

# PROGRAMME AT A GLANCE

All plenary sessions, special lectures, parallel symposia and parallel workshops will have live Q&A.  
All sessions will be accessible through the live auditorium  
Time zone: Glasgow, UK (GMT+1), British Summer time



Live session



Pre-recorded  
with live Q&A



Pre-recorded

Saturday 11 July 2020

## Mini-Conferences

08:00 - 11:30

## Technical Workshops

09:00 - 11:30

## Mini-Conferences

- MCo1 Behavioural neuroscience for the next decade: Why behaviour matters to brain science
- MCo2 Molecular mechanisms of cognitive impairments and intellectual disability
- MCo3 Multiscale, multimethod human brain imaging
- MCo5 Neuroscience applied and translational research
- MCo6 Sleep across the lifespan
- MCo7 A celebration of women in developmental neuroscience
- MCo8 Nicotine and the Developing Brain (SRNT)

## Technical Workshops

- Wo1 Optogenetics: from new tools to applications
- Wo2 Measuring the activity of individual neurons at a brain-wide scale
- Wo3 Glial interfaces: technology & methods to uncover the 4D glial role in brain function & dysfunction
- Wo4 Technology for achieving Drosophila whole brain connectomics

## Special Lectures

11:30 - 12:45

## EJN Special Feature

- SL01 Mammalian sleep, varying in space and time  
**Anita Luthi (CH)**  
At a glance at a face: early visual processing in young and older adults  
**Guillaume Rousset (UK)**

## Parallel Symposia

13:00 - 14:30

## Parallel Symposia

- S01 Chromatin regulation of transcriptional identity during neuronal development
- S02 From brain connectome to molecular synaptome: diversity of synapse formation and maintenance
- S03 Synthetic vision: new strategies for rescuing visual perception in degenerative blindness
- S04 Modulating and visualizing memory engrams in the rodent and human brain
- S05 The versatile tanycyte: a hypothalamic integrator of neuroendocrine functions and energy homeostasis
- S06 Interaction between the nervous system and the immune system in the CNS
- S07 Functional logic of neuromodulatory circuits in shaping behavior: bridging physiology and disease
- S08 Beyond Hebb: multi-scale computations in synaptic plasticity
- S43 Neural circuit mechanism of somatosensation
- S10 Role and regulation of axonal acto-myosin II machinery
- S14 Mitochondria as sensors and regulators of astroglial and neuronal functions
- S12 Sex differences and estrogen effects: implications for neuropsychiatric disorders

## Special interest Event

15:00 - 16:30

## SiE01 The Brain Debate

Speakers & discussants:  
Angela Roberts (UK) Guo-li Ming (US)  
Christian Lüscher (CH) Tracy Bale (US)  
Emre Yaksi (NO) Irene Tracey (UK)  
Gilles Laurent (DE) Peter Dayan (DE)  
**Moderator:** Trevor Robbins (UK)

## Opening Ceremony and Fred Kavli Opening Plenary Lecture

16:30 - 18:30

## Opening Ceremony and welcome

- PL01 **Fred Kavli Opening lecture**  
Differential resilience to perturbation of circuits with similar performance.  
**Eve Marder (US)**

\*For the most up-to-date programme please check the website interactive programme on the FENS 2020

