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| **Research Theme: Proteomics and Protein** |
| **MSc Research Project Title:**  Open science: highly distributable methods via robotic automation |
| **Scholarship category (Please indicate the type of scholarship for this project):** |
| **Principal Investigator/Supervisor: Xueming Dong** |
| **Co-supervisor/ Collaborator(s) (if any):** |
| **Project Description**  **a) Background:**   1. Open science is a movement to make scientific research and its dissemination accessible to all levels of society, amateur or professional. 2. Even most meticulously drafted protocol may fail to meet regulations due to the vast difference in the expertise.   **b) Proposed work:**  In this project, we will develop robotic protocols for both simple and complex laboratory procedures. The reproducibility and robustness to be cross-checked and compared with different operators and different groups. The ultimate aim of this project is to produce highly distributable protocols that meet clinical laboratory improvement act regulations.  **c) Preferred skills:**   1. Experience with mass spectrometry. 2. Experience with robotics. |
| **Supervisor contact:**  **xueming.dong@ntu.edu.sg** |
| **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> |