

You are cordially invited to...

## Chronopharmacology: Time makes the poison.

### Abstract:

Biological clocks are in all cells of the human body. They modulate most behaviors and physiological processes in our bodies. They determine activity and rest phases, but also modulate physiology accordingly, for example, the peak in blood pressure is reached just before the start of the active phase.

My research is focused on the complex interplay between this intricate internal timing system and diseases as well as their treatment. Chronopharmacology aims at understanding how the various clock-controlled processes in the human body effect drug behaviour, and which aspects are the key variables. The perspectives of his work include improving tolerability and efficacy of already existing treatments and to aid in the development of new drugs.



### Speaker:

#### Dr. Robert Dallmann

Assistant Professor

Duke Molecular Physiology  
Institute

Duke University Medical Center

**Dr. Robert Dallmann** has studied primatology and for his PhD work switched to chronobiology in Hannover (Germany). He has since worked on many aspects of the circadian regulation on the behavioural, physiological and molecular level. After post-doctoral fellowships at University of Toronto (Canada), UMass Med School (USA) and University of Zurich (Switzerland), and a position in the pharmaceutical industry, he has established his own group at Warwick Medical School trying to understand the mechanism of chronotherapy using pre-clinical model systems.

### Date:

**12 Sep 2019  
(Thursday)**

### Venue:

#### Meeting Room 7C

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

### Time:

**3:00 - 4:00 p.m.**

### Host:

#### David Virshup

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

**No registration is  
required.**

**All are welcome.**

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