

ECS 2024 Cambridge
17th International meeting of the European Calcium Society in Cambridge, UK
1st – 4th September 2024

<https://cambridge2024.calciumsociety.com/>

Invited lectures:


Opening lecture **Annette Dolphin** (University College London) chaired by Sandip Patel
Sir Michael Berridge Lecture **Gaiti Hasan** (NCBS, India) chaired by Andres Guse
Claude Klee Lecture **Martha Cyert** (Stanford, USA) chaired by Jim Putney

Sunday, 1st September

12:30 – 14:00	Registration Check-In and set-up posters
14:00 – 14:15	Welcome and Introduction Sandip Patel
14:15 – 15:15	Annette Dräger Opening Lecture Speaker: Annette Dolphin (UCL) Chair: Sandip Patel (UCL)
Session 1	Plasma membrane – ER junctions: hubs for local and global calcium signalling Introduced by Indu Ambukdar (NIH/NIDCR)
15:15 – 15:40	Genevieve Dupont (Université Libre de Bruxelles): Computational insights into the molecular mechanism of T cells microdomains formation
15:40 – 16:05	Björn Diercks (University Medical Center Hamburg-Eppendorf): Initial Ca ²⁺ microdomains in T cells
16:05 – 16:30	Isabella Derler (Johannes Kepler University Linz): Photocrosslinking: a novel tool to study Orai1 channel dynamics
16:30 – 16:45	<i>Session discussion</i>
	Coffee/Tea break
Session 2	Functional and dysfunctional states of calcium binding proteins Introduced by Daniele Dell’Orco (University of Verona)
17:15 – 17:40	Alessandra Astegno (University of Verona)
17:40 – 18:05	James Ames (University of California at Davies): Regulation of L-type Calcium Channels by Calmodulin and CaBP1
18:05 – 18:17	Short talk selected from abstract submissions
18:17 – 18:29	Short talk selected from abstract submissions
18:29 – 18:45	<i>Session discussion</i>


18:45 – 21:30	Welcome reception
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Monday, 2nd September

8:30 – 9:00	Refreshments
Session 3	Organelle-cross talk Introduced by Mo Trebak (University of Pittsburgh)  Weill Cornell Medicine-Qatar
9:00 – 9:25	Rajender Motiani (Regional Centre for Biotechnology): Calcium driven inter-organelle crosstalk: A master regulator of vertebrate pigmentation
9:25 – 9:50	Jen Liou (UT Southwestern Medical Center): Homeostatic Regulation of PIP2-Ca ²⁺ signaling at ER-PM contact sites
9:50 – 10:15	Anna Raffaello (University of Padova)
10:15 – 10:30	Session discussion
	Coffee/Tea break
Session 4	Calcium signalling in disease Introduced by Kahled Machaca (Weill Cornell Medicine - Qatar)
11:00 – 11:25	Greg Monteith (University of Queensland): Pathways to targeting calcium channels for cancer therapy
11:25 – 11:50	Mo Trebak (University of Pittsburgh): CRAC channels in metabolic disease
11:50 – 12:02	Short talk selected from abstract submissions
12:02 – 12:14	Short talk selected from abstract submissions
12:14 – 12:30	Session discussion
12:30 – 13:00	Flash Talks 1 Introduced by Ana Rossi (University of Cambridge)
	Lunch with Poster Session 1
Session 5	New calcium imaging technologies Introduced by Robert Campbell (University of Tokyo)
14:30 – 14:55	Hod Dana (Case Western Reserve University): Development and application of a high-sensitivity version of the calcium-sensitive activity integrator CaMPARI
14:55 – 15:20	Claire Deo (EMBL): Chemigenetic molecular tools for photoacoustic imaging of neural activity
15:20 – 15:32	Short talk selected from abstract submissions
15:32 – 15:44	Short talk selected from abstract submissions
15:44 – 16:00	Session discussion
	Coffee/Tea break
Session 6	Advances in NAADP signalling Introduced by Eugen Brailiou (Temple University)
16:30 – 16:55	Jonathan Marchant (Medical College of Wisconsin)


16:55 – 17:20	Jiusheng Yan (University of Texas): Crosstalk between NAADP and PI(3,5)P ₂ signaling mediated by Lsm12 and two-pore channels
17:20 – 17:45	Yongjuan Zhao (CUHK-Shenzhen): Regulatory mechanisms of a calcium signaling enzyme, SARM1
17:45 – 18:00	<i>Session discussion</i>

Monday, 2nd September (continued)

	jECS session This session will consist of two speakers selected at the jECS meeting. 
18:00 – 18:12	Speaker 1 – TBA
18:12 – 18:24	Speaker 2 – TBA
18:24 – 18:30	<i>Session discussion</i>
19:30	Dinner, Bar & Posters The college bar is open during and following dinner.

