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| **Research Theme: Proteomics and Protein** |
| **MSc Research Project Title:**  Comparison of hydrogen-deuterium exchange kinetics and mechanisms in size exclusion chromatography and in solution. |
| **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. Hydrogen-deuterium exchange (HDX) have been reported in both size exclusion chromatography (SEC) and in solution. 2. However, the detailed exchange patterns and kinetics has not been investigated in detail.   **b) Proposed work:**  In this project, we will compare the HDX patterns occurred in SEC columns and in solutions.  **c) Preferred skills:**   1. Experience with mass spectrometry 2. Experience with HDX |
| **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> |