



7th RSC/SCI Symposium on Ion Channels as Therapeutic Targets

Monday - Tuesday, 27th - 28th March 2023

Wellcome Genome Campus,
Cambridge, UK

Synopsis

Ion channels are important targets for therapeutic intervention due to their extensive roles in human physiology and the pathophysiology of disease. Many successful drugs targeting this gene family have been discovered for diseases such as hypertension, epilepsy and neuropathic pain.

This symposium, the 7th in an ongoing series, will showcase the most recent advances to aid the design of new ion channel therapeutics and promote interaction between scientists with a shared interest in the field of ion channel drug discovery.

Features

- Medicinal chemistry case studies of ion channels as therapeutic targets;
- Advances in structure determination techniques and successful structure determinations of key ion channels;
- Novel pharmacology and target validation;
- Emerging technologies for targeting, assaying and modulating ion channel targets;
- Plenary speakers, poster session, trade exhibition, on-site accommodation and dinner.

Confirmed Speakers

Anna Carbone, Evotec

EVOchannel: tune in to safe molecules

Giuseppe Cecere, F. Hoffmann-La Roche Ltd

Discovery of Potent, Subtype-Selective GABA_A a5 PAMs for the Treatment of Neurological Disorders from a NAM-to-PAM Switch

Jose Maria Cid, Jansen R&D

GlN2B PAMS as enhancers of synaptic plasticity for the treatment of Alzheimer's disease

Michael Hahn, Bayer AG Pharmaceuticals

Discovery of the TASK-1 and TASK-3 Channel Blocker BAY 2586116 for the Treatment of Obstructive Sleep Apnea (OSA)

Mark Healy, Novartis

The discovery of the NMDA receptor NR2B NAM, MIJ821, a novel, rapidly acting antidepressant

Simon Holton, Nuvisan ICB GmbH

Cryo-EM Structural Studies of The Human TRPV4 Ion-Channel

Luca Ravaglia, Aptuit, an Evotec Company

From High-Throughput Screening to Target Validation: Benzo[d]isothiazoles as Potent and Selective Agonists of Human TRPM5 Possessing In Vivo Gastrointestinal Prokinetic Activity in Rodents

Stephen Tucker, University of Oxford

Defective gating underlies a novel K2P channelopathy associated with sleep apnea

Who should attend

Scientists from industry and academia interested in the therapeutic potential of ion channels. The organising committee particularly welcomes attendance and participation of students or early career researchers working in the field of ion channels.

Call for Abstracts

Abstracts are invited for both oral and poster presentations. **The closing dates are 24th June and 31st December 2022 respectively.** Posters will be displayed throughout the meeting, and there will be the option to give a two-minute oral "flash" presentation. There will be a dedicated poster session on Monday evening.

Exhibitors and Sponsors

There will be a relevant trade exhibition, and sponsors are encouraged to support this well-respected event.

Registration

Registration will open in early summer and fees will include the conference dinner. On-site accommodation will be available to book.

Organising Committee

Rose Bardell-Cox, Evotec

Mike Clegg, MSD

Karl Collins, Bayer Foundation

Brian Cox, University of Sussex

Ged Giblin, Giblin Consultancy

Sarah Major, Evotec (Chair)

Nigel Swain, Heptares

Sponsors

Sponsors are encouraged to support this popular event.



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To find out more, visit the BMCS website by using the URL or scanning the QR code here:

<https://www.rscbmcs.org/events/ionchannels23/>



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