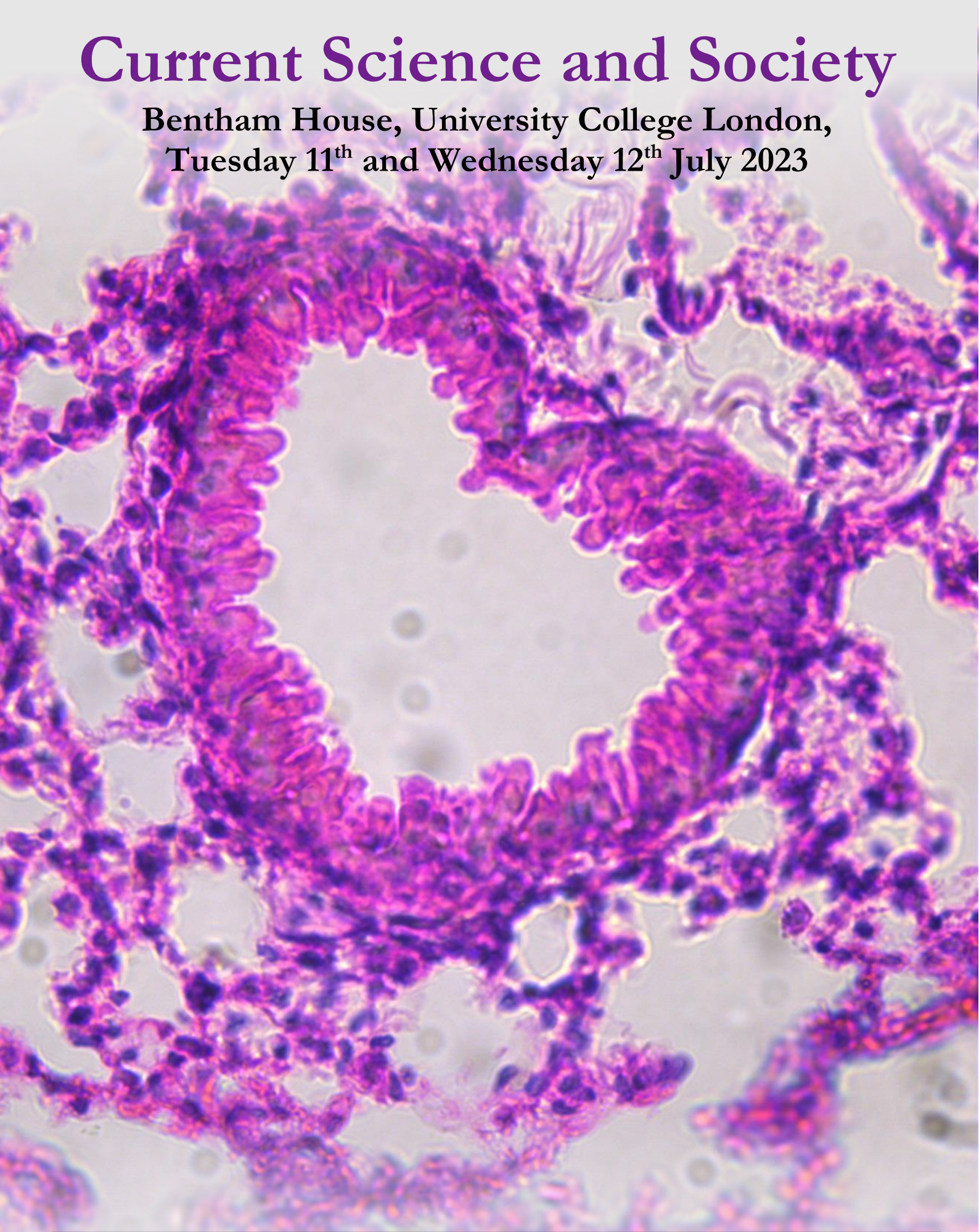


Current Science and Society

Bentham House, University College London,
Tuesday 11th and Wednesday 12th July 2023



Medical
Research
Council



Imperial College
London

MMXXIII

Day One

Tuesday 11th July, 2023
Registration in the Foyer from 09:00
Breakfast in the Foyer from 09:30-10:00

Plenary [10:00-11:00]

