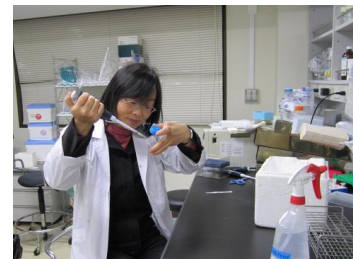


スー・リさん / 京都大学
Dr. Li Su / Kyoto University

<外国人研究者プロフィール Profile>

国籍: Nationality:	中国 / China
日本留学時の滞在期間: Period of Stay During Japan:	1998年10月7日 ~ 2005年11月20日 Oct 7, 1998 ~ Nov 20, 2005
日本留学時の大学: Education Background in Japan:	京都大学 / Kyoto University
専攻分野: Major Field:	免疫学 / Immunology
現在の所属/職位: Present Institution / Status:	華中科学技術大学 教授 Huazhong University of Science and Technology/Professor



スー・リさん
Dr. Li Su

<研究報告 Follow up Research Fellowship>

受入研究者氏名: Research Adviser:	湊 長博教授 / Prof. Nagahiro Minato
受入れ期間: Researching Period:	2010年9月30日 ~ 2010年12月28日 Sep 30, 2010 ~ Dec 28, 2010
研究課題: Theme of Research:	Roles of Rap1 signaling on cancer metastasis

■研究概要 Outline of Reserch

This research aims to dissect the mechanism by which Rap1 signaling controls cancer metastasis. We found SPA-1, a Rap1GTPase activating protein, is overexpressed in migrated cancer cells in breast cancer patients. This suggests that SPA-1 protein is probably a novel target molecule to promote the migration of cancer cells. In this research we will perform the following studies: 1). Establish the cell lines for SPA-1/wt and knock down or out; 2). Investigate the implication of integrins in Rap1-related proliferation, apoptosis and adhesion pathways. The research will take the advantage of our established collaborations with Dr. Nagahiro Minato from School of Medicine Kyoto University. Completion of these studies, we can tighten the scientific collaboration between China and Japan.



培養細胞の観察
Observation of cultured cells

■研究成果 Result of Reseach

We generated SPA-1 knock-down breast cancer cells by used of retrovirus transfection methods and selected by drug resistant. From the selected colonies, 3 were confirmed by its down-expression protein level and high Rap1 activity. Additionally, stable expressing of ER in breast cancer cell MDA-MS-231 was established by Facscan sorting process. By use of these new cell lines, we could make clear how the SPA-1 or/and Rap1 signaling regulates the cancer cell metastasis. We prepared the anti-SPA-1 antibody by which more researches for example the immunostaining on tissues can be done in the coming year.

■日本留学の思い出 Memories of Studying in Japan

It's great to follow-up researches in the familiar laboratory with the familiar Sensei. Frankly speaking, three-month is very short for an exploratory project, however, it's good chance to communicate with the Professor and to focus on the coming researches. It's helpful to continue the mutual collaboration with each other. It's full of happiness to do researches in my familiar Lab.

Kyoto seems to be my second hometown in my life. The follow-up also deepened the friendship with old friends. Time is flying, but the friendship is forever.