



The 8th Neuroscience Ireland Conference

A Joint Meeting with the Biochemical Society Irish Area Section

*“Brain Disorders Across the Lifespan:
Translational Neuroscience From Molecule to Man”*

September 12th and 13th, 2013

Room G.05 Western Gateway Building

University College Cork



UCC
Coláiste na hOllscoile Corcaigh, Éire
University College Cork, Ireland



Cork NeuroScience Group
Integrating Clinical and Basic Research



Conference Programme

Day 1: Thursday 12th September

8:45-9:45	Registration, Tea & Coffee Foyer of Western Gateway Building
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9:45-10:00	Opening and Welcome Address Lecture theatre G.05, Western Gateway Building Professor John Higgins , Head of College of Medicine and Health, University College Cork
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Scientific Session 1: Protecting the Developing Brain

Chairs: David Henshall and Geraldine Boylan

10:00-10:30	S1.1 Pierre Gressens , Inserm U676 and Université Paris Diderot, Paris; Centre for the Developing Brain, KCL, London <i>"New insights on the role of inflammation in perinatal brain damage"</i>
10:30-10:45	S1.2 Lieve Desbonnet , University College Cork <i>"Microbiota is essential for social development in the mouse"</i> [Oral presentation selected from abstracts]
10:45-11:25	S1.3 Yehezkel Ben-Ari , INMED, INSERM U 901, Marseille, France <i>"Understanding and treating neurological and psychiatric disorders is conditioned by a better understanding of developmental processes"</i>
11:25-11:45	Coffee Break & Poster Viewing
11:45-12:00	S1.4 Daniel Shanley , Trinity College Dublin <i>"Sema6a regulates dispersal of Cajal-Retzius cells en route to the developing dentate gyrus"</i> [Oral presentation selected from abstracts]
12:00-12:30	S1.5 Susan Vannucci , Weill Cornell Medical College, New York <i>"Neonatal encephalopathy: preclinical studies in neuroprotection"</i>

Poster Data Blitz Session I

Lecture theatre G.05, Western Gateway Building

Chair: Ciara Greene

12:30-13:00	P1.10 P1.20 P1.25 P1.29 P1.54 P1.55	Danielle Corbett, University College Dublin Tobias Engel, Royal College of Surgeons in Ireland, Jacqueline Fitzgerald, Trinity College Dublin Bruno Godinho, University College Cork Ann Marie Looney, CUMH and University College Cork Claire McDonald, Trinity College Dublin
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13:00-14:45	Lunch and Poster Session I (Foyer of Western Gateway Building) Presenters in Attendance 13:45-14:45
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Scientific Session 2: Stress and Neuroplasticity – Towards a translational neuroscience of Anxiety and Depression

Chairs: John Cryan and Yvonne Nolan

14:45-15:15	S2.1 Eero Castren , University of Helsinki, Finland <i>“Neurotrophins and neuronal plasticity in the antidepressant drug action”</i>
15:15-15:45	S2.2 Nicolas Singewald , University of Innsbruck, Austria <i>“Novel approaches to promote long-term rescue of fear extinction deficits”</i>
15:45-16:05	S2.3 Michelle Roche , National University of Ireland, Galway <i>“Endocannabinoid modulation of neuroinflammation: implications for stress-related disorders”</i>
16:05-16:20	S2.4 Karen Ryan , Trinity College Dublin <i>“The hippocampal mirnome in the chronic corticosterone model of depression”</i> [Oral presentation selected from abstracts]
16:20-16:50	S2.5 Carmine Pariante , Institute of Psychiatry, King’s College London, UK <i>“Depression during pregnancy: molecular and psychosocial effects on the next generation”</i>

16:50-17:10	Coffee Break
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Scientific Session 3: Neuroscience Ireland Awards

Chair: Paul Young

Awards presented by Richard Roche, President Neuroscience Ireland

17:10-17:30	S3.1 Neuroscience Ireland Early Career Investigator Award Lecture 2013 Recipient: Eric Downer , University College Cork <i>“Targeting toll-like receptors in neuroinflammation: in search of a therapeutic high”</i>
17:30-18:05	S3.2 Tom Connor Distinguished Researcher Award Lecture 2013 Recipient: Marina Lynch , Trinity College Dublin <i>“Mechanistic link between microglial activation and age-related changes in synaptic plasticity – focus on a model of Alzheimer’s disease”</i>

18:20	Bus to Conference Dinner at the Old Midleton Distillery, Midleton <ul style="list-style-type: none"> • Leaving from car park outside Western Gateway Building • Returning by approx 23:30, with stops in the city centre and at the River Lee Hotel
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Day 2: Friday 13th September

