

New technology developed by Synaptive Medical and CSU

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CSU neurology and neurosurgery associate professor Dr Rebecca Packer utilised Synaptive's Raman spectroscopy research system to assess the clinical biomarkers with potential for use in surgical resection of tumours.

With a focus on new brain tumour therapies, Dr Packer's research aims to create precise and less invasive neurosurgical techniques and therapies to treat the tumours.

The research also includes improvement of intraoperative imaging for accurate detection and resection of tumours during surgery.

Synaptive will work on interconnection and optimisation of the flow of imaging and non-imaging data as well as its integration into current surgical technologies. CSU research will initially include confirmation of the specific spectral fingerprint of different types of brain tumours and matching the fingerprint with the microscopic appearance of the tumour and surrounding normal tissue.