

Lay Summary

BRAIN UK Ref: 21/013

Histological and molecular characterisation of the hypoxic and inflammatory microenvironment at the brain tumour invasive margin

Dr Vinton Cheng, University of Leeds

Brain cancer is a devastating condition that causes disability and, frequently, death. Although treatment for brain cancer has improved, outcomes for most sufferers remain poor. We know that the tissue surrounding cancer is often not normal. These abnormal changes help cancer to evade our immune system and resist anti-cancer treatment. Therefore, we want to study these changes in brain cancer. We will use tissue previously taken from patients with primary and secondary brain tumours. In these tissues, we will look for changes linked to low oxygen and inflammation. Improving our understanding of the abnormal brain cancer environment will allow us to devise new treatments to improve patient outcomes.