School of Biological Sciences

THE LOWRY LECTURE 2018

Wednesday 14th November 2018

3:00pm – 4:00pm

Venue: Harborne Lecture Theatre

Hosted by Prof Kim Watson

Guest speaker

Prof Judith Armitage

Department of Biochemistry, University of Oxford

'Putting things in the right place: How do bacteria get organised?'

Bacteria have no obvious internal architecture, but they still divide at the correct moment into two reasonably equal daughter cells, each with the required complement of DNA and proteins to grow and compete. This requires coordinated choreography of cell component. Using live cell imaging, molecular genetics and biophysics I will describe the sequence of events in the *Rhodobacter sphaeroides* and some unexpected mechanisms for segregating protein complexes. Using related techniques, I will describe how some of the bacterial large protein complexes are not stable nanomachines, but are remodelled as the external environment changes allowing them to function under different conditions. Taken together I hope to show you some of the ways in which bacteria sense and respond to their environment, tuning both the cell cycle and behaviour for survival.

All WELCOME

The Lowry Lecture will be followed by a wine reception in Harborne Foyer.