

Programme

Wednesday, 18th August	
10.00am–11.15am	Symposium Registration and Morning Tea Pugin Hall, St. Patrick's College, NUIM South Campus
Morning Session joint with IWSB Callan Hall, South Campus, NUI Maynooth	
11.15am–12.15pm	“Long-Lasting Therapeutic Effects of Desynchronizing Brain Stimulation” Prof. Peter Tass <i>Institute of Neuroscience and Medicine, Jülich</i>
12.15pm–12.30pm	Discussion and Questions
12.30pm–12.45pm	Closing for 3 rd International Workshop on Systems Biology
12.45pm–1.45pm	Joint Symposium and Workshop Lunch Pugin Hall, St. Patrick's College, NUIM South Campus
Afternoon Session Lecture Theatre, The Hamilton Institute, NUI Maynooth North Campus	
2.15pm–2.30pm	Symposium Official Opening and Remarks Mr. Michael Kelly <i>Trustee Board, Hilde Ulrichs Foundation Parkinson Research</i>
Session 1: System Modelling and Analysis of Parkinson's Disease	
2.30pm–3.30pm	“Systems approaches to Parkinson's disease” Prof. Peter Wellstead <i>The Hamilton Institute, NUI Maynooth</i>
3.30pm–4.00pm	Afternoon Tea
4.00pm–5.00pm	“Closing the loop on Parkinson's disease etiology: a modelling study of the feedback between protein and oxidative metabolisms” Dr. Mathieu Cloutier <i>Chemical Engineering, Ecole Polytechnique de Montreal</i>
5.00pm–6.00pm	Poster Session with light refreshments
6.00pm–7.00pm	Keynote Address: “Physiological and anatomical properties of dopamine neurons: clues to differential susceptibility in Parkinson's disease” Prof. J. Paul Bolam <i>MRC Anatomical Neuropharmacology Unit, Department of Pharmacology, University of Oxford</i>

Thursday, 19th August	
Lecture Theatre, The Hamilton Institute, NUIM North Campus	
9.00am–9.30am	Tea/Coffee
Session 2: System Modelling and Analysis of Parkinson’s Disease (cont.)	
9.30am–10.30am	“A whole cell model of calcium homeostasis in dopaminergic substantia nigra neurons” Dr. Míriam R. García <i>The Hamilton Institute, NUI Maynooth</i>
10.30am–11.30am	“Cell Systems Modelling of Aging Phenotypes using Fuzzy Logic” Prof. Andres Kriete <i>Biomedical Engineering, Drexel University</i>
11.30am–11.45am	Morning Tea
11.45am–12.45pm	“Modelling and measurement of cerebral signalling circuits” Mr. Guillaume Drion <i>Department of EE & CS, University of Liège</i>
12.45pm–2.00pm	Lunch
Session 3: Measurement and Sensing for Parkinson’s disease	
2.00pm–3.00pm	“Modelling and methods to control the field of activation for deep brain stimulation” Prof. Richard Bayford <i>Biomodelling Informatics group, Middlesex University</i>
3.00pm–4.00pm	“An approach for the study of energy regulated pathway in Parkinson’s disease: an experimental platform and a model” Prof. Mario Jolicoeur <i>Chemical Engineering, Ecole Polytechnique de Montreal</i>
4.00pm–4.15pm	Closing Remarks followed by Afternoon Tea
4.15pm–5.30pm	Open Discussion on Future Directions