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| **Research Theme: Cell Biology/Biochemistry** |
| **PhD Research Project Title: How are organelle size and number of organelles maintained?** |
| **Scholarship category (Please indicate the type of scholarship for this project):**   1. **SBS Research Student Scholarship (for SBS faculty only)** 2. **Grant Scholarship (NTU Central RSS)** |
| **Principal Investigator/Supervisor: Sho Suzuki** |
| **Co-supervisor/ Collaborator(s) (if any): No** |
| **Project Description**  By 2050, the number of dementia patients in Singapore is projected to reach 187 thousand, indicating that one out of every thirty Singaporeans will be affected by dementia. Therefore, the imperative to establish effective treatments is evident. The leading cause of dementia is neurodegenerative diseases, such as Alzheimer’s and Parkinson’s disease. Remarkably, numerous mutations associated with these neurological disorders have been identified in genes related to endosomes. However, the mechanisms through which endosome dysfunction contributes to the progression of these diseases remain poorly understood. In this research project, the Ph.D. candidate will explore the mechanism of how endosome size and number are maintained. |
| **Supervisor contact:**  **If you have questions regarding this project, please email the Principal Investigator:** |
| **SBS contact and how to apply:**  Associate Chair-Biological Sciences (Graduate Studies) : [AC-SBS-GS@ntu.edu.sg](mailto:AC-SBS-GS@ntu.edu.sg)  Please apply at the following:  **Application portal:** <https://venus.wis.ntu.edu.sg/GOAL/OnlineApplicationModule/frmOnlineApplication.ASPX> |