research Scientist/Associate |
| Academic Field(s) | Biology - Cell Biology |
| Job Website | https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Cell-Biology--Sub-cellular-imaging-_R00018727 |
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| Apply By Email | |
| Job Description | |

Join Our Team at the School of Biological Sciences, Nanyang Technological University, Singapore

The [School of Biological Sciences](#) (SBS), part of the College of Science, was established in 2002 with a mission to advance biological and biomedical sciences. At SBS, our research spans various areas,

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including infectious diseases, immunology, neurodegenerative diseases, telomere biology, and genome function. Over the years, SBS has attracted talented individuals from around the world and Singapore to join as scientific leaders and researchers.

Position Available: Research Fellow

Join the laboratory of Lei Lu at the School of Biological Sciences, where we are seeking a motivated and talented Research Fellow to contribute to an exciting project focused on the endocytic trafficking of lipid nanoparticles.

Lipid nanoparticles (LNPs) have gained global attention, especially with their approval for mRNA vaccine delivery during the COVID-19 pandemic, saving millions of lives worldwide. Beyond vaccines, LNPs hold immense potential as delivery vehicles for various therapeutic nucleic acids, offering promising treatment strategies for many diseases. Despite their enormous success, the intracellular transport of LNPs — how they move within mammalian cells and deliver their nucleic acid payloads — remains poorly understood.

As part of our team, the candidate will use advanced light microscopy to explore and elucidate the molecular and cellular mechanisms governing the endocytic trafficking and intracellular delivery of LNPs. This project aims to deepen our understanding of these mechanisms, contributing to the optimization of LNP-based therapies.

Job Description

- Conduct cutting-edge research using high-resolution light microscopy to study LNP trafficking.
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Investigate endocytic pathways and payload delivery molecular mechanisms.

- Collaborate with a multidisciplinary team to advance the field of nanoparticle-based therapeutics.
- Perform any other duties as assigned.

Job Requirements

- PhD in cell biology or related fields, with a focus on membrane trafficking.
- Experience in light microscopy.
- Strong written and verbal communication skills in English - essential for data analysis and communication with stakeholders
- Strong publication record.
- Entry-level candidates are welcome to apply.

The College of Science seeks a diverse and inclusive workforce and is committed to equality of opportunity. We welcome applications from all and recruit on the basis of merit, regardless of age, race, gender, religion, marital status and family responsibilities, or disability.

We regret that only shortlisted candidates will be notified.

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore