

Research Theme:
Research Project Title: Application of 3D culture to investigate somatic cells reprogramming, cancer development and various cellular events
Principal Investigator/Supervisor: : LI Hoi Yeung
Co-supervisor/ Collaborator(s) (if any): NA
Project Description
<p>3D microenvironment plays important roles on somatic cells reprogramming, cancer development and various cellular events in our body. In this project, we aim to develop an in vitro 3D culture system and related microscopy technique (such as light-sheet and multiphoton microscope) to mimic the 3D microenvironment for our investigation of somatic cells reprogramming, cancer development and various cellular events in our body. 3D cell culture stands out among other methods by achieving physiological relevance between the natural <i>in vivo</i> and culture environment. They function as appropriate model systems augmented with improvements in various areas of study such as cell physiology, pharmacology and cancer biology. With the growing recognition of 3D cell culture as an upcoming dimension in the biomedical industry.</p>
Supervisor contact:
<p>If you have questions regarding this project, please email the Principal Investigator: HYLi@ntu.edu.sg</p>
SBS contact and how to apply:
<p>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</p>