## 31st IRCMS Semina

## Date: November 15, 2017 (Wed)

Time: 11:00-12:00

Venue: 1F Meeting Lounge International Research Center for Medical Sciences (IRCMS)

Speaker: Dr. Kasem KULKEAW Assistant Professor, Department of Research and Development of Next Generation Medicine, Faculty of Medical Sciences, Kyushu University, Japan

## Title: Study of a new player in epigenetic regulation of erythropoiesis

Production of red blood cells or erythrocytes, a process known as Abstract: erythropoiesis, is tightly regulated in order to produce sufficient erythrocytes. Epigenetic is of functional number one of mechanisms regulating erythropoiesis. In this seminar, I will discuss our current research on epigenetic of erythropoiesis. We identify a new member of GCN5-related N-acetyltransferase family, which we terms GNAT-like protein. GNAT-like protein binds acetylcoenzyme A, a key source of acetyl group for histone acetylation but lacks histone acetylation activity. By contrast, GNAT-like protein suppresses histone acetylation activity of other histone acetyltransferase in vitro. Gain- and loss-of-function studies show that GNA-like protein likely play three distinct roles in epigenetic; (1) a carrier of acetyl-coenzyme A, (2) a histone acetyltransferase or (3) negative regulator of histone acetylation.

Organizer: Prof. Toshio Suda International Research Center for Medical Sciences (IRCMS) TEL:096-373-6847 FAX:096-373-6869 ircms@jimu.kumamoto-u.ac.jp