

Carlos O. Miller

Lecture in Plant Molecular Biology

Steve A. Kay, Ph.D.

Chairman, Department of Biochemistry
Director, Institute for Childhood and Neglected Diseases
Professor, Cell Biology
The Scripps Research Institute

presents

Systems Approaches to Understanding Circadian Clocks

April 19th, 2007

4:00 pm Myers Hall 130



Steve A. Kay is a leader in the study of the complex genetic networks that underlie circadian rhythms in animals and plants. His lab identified how flowers know when to bloom and studies how circadian clocks operate inside of cells using molecular, genetic, and genomic approaches in model systems, including the mouse, *Arabidopsis*, and *Drosophila*.

A circadian rhythm is a roughly 24-hour cycle affecting the physiological processes of many different organisms, including plants, animals, fungi, and cyanobacteria. The circadian clock controls everything from the sleep-wake cycle in humans to the overall rate of photosynthesis in plants. Dr. Kay's studies impact our understanding of these cycles, and they may assist with manipulation of plant rhythms and development of treatments that could benefit patients suffering from a variety of disorders.

For more information, visit:

http://development.bio.indiana.edu/miller_lecture.htm