

Evolution brings Ca²⁺ and ATP together to control life and death

16-17 March 2016

Organised by Professor Ole Petersen CBE FRS and Professor Alexej Verkhratsky

DAY 1				DAY 2			
SESSION 1 Chair: Ole Petersen		SESSION 2		SESSION 3		SESSION 4	
09.00	Welcome by the Royal Society & Ole Petersen	Chair: Sir John Walker		Chair: Alexej Verkhratsky		Chair: Alan North	
09.05	Alexej Verkhratsky Evolution of Ca ²⁺ signalling	13.15	Ole Petersen Calcium and ATP control of cellular pathology	09.00	Alan North P2X receptors	13.15	Oleg Krishtal Orthosteric inhibition of ASICs in the brain
09.30	Discussion	13.45	Discussion	09.30	Discussion	13.45	Discussion
09.45	John Walker Mitochondrial ATP production	14.00	Anant Parekh The role of store-operated Ca ²⁺ channels in cellular pathology	09.45	Maiken Nedergaard The glymphatic system	14.00	PierLuigi Nicotera Deregulation of ion homeostasis and ATP support in neurodegeneration
10.15	Discussion	14.30	Discussion	10.15	Discussion	14.30	Discussion
10.30	Coffee	14.45	Tea	10.30	Coffee	14.45	Tea
11.00	Tullio Pozzan Ca ²⁺ and cAMP signalling in mitochondria	15.15	Peter Hegyi The roles of Ca ²⁺ and ATP in pancreatitis	11.00	Arthur Konnerth Calcium-dependent memory traces in neurons and glia	15.15	Maria Abbrachio Nucleotides, Ca ²⁺ and the fate of neural stem cells
11.30	Discussion	15.45	Discussion	11.30	Discussion	15.45	Discussion
11.45	Geoff Burnstock Short and long-term (trophic) purinergic signalling	16.00	Frances Ashcroft ATP-sensitive K ⁺ channels and diabetes	11.45	Annette Dolphin Voltage-gated calcium channels in neuronal signalling	16.00	Michael Berridge Calcium, memory and Alzheimer's disease
12.15	Discussion	16.30	Discussion	12.15	Discussion	16.30	Discussion
12.30	LUNCH	16.45	Poster session	12.30	LUNCH	16.45	Panel discussion: Future directions
		17.15	CLOSE			17.00	CLOSE