TCD Biochemical Society

Presents: **Dr. Brian Green**

Institute for Global Food Security, Queen's University Belfast, School of Biological Sciences

"Using Metabolomics to uncover disease mechanisms in Alzheimer's disease"

Research Highlights:

- Xiaobei Pan, Muhammad Bin Nasaruddin, Christopher T. Elliott, Bernadette McGuinness, Anthony P. Passmore, Patrick G. Kehoe, Christian Hölscher, Paula L. McClean, Stewart F. Graham, Brian D. Green, Alzheimer's disease–like pathology has transient effects on the brain and blood metabolome, Neurobiology of Aging, Volume 38, 2016, Pages 151-163. doi.org/10.1016/j.neurobiolaging.2015.11.014.
- Graham, S. F., Chevallier, O. P., Elliott, C. T., Hölscher, C., Johnston, J., McGuinness, B., … Green, B. D. (2015). Untargeted metabolomic analysis of human plasma indicates differentially affected polyamine and L-arginine metabolism in mild cognitive impairment subjects converting to Alzheimer's disease. *PloS one*, *10*(3), e0119452. doi:10.1371/journal.pone.0119452.
- Pan, X., Cunningham, E. L., Passmore, A. P., McGuinness, B., McAuley, D. F., Beverland, D., ... & Green, B. D. (2019). Cerebrospinal Fluid spermidine, Glutamine and putrescine predict postoperative Delirium Following elective orthopaedic surgery. Scientific reports, 9(1), 4191. doi.org/10.1038/s41598-019-40544-3.

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Thursday 21st of November
FRED, Level 5, TBSI

Tea, coffee and sandwiches served from 12:45 in room 6.07