Host and pathogen determinants of immunophenotype switching in chronic respiratory aspergillosis
Professor Darius Armstrong James ^{Imperial}
SB31 Denys Holland LT

Contemporary Issues in Society [11:00-12:15]

Social justice and health equity
Professor Sir Michael Marmot ^{UCL}
SB31 Denys Holland LT

Coronavirus and the shifting landscape of
policy
Professor Francoise Balloux ^{UCL}
Bentham House LG26

Viruses: from Cancer to COVID
and back again
Professor Lawrence Young ^{Warwick}
**124 Gideon Schreier Lecture
Theatre**

Light Break [12:15-12:25]

Scientific Methods and Research [12:25-13:30]

Designing powered studies: Insights
from Psychology¹, Preclinical Science²,
and Neuroscience^{3,4}
Dr Daniel Baker ^{York}
Dr Eileidh Macnicol ^{KCL}
Professor Marcus Munafò ^{Bristol}
Dr Simon White ^{Cambridge}
SB31 Denys Holland LT

Modelling and simulation in healthcare
Professor Steven Niederer ^{Imperial}
Dr Srikanth Ramaswamy ^{Newcastle}
Bentham House LG26

Historical uses of natural
products as antimicrobials:
insights from a STEM arts
consortium
Dr Freya Harrison ^{Warwick}
**124 Gideon Schreier Lecture
Theatre**

Lunch [13:30-14:15]

Poster Session¹ & Stand Tour² [14:15-14:45]
221 Hong Kong Alumni Room¹ Foyer²

Keynote [14:45-15:45]

A shifting landscape for science and society
Dr Adam Rutherford ^{UCL}
SB31 Denys Holland LT

A touch of relief [15:45-16:45]

Microfluidics for T-cell receptor
selection
Dr. Sam Au ^{Imperial}
SB31 Denys Holland LT

A neurological basis for the benefits of
affective touch: the tale of the c-tactile
afferent
Dr. Susannah Walker ^{IJMU}
Bentham House LG26

The scientific efficacy of
phytoaromatics and their utility
for memory and broader health
Dr. Mark Moss ^{Northumbria}
**124 Gideon Schreier Lecture
Theatre**

Light Break [16:45-17:00]

The Importance of Sleep: What happens in those hours [17:00-18:00]

MRI of the Brain's Cleaning System: Imaging Glymphatics
Dr Jack Wells ^{UCL}
Bentham House LG26

Light, Clocks and Sleep: Why artificial light matters for
healthy physiology and behaviour
Professor Stuart Peirson ^{Oxford}
SB31 Denys Holland LT

Circadian mechanisms regulating inflammatory and energy
metabolism converge on the liver
Professor David Ray ^{Oxford}
124 Gideon Schreier Lecture Theatre

Mysterious functions of sleep: insights from evolution
Dr. Giorgio Gilestro ^{Imperial}
LG17 Seminar Room

Day One Closing [18:05-18:15]

MRC Joint DTP Committee
SB31 Denys Holland LT

Day Two

Wednesday 12th July, 2023
Registration in the Foyer from 09:00
Breakfast in the Foyer from 09:30-10:00

Plenary [10:00-11:00]

Treatment of Cancer: where are we now?
Professor Charles Coombes ^{Imperial}
SB31 Denys Holland LT

Light Break [11:00-11:10]

Communicating Science [11:10-12:10]

Research that reaches: from analysis to audience

Chair: Freya Robb ^{Science Media Centre}

Dr Sarah Bailey ^{Bath}

Professor Lawrence Young ^{Warwick}

Dr. Clare Wilkinson ^{UWE}

SB31 Denys Holland LT

Scientific Podcasts

Ms. Hayley Dunning ^{Imperial}

Dr. Adam Rutherford ^{UCL}

Mr. Karl JC Byrne ^{LSHTM}

Ms. Carolina Soares ^{UCL}

Bentham House LG26

Scientific Stakeholders: Charity and Industry

Dr Ryan Payton ^{Oracle}

Mrs Katie Dabin ^{The Science Museum}

Dr. Caoimhe Twohig-Bennett ^{Epilepsy Research UK}

Dr Joanna Riddoch-Contreras ^{BNA, QMUL}

124 Gideon Schreier Lecture Theatre

Lunch [12:10-12:55]