**Scientific Session 4: Alzheimer's and Parkinson's Disease:
mechanisms, biomarkers and treatments**

Lecture theatre G.05, Western Gateway Building

Chairs: Cora O'Neill and Sean O'Sullivan

Sponsored by:



9:00-9:30	S4.1 Rohan de Silva , University College London, UK <i>"Tau-based CSF biomarkers in Alzheimer's disease and Parkinsonian disorders."</i>
9:30-10:00	S4.2 David Blum , INSERM UMR837, University of Lille, France <i>"Linking environmental factors to Tau pathology: implication for Alzheimer's Disease therapeutics"</i>
10:00-10:15	S4.3 Jyoti Chhibber , University College Cork <i>"Regulated intramembrane proteolysis of tnfr-1 and defective tnfr-alpha-responsiveness in presenilin 2 knockout mice"</i> [Oral presentation selected from abstracts]
10:15-10:40	S4.4 Christian Holscher , Lancaster University, UK <i>"Drugs developed to treat type 2 diabetes show protective effects in Parkinson's and Alzheimer's disease"</i>
10:45-11:10	Coffee Break and Poster Viewing
11:10-11:30	S4.5 Caroline Herron , University College Dublin <i>"Simvastatin treatment preserves synaptic plasticity in appswe.ps1de9 mice"</i>
11:30-12:00	S4.6 M Angela Cenci , Lund University, Sweden <i>"L-DOPA-induced dyskinesia in Parkinson's disease: experimental findings and therapeutic targets"</i>

Poster Data Blitz Session II

Lecture theatre G.05, Western Gateway Building

Chair: Aideen Sullivan

12:00-12:30	P2.04 P2.05 P2.27 P2.50 P2.53 P2.54	Ruth Concannon, NUI, Galway Aileen Cronin, NUI, Galway James O'Sullivan, Trinity College Dublin Elizabeth Walshe, NUI, Maynooth Deirdre Hoban, NUI, Galway Elizabeth Kehoe, Trinity College Dublin
12:30-15:00	Lunch and Poster Session II (Foyer of Western Gateway Building) Presenters in Attendance 13:00-14:00	
12:30-13:30	Neuroscience Ireland Committee Meeting in Room 2.26 WGB	

Workshop	
Lecture theatre G.05, Western Gateway Building	
14:00-15:00	<p>"How can Neuroscientists explain the impact of their research to maximize funding?"</p> <p>Panel:</p> <ul style="list-style-type: none"> • Richard Roche, President Neuroscience Ireland, President Irish Brain Council [Chair] • Manus Ward, Scientific Programme Manager, Science Foundation Ireland • Caitriona Creely, Programme Manager, Clinical and Applied Biomedical Research, Health Research Board • David O'Connell, Director of Research Support Services, University College Cork

Scientific Session 5: Cognition in Health and Disease	
<i>Chair: Redmond O'Connell</i>	
15:00-15:30	<p>S5.1 Simon Kelly, The City College of New York, USA <i>"A window onto basic elements of information processing in the human brain: New paradigms and their clinical potential"</i></p>
15:30-15:50	<p>S5.2 Ciara Greene, University College Cork, Ireland <i>"Functional connectivity between ventral and dorsal frontoparietal networks underlies top-down and bottom-up sources of visual distraction"</i></p>
15:50-16:20	<p>S5.3 Edmund Lalor, Trinity College Dublin, Ireland <i>"Measuring the effects of attention and visual input on the representation of natural speech in auditory cortex using EEG"</i></p>
16:20-16:35	<p>S5.4 Cathy Scanlon, National University of Ireland Galway <i>"Identification of first episode psychosis patients using machine learning classification of structural MRI"</i> [Oral presentation selected from abstracts]</p>
16:35-17:00	<p>S5.5 Richard Roche, National University of Ireland Maynooth <i>"Cognition, attention and locomotion following stroke: assessment, impairment and recovery"</i></p>

17:00-17:15	Neuroscience Ireland AGM
17:15-17:30	Prizes for Posters, Poster Data Blitz and Oral Presentations selected from Abstracts Presented by: Gerard O'Keefe and Eoin Fleming
17:30	Close of Meeting

*******Satellite Seminar (Room G.05, 12:30, Fri 13th September)*******

Robert Friedland, Univ. Louisville, USA *"Does the microbial metagenome influence neurodegeneration through molecular mimicry?"*

This seminar, hosted by the Alimentary Pharmabiotic Centre, UCC, is being held in the conference lecture theatre to facilitate conference delegates who are interested in attending.