THE INTERNATIONAL BNA2027 FESTIVAL OF NEUROSCIENCE

MONDAY
26
APRIL 2027

09:00 — PLENARY 1 – PROFESSOR MADELEINE LOWERY
Next Generation Deep brain stimulation for Parkinson's disease: Modelling, Neural Dynamics and Closed-loop Control

09:50
- S1: From Bench to Breakthrough: Translating Neurodegeneration Research into Treatment
- S2: Neural Organoids
- S3: From Circuits to Clinic: Causal Mechanisms in Mental Health
- S4: Building interdisciplinary project teams
- S5: TBC

11:30 — BREAK / SILENT SYMPOSIUM 1 / POSTER PREVIEW

12:05 — PLENARY 2 – PROFESSOR EMILY SENA, PROFESSOR RICHARD BETHLEHEM AND PROFESSOR SERGIO DELLA SALA
Desert Island Papers

12:50 — LUNCH / SILENT SYMPOSIUM 2 | CAREERS ZONE

13:50 — POSTERS – SESSION 1 | WiN UK – Whose brain counts?

15:20
- S6: The Future for Diagnosis of Neurodegenerative Diseases
- S7: From Signal to Evidence: Teaching experimental rigour, reproducibility and scientific reasoning through hands-on neuroscience
- S8: The UK Consortium for Preclinical Psychiatry Research (UK CPPR) – how can we address key challenges for preclinical neuroscience research?
- S9: Better Together: Strengthening Partnerships Between CROs and Publicly Funded Researchers
- S10: TBC

17:05 — PLENARY 3 – PROFESSOR HENNE HOLSTEGE
Decoding natural resilience against cognitive decline: what can we learn from cognitively healthy centenarians?

18:00 — SATELLITE SESSION – MILTENYI BIOTECH

19:30 — SOCIAL EVENING – THE NORTHERN WHIG
Combining historic 19th-century charm with a stylish, modern vibe, award-winning cocktails, delicious local bites, and the perfect atmosphere to continue first day Festival conversations with fellow attendees.

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TUESDAY
27
APRIL 2027

09:00 — PLENARY 4 – PROFESSOR DIANE LIPSCOMBE
Forms and Functions of Calcium Ion Channels in Health and Disease

09:50

- S11: TBC
- S12: Advances in preclinical development of therapies in Parkinson's disease
- S13: Function and Failure of Astrocytes in Brain Physiology
- S14: The anxious mind: an intersection of cognition, computation and translation
- S15: TBC

11:30 — BREAK / SILENT SYMPOSIUM 3 / POSTER PREVIEW

12:05 — PLENARY 5 – PROFESSOR PAUL EDISON, DR SHEREEN NIZARI AND DR ANNA SECHER
Do GLP-1 receptor agonists alleviate neurodegenerative disease?

12:50

- LUNCH / SILENT SYMPOSIUM 4
- CAREERS ZONE
- BNA Annual General Meeting

13:50 — POSTERS – SESSION 2

15:20

- S16: Industry Session – Roche Diagnostics
- S17: Convergent synaptic mechanisms across Fragile X, 15q duplication, and neurodevelopmental disorders
- S18: Emerging genomic programmes shaping BBB function in neurodegeneration and psychiatric disease
- S19: Integrating Environment, Technology and Metadata to Enhance Animal Welfare and Research Quality
- S20: Higher cortical functions in non human primates

17:05 — PLENARY 6 – PROFESSOR MATTHEW RUSHWORTH
Mechanisms for learning and inference in prefrontal cortex and hippocampus

18:00 — SATELLITE SESSION – ROCHE DIAGNOSTICS

19:30 — GALA DINNER – TITANIC MUSEUM
Enjoy an unforgettable evening of fine dining, entertainment and networking in one of Belfast's most iconic venues. Celebrate BNA2027 in style, surrounded by fellow delegates, colleagues and friends.

THE INTERNATIONAL

BNA2027

FESTIVAL OF NEUROSCIENCE

WEDNESDAY

28

APRIL 2027

09:00 **PLENARY 7 – PROFESSOR MOOTAZ SALMAN**
Defining mechanisms of bloodbrain barrier dysfunction in neurodegenerative diseases using advanced humanised in vitro models

09:50
- S21: New Technologies and Emerging Insights in Neuropathology of Neurodegenerative Disease
- S22: The NeuroAI frontier: balancing innovation, ethics and policy
- S23: Women's Brain Health
- S24: TBC
- S25: Cortico-cerebellar systems

11:30 BREAK / SILENT SYMPOSIUM 5 / POSTER PREVIEW

12:00
- POSTERS – SESSION 3
- CAREERS ZONE
- LUNCH

14:00
- S26: Neural determinants of sarcopenia
- S27: TBC
- S28: Organoids in Neurovascular Research: Promise, Pitfalls and Physiological Relevance
- S29: Credibility in Neuroscience
- S30: Building Healthy Brains: Nutritional Influences on Neuroendocrine Development, Function and Lifelong Health

15:45 **PLENARY 8 – PROFESSOR MATTEO CARANDINI**
The odds of a decision

16:30 CLOSING WORDS
Professor Julie Williams