

ABSTRACT

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Clinical Raman spectroscopy of brain tumors from an interdisciplinary perspective.

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Raman spectroscopy is an optical technology that probes tissue composition and is envisioned for clinical applications in neurosurgery. Here, we provide an overview of basic and translational research addressing brain tumor delineation and diagnosis and identify potential scenarios for routine clinical use of Raman spectroscopy. Moreover, we discuss the practical technical requirements in the context of daily use as well as open questions regarding automated tissue assessment.

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