NANYANG TECHNOLOGICAL UNIVERSITY

School of Biological Sciences

Reg. No. 200604393R

Research Theme:
Research Project Title: **Investigation on the molecular mechanism and physiological roles of AAA-ATPase p97/VCP in cancer metastasis**
Principal Investigator/Supervisor: : LI Hoi Yeung
Co-supervisor/ Collaborator(s) (if any): NA
Project Description Cancer metastasis is the leading cause of cancer-related death worldwide. A considerable number of studies were conducted to dissect the molecular mechanism of the development of cancer metastasis, however, there are still many questions remain to be answered. Recent reports suggested that the expression level of p97/VCP is markedly elevated and has been shown to be associated with the progression of many cancer types. Furthermore, inhibitor targeting p97 showed significant antitumor activity although it is still unclear how p97/VCP is involved in cancer development. Our recent findings suggested that p97/VCP knockdown impairs the motility of cancer cells. This leads to our hypothesis that p97/VCP plays an important role in cancer metastasis. Since regulation of actin cytoskeleton is critical in varies stages of cancer metastasis and it is still unclear how p97/VCP is involved in cancer metastasis, we propose to uncover the molecular mechanism on how p97/VCP regulates actin cytoskeleton and its physiological roles in the regulation of cancer metastasis which will provide important insights on drug development targeting p97/VCP for cancer treatment.
Supervisor contact: If you have questions regarding this project, please email the Principal Investigator: HYLi@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: http://admissions.ntu.edu.sg/graduate/R-Programs/R-WhenYouApply/Pages/R-ApplyOnline.aspx

60 Nanyang Drive, Singapore 637551
Tel: +65 6316 2800, Fax: +65 6791 3856
Website: http://www.sbs.ntu.edu.sg/Pages/Home.aspx