

Special Lectures

A Life changing experience: the opportunities and challenges of study PhD in Japan



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Attending the PhD program at the Department of Developmental Stomatognathic Function Science, Kyushu Dental University is the incredibly valuable and life-changing experiences. While no international students experience in the same ways, education abroad provides me a career opportunity, a global perspective, a long-term partnership and useful clinical and research skills which is extremely rewarding to my entire life.

I was in the program that allowed me to do a joint PhD course between research and pediatric clinical skills. I had a great opportunity to expose to new research environment and methods as well as academics who have different perspective. Moreover, I also had a chance to participate in the international conferences which benefited me greatly including expanding my knowledge and improving my presentation and communication skill. It was not only just do research abroad, but to fulfil the other dimensions including culture, linguistic skill, friendship and personal development.

My research studies focused on the influence of enamel related gene products (ERPs), especially ameloblastin (Ambn) and enamelin (Enam) on osteoclastogenesis. In the past few decades, an enormous body of research on the tooth morphogenesis have provided strong evidence for an association of ERPs with amelogenesis. Indeed, ERPs have been known to contribute not only to enamel biomineralization, but also bone growth and development. In my study, we demonstrated that Ambn and Enam mediated osteoclastogenesis in both direct and indirect pathways. Firstly, Ambn and Enam suppress RANKL expression via down-regulation of ERK1/2 and p38 MAPK signaling pathways, resulting in the reduction in osteoclastogenesis in co-culture system between ST2 cells and bone marrow derived-macrophages. Subsequently, Ambn directly suppresses RANKL-induced osteoclastogenesis by modulating the NFATc1 axis.

Brief CV

Education

2015-2018 Doctor of Philosophy in Dental science, Kyushu Dental University Fukuoka, Japan

2006-2012 Doctor of Dental Surgery (Second class Honors), Faculty of Dentistry, Srinakharinwirot University, Bangkok, Thailand

Employment

2012- Lecturer, Department of Pedodontics and Preventive Dentistry, Faculty of Dentistry, Srinakharinwirot University