



Research Theme: Neurobiology
MSc Research Project Title: Characterization of memory deficits in dementia model mice
Principal Investigator/Supervisor: Asst Prof Ayumu Tashiro
Co-supervisor/ Collaborator(s) (if any):
Project Description a) Background: Dementia is the conditions where people show decline in normal cognitive function, such as thinking, memory and social abilities. For example, Alzheimer's disease and vascular dementia are the most common types of dementia. We have been using mouse models of dementia, in which the manipulation mimicking human conditions causes memory and emotional deficits. b) Proposed work: In this project, a student will characterize one (or more) of dementia model mice for memory- and emotion-related behaviors. In addition, the student will analyze brain sections to identify histological alterations in the model mice. Further, the student will examine whether environmental stimulation rescues such dementia-like deficits in the model mice. c) Preferred skills: Ability and motivation to learn handling mice (no prior experience required)
Supervisor contact: If you have questions regarding this project, please email the Principal Investigator: atashiro@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: Application portal: https://venus.wis.ntu.edu.sg/GOAL/OnlineApplicationModule/frmOnlineApplication.ASPX