Poster Session¹ & Stand Tour² [12:55-13:15]

221 Hong Kong Alumni Room¹ Foyer²

Modern Genetics and Cellular Imaging [13:15-14:15]

Insights into Modern Behavioural Genetics

Professor Robert Plomin ^{KCL}

SB31 Denys Holland LT

Understanding CRISPR-cas9

Dr. Sankari Nagarajan ^{Manchester}

Dr. Elisa Aguilar-Martinez ^{Manchester}

Bentham House LG26

3D genome organisation and cancer

Prof Juanma Vaquerizas ^{Imperial}

124 Gideon Schreier Lecture Theatre

Light Break [14:15-14:30]

Keynote [14:30-15:30]

Consciousness and questions of being

Dr Daniel Bor ^{Cambridge} and David Pearce

SB31 Denys Holland LT

Consciousness, cognition and sociality [15:30-16:30]

Genetic basis in the evolution of social behaviour in ants

Dr Yannick Wurm ^{QMUL}

SB31 Denys Holland LT

The neural mechanisms underlying conscious processing

Dr Emmanuel A Stamatakis ^{Cambridge}

Bentham House LG26

Conscious control: what are meditation and mindfulness, and how they can help in depression?

Sthiramanas ^{London Buddhist Centre}

Professor Thorsten Barnhofer ^{Surrey}

124 Gideon Schreier Lecture Theatre

Bodily changes across the lifespan [16:30-17:30]

Gut Feelings: Microbiome, brain & behaviour

Professor John Cryan ^{Cork}

SB31 Denys Holland LT

Antimicrobial insights: The evolution of MDR *E. coli* clones

Dr. Alan McNally ^{Birmingham}

Bentham House LG26

Immunology: Nutrition, and respiratory infections in athletes

Professor Lettie Bishop ^{Loughborough}

124 Gideon Schreier Lecture Theatre

Healthy ageing across the lifespan

Professor Sherif El-Khamisy ^{Sheffield}

Dr Carina Kern ^{UCL}

LG17 Seminar Room

Closing Announcements [~17:30-17:45]

MRC Joint DTP Committee

SB31 Denys Holland LT

Exhibition Stands, *Main staircase*

Sponsors of the MRC JDTP 2023 Symposium

The British Neuroscience Association

The British Neuroscience Association (BNA) is the largest UK organisation connecting, representing and promoting neuroscience and neuroscientists across the globe. With local groups across the country, the BNA brings together individuals, academics, industry, charities, policy makers, funders and wider society.



New England Biolabs (NEB)

New England Biolabs is a Certified B Corporation™ and recognized world leader in the discovery, development and commercialization of reagents for genomic research.



Exhibitors

Brain Insights: Editorial Opportunities

Part of the BNA's Bulletin, Brain Insights provides an opportunity for writers to hone their craft as part of a peer-reviewed public segment, with both on-line and in-print formats. Topics vary from nanorobotic applications in health to neurodegeneration and organoid models, cognition, memory and learning, bioethics and beyond! Meet the editors during the symposium and inquire about submitting!



Oracle for Research

Oracle for Research is the research-centric component of the wider technology giant, Oracle. Oracle for Research offers access to Oracle Cloud Infrastructure (OCI), a cloud platform offering extensive computing infrastructure for researchers as well as extensive technical support and guidance. Oracle for Research offers a range of Oracle Cloud credit grants to support academic research across all fields for PhD students all the way through to senior academics.



Gorilla Experiment Builder

Gorilla Experiment Builder is a cloud-based research platform that allows researchers and students to quickly and easily create and deploy behavioural (reaction-time) experiments online.



Avantor

Avantor® is a leading global provider of mission-critical products and services to customers in the biopharma, healthcare, education & government, and advanced technologies & applied materials industries. Their portfolio is used in various stages of research, development and production activities. Their global footprint enables them to serve more than 300,000 customer locations and access research laboratories and scientists in over 180 countries. They set science in motion to create a better world.



Breathing Space

Breathing Space is a community-focused mental health and well-being project. The project was borne from the desire to use our deep understanding of mindfulness and meditation, gained from decades' worth of experience, to help people with their mental health.

