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

Saturday 11 July 2020

Mini-Conferences (08:00 - 11:30)
- MC01 Behavioural neuroscience for the next decade: Why behaviour matters to brain science
- MC02 Molecular mechanisms of cognitive impairments and intellectual disability
- MC03 Multiscale, multimethod human brain imaging
- MC05 Neuroscience applied and translational research
- MC06 Sleep across the lifespan
- MC07 A celebration of women in developmental neuroscience
- MC08 Nicotine and the Developing Brain (SRNT)

Technical Workshops (09:00 - 11:30)
- W01 Optogenetics: from new tools to applications
- W02 Measuring the activity of individual neurons at a brain-wide scale
- W03 Glial interfaces: technology & methods to uncover the 4D glial role in brain function & dysfunction
- W04 Technology for achieving Drosophila whole brain connectomics

Special Lectures (11:30 - 12:45)
- 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 Rousselet (UK)

Parallel Symposia (13:00 - 14:30)
- 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)
- SE01 The Brain Debate
  - Speakers & discussants:
    - Angela Roberts (UK)  Guo-li Ming (US)
    - Christian Lüscher (CH)  Tracey 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)
- PL01 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

#### Plenary Lecture
08:30 - 09:30

<table>
<thead>
<tr>
<th>PL02</th>
<th>Local protein synthesis in neurons</th>
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<tbody>
<tr>
<td>Erin Schuman (DE)</td>
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#### Special interest Events
09:30 - 10:30

<table>
<thead>
<tr>
<th>SiE02</th>
<th>How society-owned journals handle your paper</th>
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<tbody>
<tr>
<td>SiE03</td>
<td>Credibility in Neuroscience</td>
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<tr>
<td>SiE12</td>
<td>ALBA-FKNE panel discussion: How to negotiate to get what you need</td>
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<tr>
<td>SiE13</td>
<td>Animal experimentation and the search for alternatives - current developments and future perspectives</td>
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#### Poster Sessions
10:30 - 12:00

<table>
<thead>
<tr>
<th>Poster authors in attendance</th>
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<tbody>
<tr>
<td>Thematic poster session</td>
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#### Special Lectures
12:00 - 12:45

<table>
<thead>
<tr>
<th>SL02</th>
<th>The Brain Prize Lecture 2019 (11:30 - 12:45)</th>
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<tbody>
<tr>
<td>CADASIL: a clinical model of ischemic small vessel disease</td>
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<tr>
<td>Hugues Chabriat (FR)</td>
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<tr>
<td>Pathogenesis of small vessel diseases of the Brain: new insights from genetic models.</td>
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<tr>
<td>Anne Joutel (FR)</td>
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<tr>
<td>Inherited cerebral small vessel disease genomics</td>
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<td>Elisabeth Tournier-Lasserve (FR)</td>
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<tr>
<td>SL03</td>
<td>IBRO - Kemali Prize Lecture (12:00 - 12:45)</td>
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<tr>
<td>From pecking order to Ketamine – Neural mechanisms of social and emotional behaviors</td>
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<tr>
<td>Hailan Hu (CN)</td>
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#### Parallel Symposia
13:00 - 14:30

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| S13 | Epigenetics in neurodevelopmental disorders role of chromatin remodelling and DNA methylation |
| S11 | The transience of memory: mechanisms underlying memory destabilisation and updating |
| S16 | 50 years of barrel cortex: linking structure and function |
| S15 | Grid cell metrics and beyond: from network interactions to non-periodic firing |
| 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 |

#### Poster Sessions
14:30 - 16:00

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<tbody>
<tr>
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#### Plenary Lecture
16:00 - 17:00

<table>
<thead>
<tr>
<th>PL03</th>
<th>The amygdala and memory: recalling the past, imaging the future</th>
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<tr>
<td>Sheena Josselyn (CA)</td>
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#### Bridging Knowledge Session
17:00 - 18:30

<table>
<thead>
<tr>
<th>BKS01</th>
<th>Bridging The Knowledge Session</th>
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<tbody>
<tr>
<td>Merck: Two novel technologies for neuroscience research: specificity and affinity of recombinant antibodies &amp; nucleic acid isolation method</td>
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#### Networking Events
18:45 - 20:45

