

Neuroscience & Non-Communicable Diseases

Friday 12th April, 4pm Wallace Wurth LGO2

Dr Alastair Stewart

Victor Chang Cardiac Research Institute

Cryo-EM studies of E. coli ATP synthase



Here we present our cryo-EM maps of the intact ATP synthase complex from Escherichia coli. This essential enzyme synthesises the bulk of cellular ATP, the energy currency of the cell. The structures highlight unique features of this ATP synthase complex, such as the bifurcation of the peripheral stalk homodimer and the position of the inhibitory subunit ϵ . Further studies on this complex reveal a possible partially active conformation, which points to the molecular events that may inhibit this marvellous motor.

All welcome. Drinks and nibbles from 3:30pm, seminar starts, 4pm.

Enquiries: Natasha Kumar; *Natasha.kumar@unsw.edu.au* Ingvars Birzniek; *i.birznieks@unsw.edu.au*