The Open University is pleased to host

‘Calcium in the heart: from physiology to disease’

Professor David Eisner

GL Brown Prize Lecture 2014

The GL Brown Prize Lecture is awarded by The Physiological Society to a researcher who has made outstanding contributions to the knowledge of physiological systems. Professor Eisner has a highly distinguished research profile, and is one of the UK’s leading cardiac physiologists.

When: Tuesday 18th March 2014 at 4pm, followed by a drinks reception.

Where: Berrill Lecture Theatre, Walton Hall Campus, The Open University.

Who: Prof. David Eisner, M.A. D.Phil, FRCP (Hon), FMedSci – Professor of Cardiac Physiology, University of Manchester.

Hosts: Katja Rietdorf and Martin Bootman (LHCS).

Calcium is the master controller of heart function. It needs to increase with each beat to trigger the heart to contract and pump blood. Between beats, calcium levels must recover so that the heart can relax and fill with blood. Heart disease, the major killer world-wide, is associated with abnormal calcium signaling.

In this lecture I will present an overview of cardiac calcium signaling, showing how imaging, electrophysiology and molecular tools have contributed to our understanding of the physiology.

The first half of the talk will concentrate on the simple, yet elegant mechanisms that regulate calcium. The remainder will focus on abnormal calcium regulation and how this can lead to some of the changes seen in heart failure as well as contributing to the origins of cardiac arrhythmias.

Please secure your seat by emailing science-biomed@open.ac.uk by Friday, 7th March 2014