**Virtual Forum website.** ✨

Sunday 12 July 2020

<b>Plenary Lecture</b> 08:30 - 09:30	<b>Plenary Lecture</b> PLo2 Local protein synthesis in neurons <b>Erin Schuman (DE)</b>	
<b>Special interest Events</b> 09:30 - 10:30	<b>Special interest Events</b> SiEo2 How society-owned journals handle your paper  SiEo3 Credibility in Neuroscience  SiE13 Animal experimentation and the search for alternatives - current developments and future perspectives  SiE12 ALBA-FKNE panel discussion: How to negotiate to get what you need  BKS01 <b>Bridging The Knowledge Session</b> Miltenyi Biotec - Holistic whole brain imaging: from easy sample preparation to high-resolution light sheet microscopy 	
<b>Poster Sessions</b> 10:30 - 12:00	<b>Poster authors in attendance</b> Thematic poster session ✨	
<b>Special Lectures</b> 12:00 - 12:45	<b>Special Lectures</b> SLo2 <b>The Brain Prize Lecture 2019</b> (11:30 - 12:45) CADASIL: a clinical model of ischemic small vessel disease <b>Hugues Chabriat (FR)</b> Pathogenesis of small vessel diseases of the Brain: new insights from genetic models. <b>Anne Joutel (FR)</b> Inherited cerebral small vessel disease genomics <b>Elisabeth Tournier-Lasserre (FR)</b> SLo3 <b>IBRO - Kemali Prize Lecture</b> (12:00 - 12:45) From pecking order to Ketamine – Neural mechanisms of social and emotional behaviors <b>Hailan Hu (CN)</b>	
<b>Parallel Symposia</b> 13:00 - 14:30	<b>Parallel Symposia</b> S13 Epigenetics in neurodevelopmental disorders role of chromatin remodelling and DNA methylation S11 The transience of memory: mechanisms underlying memory destabilisation and updating S15 Grid cell metrics and beyond: from network interactions to non-periodic firing S16 50 years of barrel cortex: linking structure and function S17 The regulation of proteome state in neuronal development S24 How the brain holds its horses: different models of inhibitory control implementation S19 Teaching signals for circuit plasticity and associative learning S20 From synapse to nucleus and back: activity-driven gene expression in plasticity and brain disorders S21 Conserved functions of serotonergic circuits in diverse animals S22 Sleep, stress and obesity: untangling the link S23 Oxytocin and social behavior from animal models to clinical applications: progress and challenges	
<b>Poster Sessions</b> 14:30 - 16:00	<b>Poster authors in attendance</b> Thematic poster session ✨	
<b>Plenary Lecture</b> 16:00 - 17:00	<b>Plenary Lecture</b> PLo3 The amygdala and memory: recalling the past, imaging the future <b>Sheena Josselyn (CA)</b>	
<b>Bridging Knowledge Session</b> 17:00 - 18:30	<b>Bridging The Knowledge Session</b> BKS02 Merck: Two novel technologies for neuroscience research: specificity and affinity of recombinant antibodies & nucleic acid isolation method	
<b>Networking Events</b> 18:45 - 20:45	<b>Networking Events</b> NEo4 International Brain Initiative: Facilitating global neuroscience engagement NEo3 Hellenic Society for Neuroscience Social	

## Monday 13 July 2020

<b>Plenary Lecture</b> 08:30 - 09:30	<b>Plenary Lecture</b>  PL04 How development scaffolds adult hippocampal dynamics <b>Rosa Cossart (FR)</b>
<b>Special interest Events</b> 09:30 - 10:30	<b>Special interest Events</b> SiE06 Using Twitter to communicate in your science life  SiE07 Neuroscience career paths  SiE18 Global Research Collaboration 
<b>Poster Sessions</b> 10:30 - 12:00	<b>Poster authors in attendance</b> Thematic poster session ✨
<b>Special Lectures</b> 12:00 - 12:45	<b>Special Lectures</b> SL04 <b>EBBS / Behavioural Brain Research Lecture</b>  Prefrontal circuits related to anhedonia and anxiety <b>Angela Roberts (UK)</b> SL05 <b>EDAB / Max Cowan Special Lecture</b>  Synapses lost and found: developmental critical periods and Alzheimer's Disease. <b>Carla Shatz (US)</b> SL06 <b>Boehringer-Ingelheim / FENS Research Award</b>  Epigenetic mechanisms in memory formation <b>Johannes Gräff (CH)</b>
<b>Parallel Symposia</b> 13:00 - 14:30	<b>Parallel Symposia</b>  S18 Metabolic and epigenetic rewiring of neuroimmune interactions S25 GABA-B receptors as therapeutic targets: travelling from synapse to behaviour to... Ithaca S26 Genetic, developmental and circuit basis of sexually dimorphic behaviour S27 Neuron-glia metabolic coupling S28 Cortical plasticity across senses S29 HCN pacemaker channels dysfunction linked to neurological pathologies S30 The flexible use of multisensory information for behavior: models, neurons and neuroimaging S31 Neural mechanisms underlying social interactions in human and non-human primates S32 The eternal sunshine of the spotless mind: recent advances to reduce fear and addictive memories S35 Neuromodulatory mechanisms of behavioral control S39 The dentate gyrus: mechanisms of memory traces
<b>Poster Sessions</b> 14:30 - 16:00	<b>Poster authors in attendance</b> Thematic poster session ✨
<b>Plenary Lecture</b> 16:00 - 17:00	<b>Presidential Lecture</b>  PL05 Neural mechanisms of environmental risk for psychiatric disorders <b>Andreas Meyer-Lindenberg (DE)</b>
<b>Bridging Knowledge Session</b> 17:00 - 18:30	<b>Bridging The Knowledge Session</b>  BKS03 <b>Boehringer Ingelheim - Translational tasks of cognitive flexibility</b>
<b>Networking Events</b> 18:45 - 20:45	NE08 <b>Networking Event (18:45 - 21:30)</b>  100 years of the Instituto Cajal NE12 <b>Networking Event (18:45 - 20:30)</b>  Whisky, Glia and Energy Metabolism

