Physiology@100: Past, Present & Future Symposium 2022
Thursday 1st September – Edmund Burke Theatre

08.45-09.15 Registration and coffee
09.15-09.30 Opening remarks
Dr. Linda Doyle, Provost, Trinity College Dublin
Prof. Mark Cunningham, Head of Discipline of Physiology, Trinity College Dublin

Session 1: Cell Physiology & Bioengineering
Chair – Prof. Maeve Caldwell
09.30 – 10.00 Professor Ciaran Murphy-Royal (Université de Montréal, Canada)
“Glial regulation of neuronal circuits and behaviour”
10.00 - 10.30 Prof. Eric Farrell (Erasmus MC, Rotterdam, Netherlands)
“Endochondral ossification in tissue engineering and regenerative medicine”
10.30 - 10.50 Dr Sarah McComish (TCD)
“Harnessing stem cell technology to investigate neurodegenerative diseases”
10.50 - 11.00 Tea/Coffee
View Exhibition/Posters
(Chair – TBC)
Panel discussion (with audience) - Historical Reminiscences of Physiology
Panel members – Dr. Pat Hartigan, Dr. Linde Lunney, Prof. Aine Kelly, Prof Alan Tuffrey, Prof Christopher Torrens.

Session 2: Exercise Physiology & Biomechanics
Chair – Prof. Aine Kelly
12.00 – 12.30 Dr Simon Green (Western Sydney University, Australia)
“A Physiologist in a Clinical World”
12.30 – 12.50 Dr Stuart Warmington
“One journey: from the physiology of muscle to the physiology of exercise”
12.50 - 13.20 Prof Clive Lee (RCSI, Ireland)
“With apologies to JFK…”
13.20 – 13.40 Dr Norita Gildea (TCD)
“Exercise intolerance in type 2 diabetes and the role of aerobic exercise training”
13.40 – 14.40 Lunch
View Exhibition/Posters
**Session 3: Drug Development and Pathophysiology**  
Chair – Dr Eric Downer

14.40 - 15.10
Dr Jack Prendergill (Transpharmation, Ireland)  
“Advancing preclinical models to accelerate the discovery of novel psychedelic therapeutics”

15.10 – 15.40  
Professor Saoirse O’Sullivan (Arteo Biosciences, UK)  
“Physiology, Pharmacology and Pharmaceutics”

15.40 – 16.00  
Ms Melody Cui Sun (TCD)  
“Investigating Cannabinoid-Based Therapeutics in Multiple Sclerosis”

16.00 -16.20  
Tea/Coffee  
View Exhibition/Posters

**Session 4: Neuroscience/Neurophysiology**  
Chair – Prof. Alice Witney

16.20 – 16.50  
Prof Ciaran Bolger (Beaumont Hospital, Dublin)  
“The eyes are the windows to the soul”

16.50 – 17.20  
Prof Denise Manahan-Vaughan (Ruhr University Bochum, Germany)  
“Physiological mechanisms underlying memory and cognition”

17.20 – 17.40  
Dr Tamara Boto (TCD)  
“Assessing the effects of dopamine in neural activity and behaviour: a fly perspective”

17.40 – 18.40  
**Paton Prize Lecture – The Physiological Society** (Chair – Dr Mikel Egana)  
Dr David Miller (University of Glasgow)  
“Sydney Ringer (1835-1910): the History of Searching for a Solution”

18.40 – 18.50  
Concluding remarks  
Closing Drinks Reception – Trinity Dining Hall