

**NUS-UCL Virtual Neurobiology Symposium**:

**Exploring collaborations and scientific synergies**

*2, 9 and 15July 2020*

**8:30 am – 12 pm (UK)**

**3:30 pm – 7 pm (Singapore)**

**DAY 1 -** **July 2nd, 2020**

8:30 – 9:00 am **Welcome Addresses**

8:30 – 8:45 am Welcome Address by UCL

8:45 – 9:00 am  ***Chen Tsuhan***

Deputy President (Research & Technology), National University Singapore

9:00 – 12:00 pm **Neurons and glia interaction in neurodegeneration**

Chair: Tuck Wah Soong and Gipi Schiavo

9:00 - 9:30 am***Soyon Hong*** (UK Dementia Research Institute at UCL)

 *Microglia, The Pruners Gone Rogue*

9:30 - 9:40 am *Discussion*

9:40 - 10:10 am***Barry Halliwell*** (National University Singapore)

 *Novel Anti-oxidants and Neurodegenerative Disease*

10:10 - 10:20 am *Discussion*

10:20 - 10:40 am **Break**

10:40 - 11:10 am ***Helene Plun-Favreau***(UCL Queen Square Institute of Neurology)

*Mitophagy, from genetics to biology, and back*

11:10 - 11:20 am *Discussion*

11:20 - 11:50 am***John Hardy***(UK Dementia Research Institute at UCL)

 *Genetic analysis of neurodegenerative diseases*

11:50 - 12:00 pm *Discussion*

12:00 pm **Closing Remarks Day 1**

 (Claudio Stern and Barry Halliwell)

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**DAY 2 -** **July 9th, 2020**

8:30 – 12:20 pm **The biology of neurodegeneration**

Chair: Barry Halliwell and John Hardy

8:30 - 9:00 am***Christopher Chen*** (National University Singapore)

 *Alzheimer's disease and vascular disease: bridging the gap*

9:00 - 9:10 am *Discussion*

9:10 - 9:40 am ***Karen Duff*** (UK Dementia Research Institute at UCL)

 *Pathological mechanisms in Alzheimer’s Disease*

9:40 - 9:50 am *Discussion*

9:50 - 10:20 am***Huilin Shao*** (National University Singapore)

*Biomarkers for AD*

10:20 - 10:30 am *Discussion*

10:30 - 11:00 am **Break**

11:00 - 11:30 am ***Vil Fernandes*** (UCL Biosciences)

*Glia use diverse strategies to coordinate neurogenesis across the developing brain*

11:30 - 11:40 am *Discussion*

11:40 - 12:10 pm ***John Chua*** (National University Singapore)

*Neuronal protein transport and mitochondria - common pathways but divergent crossroads during neuronal development and degeneration*

12:10 - 12:20 pm *Discussion*

12:20 pm **Closing Remarks Day 2**

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**DAY 3 -** **July 15th, 2020**

8:30 - 12:40 pm **Circuits and synaptic homeostasis**

Chair John Chua and Claudio Stern

8:30 - 9:00 am***Tuck Wah Soong*** (National University Singapore)

 *RNA editing of Cav1.3 Channels in Learning and Memory*

9:00 - 9:10 am *Discussion*

9:10 - 9:40 am ***Arantza Barrios*** (UCL Biosciences)

*Sex and plasticity*

9:40 - 9:50 am *Discussion*

9:50 - 10:20 am***Sreedharan Sajikumar*** (National University Singapore)

 *Age-related changes in hippocampal-dependent synaptic plasticity and memory mediated by p75 neurotrophin receptor*

10:20 - 10:30 am *Discussion*

10:30 - 11:00 am **Break**

11:00 - 11:30 am ***Rickie Patani*** (UCL Queen Square Institute of Neurology)

*Decoding molecular mechanisms in ALS using human stem cell models*

11:30 - 11:40 am *Discussion*

11:40 - 12:10 pm***Camilo Libedinsky*** (National University Singapore)

*Independent Activity Subspaces for Working Memory and Motor Preparation In the Primate Lateral Prefrontal Cortex*

12:10 - 12:20 pm *Discussion*

12:20 – 1:00 pm ***Conclusive Remarks and Next Steps***