### Research Theme:

### Research Project Title:
Application of 3D culture to investigate somatic cells reprogramming, cancer development and various cellular events

### Principal Investigator/Supervisor:
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### Co-supervisor/ Collaborator(s) (if any):
NA

### Project Description

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 in vivo 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.

### Supervisor contact:
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Please apply at the following: [http://admissions.ntu.edu.sg/graduate/R-Programs/R-WhenYouApply/Pages/R-ApplyOnline.aspx](http://admissions.ntu.edu.sg/graduate/R-Programs/R-WhenYouApply/Pages/R-ApplyOnline.aspx)