Tuesday, 3rd September

8:30 – 9:00	Refreshments
Session 7	New discoveries in the structure and function of calcium transport ATPases Introduced by Agnes Enyedi (Semmelweis University, Hungary)
9:00 – 9:25	Jason Bruce (The University of Manchester): Fuelling PMCA in pancreatic diseases
9:25 – 9:50	Elizabeth Cartwright (University of Manchester)
9:50 – 10:15	Dirk Montag (Leibniz Institute for Neurobiology): The PMCA - neuroplastin liason is essential for hearing and associative learning and memory
10:15 – 10:30	<i>Session discussion</i>
	Coffee/Tea break
Session 8	The role of allostery in calcium signalling Introduced by David Weber (University of Maryland)
11:00 – 11:25	Gary Shaw (University of Western Ontario): Coupling of Binding Sites in S100 Proteins
11:25 – 11:50	Ruth Nussinov (National Cancer Institute, Maryland)
11:50 – 12:02	Short talk selected from abstract submissions
12:02 – 12:14	Short talk selected from abstract submissions
12:14 – 12:30	<i>Session discussion</i>
	Free time
16:30 – 17:30	General assembly

17:30 – 18:30	Claude Klee Lecture Speaker: Martha Cyert (Stanford, USA): Discovering new mechanisms for calcineurin signaling Chair: Jim Putney	
19:30	BBQ, Bar & Posters The BBQ takes place in the college gardens. The college bar is open during and following dinner.	

Wednesday, 4th September

8:30 – 9:00	Refreshments
Session 9	Artificial intelligence Introduced by Jonathan Marchant (Medical College of Wisconsin)
9:00 – 9:25	Andreas Bender (University of Cambridge): ‘Artificial Intelligence in Chemical and Biology and Drug Discovery – Methods, Applications, and Pitfalls’?
9:25 – 9:50	Lukas Friedrich (Merck Healthcare KGaA)
9:50 – 10:02	Short talk selected from abstract submissions
10:02 – 10:16	Short talk selected from abstract submissions
10:16 – 10:30	<i>Session discussion</i>
	Coffee/Tea break
Session 10	Annexins and the S100 proteins Introduced by Ursula Rescher (University of Münster)
11:00 – 11:25	Jesper Nylandsted (Danish Cancer Society Research Centre, Copenhagen): Ca ²⁺ Directed Repair: Navigating Annexin Proteins to Plasma Membrane Wounds
11:25 – 11:50	Axel Brakhage (Leibniz Institute for Natural Product Research and Infection Biology): Pathogenic fungus hijacks human S100A10 (p11) to redirect fungal-containing phagosomes to non-degradative pathway
11:50 – 12:02	Short talk selected from abstract submissions
12:02 – 12:14	Short talk selected from abstract submissions
12:14 – 12:30	<i>Session discussion</i>
12:30 – 13:00	Flash Talks 2 Introduced by Martin Bootman (The Open University)
	Lunch with Poster Session 2
Session 11	Calcium signalling at membrane contact sites Introduced by Nicolas Demaurex (University of Geneva)
14:30 – 14:55	Jennifer Rieusset (Claude Bernard University Lyon): Role of endoplasmic reticulum-mitochondria calcium coupling in metabolic health and disease
14:55 – 15:20	Raz Palty (Israel Institute of Technology)
15:20 – 15:45	Alex van Vliet (MRC Laboratory of Molecular Biology in Cambridge): Autophagy Initiation through (rapid) membrane contact sites

15:45 – 16:00	<i>Session discussion</i>
	Coffee/Tea break
Session 12	Late Breaking Session Introduced by Geert Bultynck (KU Leuven) <div data-bbox="1177 250 1362 434" data-label="Image"> </div>
16:30 – 17:30	Speakers TBA
17:30 – 18:30	Sir Michael Berridge Lecture Speaker: Gaiti Hasan (NCBS, India): Integration of neuromodulatory inputs by intracellular Ca ²⁺ signaling for systemic growth and behaviour Chair: Andreas Guse
18:30	Concluding Remarks and Awards by the local organising committee
19:30	Gala Dinner The gala dinner takes place in the new dining hall. The college bar is open following dinner.