



Postdoctoral position in Stem Cell Engineering Research

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Nanyang Technological University, Singapore

School of Chemical & Biomedical Engineering

Lee Kong Chian School of Medicine

<http://www.ntu.edu.sg/home/sychew>

A postdoctoral position is available in the laboratory of Dr. Sing Yian CHEW at Nanyang Technological University, Singapore, to a highly motivated candidate who has a passion for **neuroscience** and **stem cell engineering** research. This is a joint project between Dr. Eyleen Goh's lab at [Duke-NUS Graduate Medical School](#), Dr. Larry Stanton's lab at [A*Star Genome Institute of Singapore](#) and Dr. Jerry Chan's lab at [KK Hospital \(Singapore\)](#).

The focus of this joint project is on directing human neural stem cells differentiation towards neuronal and glial lineages for regenerative medicine. We focus on novel tissue scaffold designs and non-viral drug/gene delivery methods for directed stem cell differentiation with a long-term goal of implementing these measures for spinal cord injury treatment.

This position offers a unique opportunity to gain first hand insights into scaffold design and drug/gene delivery applied to stem cell technologies for regenerative medicine, through strong collaborative efforts with multiple research institutions in Singapore.

We are seeking an individual who is interested in incorporating tissue scaffold design and drug/ gene delivery methods to direct stem cell differentiation, characterizing cell lineages and identifying factors that influence the growth/expansion/differentiation of neuronal/glial lineage cells, and to monitor and control neural activities.

The candidate will be given opportunities and is expected to design and execute experiments independently. He/she is also expected to interpret experimental results, and author papers in high-quality journals in areas that are related to the research. The candidate should demonstrate excellent communication skills and should have a strong passion and commitment to science. He/she will also work closely with the Principal Investigator to help supervise and train students and junior lab members and to ensure smooth functioning of an active research program.

Requirements:

- PhD level scientist with strong scientific background in stem cell research and no more than 2 years of postdoc experience.

- Expertise in *in vitro* differentiation protocols, characterization of cells with flow cytometry analyses, western blotting, immunostaining, RT-PCR, fluorescent microscopy (confocal) imaging, functional assays.
- Stem cell biologist, experienced with human ES/iPS/neural stem cells, and expertise in molecular cell biology and *in vitro* assays is a plus.
- Strong ability to communicate effectively orally and in written form, and experienced in writing manuscripts.
- Strong organizational skills and proactive personality with outstanding motivation, creativity, critical and analytical thinking skills, strong scientific commitment and ability to work as a team.

Starting salaries will depend on candidate's qualification and experience. Candidates are expected to start early 2016. Review of applicants will continue until position is filled. Applicants should submit a cover letter indicating their area of interest and how they intend to participate and contribute to the lab's research, complete curriculum vitae and addresses of three references in a single PDF document to Dr. Sing Yian CHEW: sychew@ntu.edu.sg