

General Information

Features

- A poster session on the evening of 14th March will provide a valuable forum at which participants can discuss their work with a cross-disciplinary group of ion channel scientists.
- A relevant trade exhibition is offered.
- The conference dinner will be held at the Wellcome Trust on 14th March and is included in the registration fee.
- Discounted rates are offered to RSC and SCI student members, and some student bursaries are available.

Venue and Travel

Wellcome Trust Conference Centre, Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1RQ. By air: Stansted airport is 20 minutes' drive, London City and Luton are 60 minutes, and Heathrow and Gatwick are 90 minutes.

Registration and Students

Registration is open. Fees include conference dinner attendance and until 6th February are: £280 member of the RSC or SCI

£340 non-member

£150 student* member of RSC or SCI (undergraduate or postgraduate, not post-doc)

£170 student* non-member (undergraduate or postgraduate, not post-doc)

A late booking fee of £50 will be added to payments received after 6th February.

* Student is undergraduate or postgraduate, not post-doc.

Some student bursaries are available.

Exhibition Opportunities

We are pleased to be able to offer exhibitor spaces at this event at a fixed rate of £500 (excludes delegate fee). Those companies wishing to have a trade stand should apply early to avoid disappointment as space is limited.

£500 exhibition trade stand (excluding delegate)

£100 trade stand staff (excludes technical programme attendance and conference dinner)

£150 trade stand staff (excludes technical programme attendance, incl conference dinner)

Accommodation

Accommodation is available at the conference venue, and should be booked at the time of registration. The charge is £119 per night B&B in double rooms for single occupancy. Bedrooms are available in Mulberry Court at the Wellcome Trust on Sunday and Monday, 13th and 14th March (limited availability).

Organising Committee

Brian Cox, University of Sussex

Karl Gibson, Sandexis

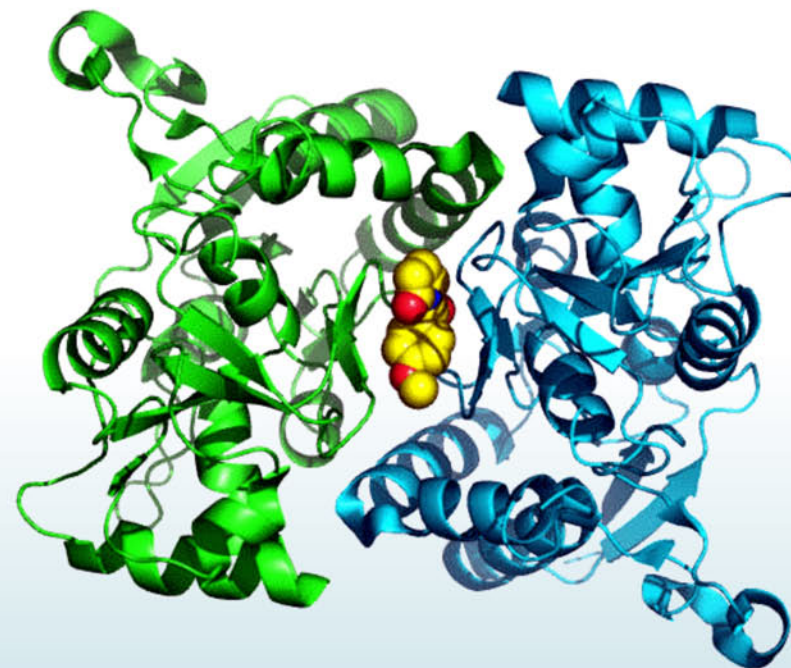
Nigel Swain, Pfizer

David Witty (chairman), Convergence

Secretariat Contact

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Final Announcement and Call for Posters



5th RSC / SCI Symposium on Ion Channels as Therapeutic Targets

14th-15th March 2016

Wellcome Genome Campus Conference Centre
Cambridge, UK



Organised by:
RSC Biological and Medicinal Chemistry Sector and
SCI Fine Chemicals Group

www.maggichurchouseevents.co.uk/bmcs
and www.rsc.org/bmcs

Introduction and Programme

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. Advances aiding design of new therapeutics include: refinement of electrophysiology platforms; target validation through genetic association with human disease; ion channel structural determination; and demonstration of antibodies capable of specific modulation of channel subtypes.

