**12.00-13.00** Lunch and Registration

**13.00-13.40 Biochemical Society Sponsored Plenary:**

Microglia and TREM2: Implications for neurodegeneration

Dr Jennifer Pocock, University College London

**Session 1: Chair (TBC)**

**13.40-14.00** Glial cell patterning and morphogenesis in the developing retina Ryan MacDonald (IICD, TUoS)

**14.00-14.20** Alterations in mitochondrial function and network in iAstrocytes derived from Parkin mutant patients

Camilla Boschian (SITraN, TUoS)

**14.20-14.35 Research snapshots**

* + - * + *Using patient-derived astrocytes to unravel the role of misfoldedSOD1 in motor neurone disease. Noemi Gatto (SITraN, TUoS).*
        + *eIF2B subcomplexes localise to distinct bodies in glial cells: Implications for the ISR? Rachel Hodgson (BMRC, SHU)*

**14.35-15.15** Coffee

**Session 2: Chair (TBC)**

**15.15-15.35** Neurovascular uncoupling? Optogenetic stimulation elicits vascular response in absence of neural activity.

Llewelyn Lee (Psychology, TUoS)

**15.35-15.55** Phenotypic metabolic profiling in motor neurone disease patient astrocytes to identify novel pathways of dysfunction

Scott Allen (SITraN, TUoS)

**15.55-16.15 Research snapshots**

* + - * + *Moving towards personalised medicine in motor neurone disease using patient-derived astrocytes. Chloe Allen (SITraN, TUoS).*
        + *A three-dimensional neural cell culture model of Parkinson's disease. Teresa Whitely (BMRC, SHU)*
        + *Expression of the astrocyte marker N-myc downstream regulated gene 2  
          (NDRG2) in the ageing brain. Motaz Fadal (SITraN, TUoS)*

**16.15-17.00 Biochemical Society Sponsored Plenary:**

Neuronal regulation of (re)myelination

Dr Thora Karadottir, University of Cambridge

**17.00 -** **Proteintech-sponsored Drinks and Networking**