



PROGRAMME

NEUROSCIENCE RESEARCH DAY

AT A GLANCE

FROM MOLECULES TO MIND

9:00 - 9:30: REGISTRATION

9:30 - 11:00: MEMORY, LEARNING, AND HABIT FORMATION: FROM BRAIN TO BEHAVIOUR (KNOWLEDGE EXCHANGE)

- Cliona O'Doherty: Hierarchical correspondence between deep neural networks and emerging representations in the infant ventral visual stream.
- Harvey McCone: Static and dynamic decision bound adjustments during continuous monitoring for sensory targets.
- Andrea Muñoz Zamora: Cold sensitive memory engrams control whole-body metabolism.
- **Dr. Márcia Aranha**: Contextual control of habituation.
- **Dr. Sharon Chi Tak Lee**: Bringing Precision in Psychiatry (PIP) online: a large-scale internet-based investigation of self-report and cognitive predictors of response to depression treatment.
- Anna Marie Rosická: Modifiable dementia risk factors associated with objective and subjective cognition.

11:00 - 11:45: COFFEE BREAK & POSTER SESSION

11:45 - 13:00: EMERGING INVESTIGATORS SESSION (TERCENTENARY HALL)

- Dr. Anna Truzzi: Intrinsic timescales in the infant brain: Origins and longitudinal development.
- **Dr. Giovanni Di Liberto**: Investigating auditory cognition with natural speech and music.
- Dr. Roisin McMackin: Measuring the mind Harnessing EEG to examine cognitive network impairment.
- **Dr. Nengwei Hu:** Age and activity dependent Aβ-tau interactions.
- Dr. Claire Howlin: Designing scientific research to examine creative processes: striking the balance between creative approaches, scientific rigour, and inclusivity.





13:00 - 14:00: LUNCH BREAK & POSTER SESSION

14:00 - 15:30: NEUROINFLAMMATION AND BRAIN HEALTH (KNOWLEDGE EXCHANGE)

- **Dr. Gloria Vegliante**: Human TBI-generated tau leads to cognitive dysfunction and widespread tau pathology in wild-type but not tau knockout mice by intracerebral inoculation.
- **Ellie Noone**: Loss of Bmall in myeloid cells accelerates age-related migration of immune cells to the outer retina.
- Adina MacMahon Copas: Peripheral immune cells induce reactive astrocyte phenotype in human iPSC- derived astrocytes.
- Janeen Laabei: NOX2-mediated regulation of microglial NLRP3 inflammasome in Traumatic Brain Injury.
- Matthew McAuslan: β2 adrenergic agonist formoterol attenuates LPS-driven cognitive impairment in the delayed non-match to position task in male Wistar rats.
- **Dr. Clare Kelly**: What Neuroscientists Can Do About the Climate Emergency.

15:30 - 16:00: COFFEE BREAK & POSTER SESSION

16:00 - 17:00: PLENARY TALK (TERCENTENARY HALL)

Prof. Mani Ramaswami: Biological condensates in the brain: their roles in health and neurodegeneration.

17:00 - 18:30: WINE RECEPTION (KNOWLEDGE EXCHANGE)

SPECIAL THANKS TO THE FOLLOWING SPONSORS:

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