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| **Research Theme: Drug Discovery; Protein Engineering** |
| **PhD Research Project Title: Protein conjugates in cancer therapy** |
| **Principal Investigator/Supervisor: Liu Chuan Fa** |
| **Co-supervisor/ Collaborator(s) (if any):** |
| **Project Description**  **a) Background: Cancer is a major threat to human health. Traditional cancer treatments such as radiation and chemotherapy have serious side effects. New treatment strategies with much improved safety profiles are developed in recent years, which use kinase inhibitors, monoclonal antibodies and other targeted anti-cancer agents. However, these targeted therapies offer only incremental benefits.**  **b) Proposed work: This project aims at developing protein conjugates as a new class of anti-cancer agents that combine the advantages of targeted and traditional anti-cancer therapies. The protein conjugates comprise a cancer-directing protein (e.g., an antibody) to provide the selectivity and an effector molecule (e.g., a cytotoxic drug) to provide the tumor-killing potency.**  **c) Preferred skills: molecular biology and protein science. Some organic chemistry knowledge and experience would be a big plus.** |
| **Supervisor contact:**  **If you have questions regarding this project, please email the Principal Investigator:** [**cfliu@ntu.edu.sg**](mailto:cfliu@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> |