

MSc by Research in Infection and Immunity 2013-2014

Lindsay Nicholson & Andrew Dick

Control of macrophage phenotype by TNFR1 in autoimmune disease

Monocyte trafficking influenced by expression of TNFR1 controls the accumulation of macrophages but not T cells in the ocular microenvironment in the autoimmune disease experimental autoimmune uveoretinitis (EAU: *J. Immunol* 183:2321–2329 2009). The mechanisms underlying this process are unknown. This project will apply in vivo and in vitro methodology (EAU, FACS phenotyping, QPCR and proteomic techniques) to identify candidate regulatory pathways that control this process with the long-term intention of identifying novel therapeutic approaches.

Informal enquiries: L.Nicholson@bristol.ac.uk