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## Tuesday 14 July 2020

<b>Plenary Lecture</b> 08:30 - 09:30	<b>PLo7 The ERA-NET NEURON Lecture</b> Early cortical wiring and neuroimmune interactions <b>Sonia Garel (FR)</b>
<b>Special interest Events</b> 09:30 - 10:30	<b>Special interest Events</b>  SiE10 Improving openness in animal research within the European neuroscience community SiE05 Towards an environmentally friendly model for life sciences SiE09 NENS Graduate School Fair & Best Students' Posters SiE08 SciComm SOS: public engagement and communication workshops
<b>Poster Sessions</b> 10:30 - 12:00	<b>Poster authors in attendance</b> Thematic poster session ✨
<b>Special Lectures</b> 12:00 - 12:45	<b>Special Lectures</b>  SL07 <b>Eric Kandel Prize Lecture</b> Computation in neuron-glia circuits for controlling behavioral state <b>Misha Ahrens (US)</b>  SL08 <b>Host Society Special Lecture</b> Neuron-Glia interactions in synapse degeneration in Alzheimer's Disease <b>Tara Spires-Jones (UK)</b>  SL09 <b>ERA-Net NEURON / Excellent Papers in Neuroscience Award Lecture</b> Autism-like phenotype and risk gene mRNA deadenylation by CPEB4 mis-splicing <b>Alberto Parras Rodriguez (CH)</b>
<b>Parallel Symposia</b> 13:00 - 14:30	<b>Parallel Symposia</b>  S33 Molecular mechanisms controlling the size of the cerebral cortex S36 Single neuron firing underlying cognitive processing in humans S37 RNA-protein interplay and stress granules: key hotspots for the biology and disease of the brain S38 Neural variability: origin and function S34 The multisensory rodent S40 Spontaneous activity in sensory systems development and plasticity S41 Small, yet important: how hippocampal CA2 shapes our memory S42 Astroglial networks in regulating sensory function and plasticity S09 Inhibitory circuits for learning and brain plasticity in animals and humans S47 From synaptic dysfunction to treatment strategies in neurodevelopmental disorders S45 Dopaminergic and serotonergic basis of motivation across species, methods, health and disease
<b>Poster Sessions</b> 14:30 - 16:00	<b>Poster authors in attendance</b> Thematic poster session ✨
<b>Plenary Lecture</b> 16:00 - 17:00	<b>PLo6 Discovering, reinforcing and refining actions</b> <b>Rui Costa (US)</b>
<b>Bridging Knowledge Session</b> 17:00 - 19:30	<b>Bridging The Knowledge Session</b> BKS04 The Brain Forum Debates

## Wednesday 15 July 2020

<b>Plenary Lecture</b> 08:30 - 09:30	<b>PL08 The Tianqiao and Chrissy Chen Institute Lecture</b> Sleep's role in memory consolidation <b>Jan Born (DE)</b>
<b>Special interest Events</b> 09:30 - 10:30	<b>Special interest Events</b> SiE14 Starting and mid-career PI hurdles (I) SiE15 Research Funding in Europe Post-COVID-19 SiE16 Don't leave me now play SiE17 21 <sup>st</sup> century global neuroscience collaboration - sculpting a FAIR and Open landscape SiE19 A path to therapies: key questions in dementia research hosted by the UK Dementia Research Institute
<b>Poster Sessions</b> 10:30 - 12:00	<b>Poster authors in attendance</b> Thematic poster session ✨
<b>Special Lectures</b> 12:00 - 12:45	<b>Special Lectures</b> SL10 <b>FENS-EJN Awards Lectures (11:30 - 12:45)</b> The synaptome: an epic journey in time and space <b>Seth Grant (UK)</b> Prefrontal circuits for decision making <b>Laurence Hunt (UK)</b> SL11 <b>EDAB - Lecture on Neuroethics (12:00 - 12:45)</b> Non-human primate models for neurobiology and biomedicine <b>Mu-Ming Poo (CN)</b>
<b>Parallel Symposia</b> 13:00 - 14:30	<b>Parallel Symposia</b> S46 Subventricular zone neurogenesis: novel mechanisms and migration patterns S44 Neuronal circuit dissection in the central auditory system S48 Genetic tools in rodents and primates: new frontiers S49 Insights into brain architecture and behaviour from complete connectomes S50 Local translational control in neural circuit development, synaptic plasticity and memory S51 The time for serotonin has come: modulation of GABA in development, plasticity, cognition and disease S52 Flexible navigation and the insect central complex: insights from a multifaceted brain region S53 Understanding memory networks: unravelling hippocampal-cortico-thalamic interactions S54 Brain-body interactions: crosstalk between the brain and other organs in physiology and disease S55 Parvalbumin cells in neuropsychiatric disorders: genetics, metabolism and extracellular environment S56 Gene-environment interactions modulating brain ageing, neurodegeneration and dementia
<b>Plenary Lecture</b> 15:00 - 16:00	<b>The Hertie Foundation Closing Lecture</b> <b>PL09</b> New approaches to studying intact brain structure and function <b>Karl Deisseroth (US)</b>

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