

School Seminar Series

“A versatile way to build a biological switch: PAS domains”



Prof. Kevin Gardner

Professor of Biochemistry

*Virginia Lazenby O'Hara Chair in
Biochemistry - W.W. Caruth Jr. Scholar
in Biomedical Research at the
University of Texas, Southwestern
Medical Center in Dallas*

**FRIDAY 3rd
September 2010 -
1.00p.m.**

**Lunch provided from
12.30pm**

Seminar Room 5.01,
Level 5, Molecular Life
Sciences Building

All Welcome

If you would like to meet with
Prof. Kevin Gardner
Contact: Dr Briony Forbes
Phone: 8303 5581 or Email:
briony.forbes@adelaide.edu.au

Many biological processes are regulated by environmental cues *via* sensory protein domains that bind both biochemical cofactors and downstream proteins, using changes in cofactors to trigger allosteric changes that affect protein binding. Notably, domains with the same overall structure can use different input stimuli and effector activities in various proteins. Here, I will overview our studies of this principle highlighting Per-ARNT-Sim (PAS domains) as an example.