

Protein analysis may reveal new cancer treatment targets

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Cancer cell during cell division. Credit: National Institutes of Health

Researchers have used lab technology called mass spectrometry to study the proteins expressed by human cancer cells. The advance, which is described in a new *Molecular Oncology* article, allows for the

quantitation of thousands of tumour proteins over the course of several hours.

The strategy was used to identify several proteins that were over-expressed in a rare form of [bladder cancer](#) that did not respond to chemotherapy.

The findings reveal that proteomics—the large scale study of all proteins in a given system—has the potential to quickly provide robust personalised therapeutic options for cancer patients in which standard clinical options have been exhausted.

More information: Sophia Doll et al. Rapid proteomic analysis for solid tumors reveals LSD1 as a drug target in an end-stage cancer patient, *Molecular Oncology* (2018). [DOI: 10.1002/1878-0261.12326](https://doi.org/10.1002/1878-0261.12326)

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