The objective of the symposium is to showcase the most recent advances in ion channel science and to promote scientific interaction between scientists with a shared interest in the field of ion channel drug discovery. The conference will be organised around a series of plenary lectures and seminars delivered by international leaders in ion channels research from academia and industry. In addition there will be a poster session, a trade exhibition and opportunities for informal networking.

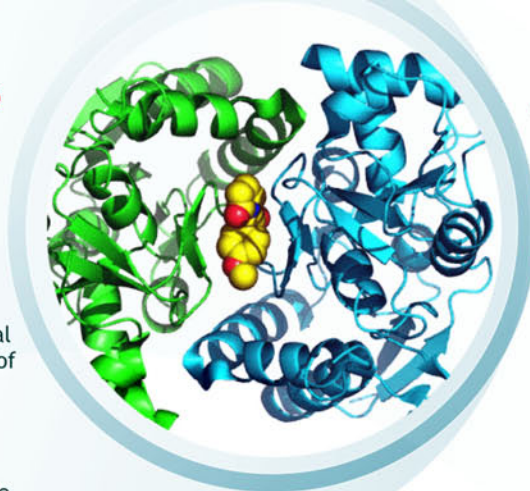
Who should attend

Scientists in industry and academia interested in the therapeutic potential of ion channels, both research leaders and practical drug designers.

Programme

Monday, 14th March

- 09.00 Registration and refreshments
- 10.35 *Opening remarks*
Session chair: **David Witty**, Convergence
- 10.45 *Progress in development of ion channel drugs*
Simon Tate, Convergence
- 11.30 *Ion channel hit finding: libraries, assays and analytics*
Stephen Hess, Evotec
- 12.30 Lunch, exhibition and posters
- 13.40 *Opening remarks*
Session chair: **Karl Gibson**, Sandexis
- 13.45 *Single particle cryo-EM on TRP channels*
Yifan Cheng, University of California San Francisco
- 14.35 *TRPA1 as a target for pain and respiratory disorders*
David Madge, WuXi AppTec
- 15.25 Refreshments, exhibition and posters
- 15.55 *Discovery and optimization of spirocarbamate TRPV4 antagonists*
Patrick Stoy, GlaxoSmithKline
- 16.40 7 x five-minute teaser talks for posters
- 17.15 Poster session and drinks reception
- 19.00 Conference dinner



Additional Information

Call for Posters

Posters are invited for display throughout the meeting, and for a dedicated poster session on the evening of 14th March. Please download a template from the website - closing date is 14th February.

Programme

Tuesday, 15th March

- 09.00 *Opening remarks*
Session chair: **Ged Giblin**, Convergence
- 09.05 *Sodium channel structure and channel blocker binding as a basis for rational drug design*
Bonnie Wallace, Birkbeck College
- 09.55 *Molecular dynamics simulations of sodium channel protein - drug interactions*
Ben Corry, Australian National University
- 10.45 Refreshments, exhibition and posters
- 11.10 *Discovery of potent and highly selective NaV1.8 inhibitors as potential pain therapeutics*
Alan Brown, Pfizer Worldwide Medicinal Chemistry
- 12.00 *NaV1.7 inhibitory peptides from tarantula venom: engineering potency and selectivity towards developing novel pain therapeutics*
Kaustav Biswas, Amgen
- 12.45 Lunch, exhibition and posters
- 13.45 *Opening remarks*
Session chair: **Alan Brown**, Pfizer Worldwide Medicinal Chemistry
- 13.50 *Kv3 channels modulation towards clinical application in hearing disorders and schizophrenia*
Giuseppe Alvaro, Autifony
- 14.35 *Ion channel drug discovery by structural biology- identification and characterisation of a potentiator binding site in SK2 ion channels*
Gareth Young, Pfizer Neuroscience and Pain
- 15.15 *Ion channels as novel targets in cancer*
Mustafa Djamgoz, Imperial College London
- 16.00 Closing remarks

Sponsorship

We are grateful to Pfizer and Evotec for their sponsorship of the conference. Please contact the secretariat for details of further sponsorship opportunities.

