

ONCO 611. PROTEOMICS FOR PRECISION MEDICINE.

Credits: 3

Offered by: Gerald Bronfman Dept Oncology (Graduate Studies)

Terms offered: Winter 2026

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Description

Proteomic applications in medicine, including an introduction to mass spectrometry and related state-of-the-art proteomics techniques, and how these techniques can be used to answer important medical questions using clinical samples. The determination of levels and post-translational modifications of diagnostic/prognostic protein markers, the concentration of protein therapeutics in plasma, the simultaneous imaging of multiple proteins on tissue slices by MALDI-MS, and global proteome and phosphoproteome analyses to study signaling pathways. Additionally, strategies for data analysis and data interpretation using modern bioinformatic tools.

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