<table>
<thead>
<tr>
<th>NE03</th>
<th>Hellenic Society for Neuroscience Social</th>
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<tbody>
<tr>
<td>NE04</td>
<td>International Brain Initiative: Facilitating global neuroscience engagement</td>
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www.fens.org/2020
### Monday 13 July 2020

#### Plenary Lecture
08:30 - 09:30

**Plenary Lecture**

**PL04** How development scaffolds adult hippocampal dynamics  
*Rosa Cossart (FR)*

#### Special interest Events
09:30 - 10:30

**Special interest Events**

**SiE06** Using Twitter to communicate in your science life  
**SiE07** Neuroscience career paths  
**SiE18** Global Research Collaboration

#### Poster Sessions
10:30 - 12:00

**Poster authors in attendance**

**Thematic poster session**

#### Special Lectures
12:00 - 12:45

**Special Lectures**

**SL04** EBBS / Behavioural Brain Research Lecture  
Prefrontal circuits related to anhedonia and anxiety  
*Angela Roberts (UK)*

**SL05** EDAB / Max Cowan Special Lecture  
Synapses lost and found: developmental critical periods and Alzheimer’s Disease.  
*Carla Shatz (US)*

**SL06** Boehringer-Ingelheim / FENS Research Award  
Epigenetic mechanisms in memory formation  
*Johannes Gräff (CH)*

#### Parallel Symposia
13:00 - 14:30

**Parallel Symposia**

**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

#### Plenary Lecture
16:00 - 17:00

**Presidential Lecture**

**PL05** Neural mechanisms of environmental risk for psychiatric disorders  
*Andreas Meyer-Lindenberg (DE)*

#### Bridging Knowledge Session
17:00 - 18:30

**BKS03** Boehringer Ingelheim - Translational tasks of cognitive flexibility

#### Networking Events
18:45 - 20:45

**Networking Event (18:45 - 21:30)**
100 years of the Instituto Cajal

**Networking Event (18:45 - 20:30)**
Whisky, Glia and Energy Metabolism

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*For the most up-to-date programme please check the website interactive programme on the FENS 2020 Virtual Forum website.*
### Tuesday 14 July 2020

#### Plenary Lecture
08:30 - 09:30

**PL07 The ERA-NET NEURON Lecture**  
Early cortical wiring and neuroimmune interactions  
*Sonia Garel (FR)*

#### Special interest Events
09:30 - 10:30

**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

#### Poster Sessions
10:30 - 12:00

**Poster authors in attendance**  
Thematic poster session

#### Special Lectures
12:00 - 12:45

**SL07** Eric Kandel Prize Lecture  
Computation in neuron-glia circuits for controlling behavioral state  
*Misha Ahrens (US)*

**SL08** Host Society Special Lecture  
Neuron-Glia interactions in synapse degeneration in Alzheimer’s Disease  
*Tara Spires-Jones (UK)*

**SL09** ERA-Net NEURON / Excellent Papers in Neuroscience Award Lecture  
Autism-like phenotype and risk gene mRNA deadenylation by CPEB4 mis-splicing  
*Alberto Parras Rodriguez (CH)*

#### Parallel Symposia
13:00 - 14:30

**Parallel Symposia**

**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

#### Plenary Lecture
16:00 - 17:00

**PL06** Discovering, reinforcing and refining actions  
*Rui Costa (US)*

#### Bridging Knowledge Session
17:00 - 19:30

**BKS04** The Brain Forum Debates
## Wednesday 15 July 2020

### Plenary Lecture
**PL08** The Tianqiao and Chrissy Chen Institute Lecture
Sleep’s role in memory consolidation
Jan Born (DE)

### Special interest Events
**SIE14** Starting and mid-career PI hurdles (I)
**SIE15** Research Funding in Europe Post-COVID-19
**SIE16** Don’t leave me now play
**SIE17** 21st 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

### Poster Sessions
**Poster authors in attendance**
Thematic poster session

### Special Lectures
**SL10** FENS-EJN Awards Lectures (11:30 - 12:45)
The synaptome: an epic journey in time and space
Seth Grant (UK)
Prefrontal circuits for decision making
Laurence Hunt (UK)

**SL11** EDAB - Lecture on Neuroethics (12:00 - 12:45)
Non-human primate models for neurobiology and biomedicine
Mu-Ming Poo (CN)

### Parallel Symposia
**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

### Plenary Lecture
**PL09** The Hertie Foundation Closing Lecture
New approaches to studying intact brain structure and function
Karl Deisseroth (US)

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