

ASB 2001 Program

Wednesday	17.00-18.25	Reception	
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Wednesday	18.25-19.30	Ion Channels Symposium: Session 1 <i>Chair: Peter Gage</i>	
	18.25-18.30	Brief Welcome	Ray Norton, President, ASB
Ion Channels	18.30-19.00	David Clapham	The CAT1 and CRCC calcium entry channels
Session 1	19.00-19.30	Richard Kramer	Tracking real-time changes in cyclic GMP in intact neurons using CNG channels as biosensors

Thursday	08.45-10.30	Ion Channels Symposium: Session 2 <i>Chair: Peter Barry</i>	
	08.45-08.50	Welcome	Ray Norton, President, ASB
Ion Channels	08.50-09.20	Shin-Ho Chung	Conducting-state properties of the potassium channel: molecular and Brownian dynamics simulations
Session 2	09.20-09.50	Henry Lester	P2X receptors and their interactions
	09.50-10.10	Peter Gage	Persistent sodium current and hypoxia
	10.10-10.30	Michael Roberts	Permeation and gating of CLC channels

Morning Tea 10.30-11.00

Thursday	11.00-12.50	Ion Channels Symposium: Session 3 <i>Chair: Boris Martinac</i>	
	11.00-11.30	Masahiro Sokabe	Systematically designed artificial ion channels: their properties and implications in natural ion channels
Ion Channels	11.30-11.50	Joseph Lynch	Some insights into how the glycine receptor activates
Session 3	11.50-12.10	Andrew Moorhouse	Molecular determinants of permeation in the human glycine receptor
	12.10-12.30	Derek Laver	Regulation of the calcium release channel from skeletal muscle by the nucleotides ATP, ADP, IMP and adenosine
	12.30-12.50	Joseph Kourie	Channel activity of deaminated isoforms of prion protein fragment 106-126 in planar lipid bilayers

Lunch 12.50-14.00

Thursday	14.00-15.00	Ion Channels/Protein Structure: Session 4 <i>Chair: Paul Curmi</i>	
	14.00-14.30	Michael Parker	From GSTs to pores in a CLIC
Session 4	14.30-14.45	<i>David Saint</i>	<i>The tandem pore potassium channel family membrane sensors for everything</i>
	14.45-15.00	<i>Peter Barry</i>	<i>The permeation properties of recombinant rat olfactory CNG channels and a single pore glutamate-lysine mutation that is able to reverse ion channel selectivity</i>

Afternoon	15.00-16.00	Afternoon Tea/Posters
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Thursday	16.00-17.30	Muscle / Channels / Biophysics: Session 5 <i>Chair: Cris dos Remedios</i>	
	16.00-16.30	Rainer Fink	Elementary calcium release events by the DHP-RyR receptor complex of mammalian skeletal muscle
Session 5	16.30-16.45	<i>Boris Martinac</i>	<i>The role of the hydrophobic surface match in gating of MscL by mechanical force</i>
	16.45-17.00	<i>Bradley Steel</i>	<i>Ultrahigh, ultrafast temperature jumps and protein dynamics</i>
	17.00-17.15	<i>Don Martin</i>	<i>Vasoactive peptides induce relaxation in retinal pericytes via a pathway mediated by protein kinase A</i>
	17.15-17.30	<i>Cyril Curtain</i>	<i>EPR and NMR show that Cu and Zn binding to Alzheimer's disease β-amyloid peptide generate an allosterically ordered membrane-penetrating structure containing SOD-like subunits</i>

Thursday	17.30-18.00	ASB - AGM
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Evening	18.30-22.00	Conference Dinner
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Friday	09.00-10.45	Prof. Sir Rutherford N. ("Bob") Robertson Symposium: Session 6 <i>Chair: Hans Coster</i>	
	09.00-09.05	Hans Coster	Opening remarks
	09.05-09.30	Alex Hope	The R N Robertson legacy 1953-60
Session 6	09.30-09.55	Joe Wiskich	Linking ion transport, electron flow and phosphorylation
	09.55-10.15	Jan Anderson	Dare to dream: Bob Robertson's vision of membranes
	10.15-10.45	Violeta Braach-Maksvytis / Tony Collings	Towards artificial photosynthesis - Dare to dream

Morning	10.45-11.15	Morning Tea/Posters
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Friday	11.15-12.15	Photosystems / Biophysics: Session 7 <i>Chair: Christa Critchley</i>	
	11.15-11.45	Petra Fromme	Structure and function of photosystems I and II
Session 7	11.45-12.00	<i>Garth Hendry</i>	<i>Evidence for the binding of two substrate water molecules in the S₂ state of photosystem II</i>
	12.00-12.15	<i>Anthony Larkum</i>	<i>The role of fluorescent pigments in the photoprotection of corals</i>

Lunch 13.00-14.00

Friday	14.00-15.00	Biophysics: Session 8 <i>Chair: Frances Separovic</i>	
	14.00-14.15	<i>Adelle Coster</i>	<i>Cardiac sinoatrial node cells– phase response and the memory effect</i>
Session 8	14.15-14.30	<i>Gregory Stevens</i>	<i>Energy storage by the electrochemical reduction of CO₂ to CO at a porous Au film</i>
	14.30-14.45	<i>Isabelle Marcotte</i>	<i>The interaction of the neuropeptide met-enkephalin with magnetically aligned model membranes: a ³¹P and ²H solid-state NMR study</i>
	14.45-15.00	<i>Ron Clarke</i>	<i>The Na⁺,K⁺-ATPase, the body's battery</i>

Afternoon Tea 15.00-16.00

Aug 20, 2001