

Research Theme: Telomeric chromatin structure and dynamics
Research Project Title: Solid State NMR on chromatin
Principal Investigator/Supervisor: Lars Nordenskiöld
Co-supervisor/ Collaborator(s) (if any): Konstantin Pervushin
Project Description A PhD studentship position is open at Nanyang Technological University (NTU), School of Biological Sciences, in a team headed by Prof Lars Nordenskiöld (http://www.sbs.ntu.edu.sg/aboutus/Faculty/LarsNor/Pages/Home.aspx) in collaboration with Assoc. Prof. Konstantin Pervushin at the same department (http://www.sbs.ntu.edu.sg/aboutus/Faculty/kpervushin/Pages/Home.aspx). This project is part of the programme “ <i>Telomere dynamics and genome function: From DNA to the nucleosome to the nucleus</i> ”, a new, major initiative, which was recently awarded a Singapore Ministry of Education Tier 3 block grant (http://www.sbs.ntu.edu.sg/TDG/Pages/Home.aspx). The goal of the present project is to develop and use the latest advances in solid-state NMR high resolution structure determination of biomolecules to study the structure of telomere nucleosomes and chromatin fibres in solid precipitated form. The applicant should have a 4 year BSc (Honours) or equivalent (if not BSc (Hons) preferably a Master's degree) in a scientific discipline (Chemistry, Physics, Engineering, or Biology) from renowned University. Candidates must have a passion for and strong interest in academic basic research applied to biological problems; possess strong communication skills, be motivated, responsible and disciplined with an aptitude for team work. The candidate should preferably have background in nuclear magnetic resonance with knowledge of NMR structure determination of biomolecules. Experience from solid-state NMR and/or protein over-expression and purification is a plus. Come summer 2016, NTU will be equipped with the most modern solid state NMR instruments available in a new facility including one 600 MHz and one 800 MHz spectrometers. To apply, please submit a brief cover letter, CV, and the names and the contact information of three referees to Ms Ai Cho CHAN Email: ACChan@ntu.edu.sg
Supervisor contact: If you have questions regarding this project, please email the Principal Investigator: Email: LarsNor@ntu.edu.sg
SBS contact and how to apply: Associate Chair-Biological Sciences (Graduate Studies) : AC-SBS-GS@ntu.edu.sg Please apply at the following: http://admissions.ntu.edu.sg/graduate/R-Programs/R-WhenYouApply/Pages/R-ApplyOnline.aspx