

Title:**“Introduction for the successful collaboration between biologists and mathematicians.”****Abstract:**

The revolution of molecular biology in the early 1980s has revealed complex biochemical interactions underlying biological systems. To understand this complex system, collaborations between biologists and mathematicians have played important roles. In this talk, I will introduce a way for successful collaborations with examples of circadian rhythms and cancer. Specifically, I will describe how the combination of mathematical modeling and experiments have successfully identified molecular mechanisms for robust circadian timekeeping and circadian regulation of a tumor suppressor, p53.

Date:**29 August 2016
(Monday)****Venue:****Meeting Room 7C,
Level 7**

Duke-NUS Medical School
8, College Road,
Singapore 169857

Time:**12:00 p.m. - 1:00 p.m.****Host:****David Virshup, M.D.**

Professor & Director
Programme in Cancer & Stem Cell
Biology
Duke-NUS Medical School
Singapore

Speaker:**Jae Kyoung KIM,
Ph.D.**

Assistant Professor,
Department of Mathematical
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Dr. Kim received his Ph. D. in Mathematics from U of Michigan, Ann Arbor studying mathematical model of cellular rhythms with Dr. Daniel Forger. He then moved to a postdoctoral fellow in the Mathematical Biosciences Institute (a NSF Mathematical Sciences Institute) at the Ohio State University. He is an assistant professor in Dept. of Mathematical Sciences, KAIST. Currently, he investigates interactions between circadian rhythms and diseases using mathematical models with biologists.

No registration is required. All are welcome.

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