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Identification of TCR-Ligands Using Fractionation and LC-MS Immunopeptidomics

Identifying major histocompatibility complex (MHC)-bound peptides recognized by specific T-cell receptors (TCRs) is key to developing personalized T-cell therapies. We developed an unbiased pipeline combining immunopeptidomics with TCR functional assays in pancreatic ductal adenocarcinoma (PDAC). MHC class I peptides were fractionated by liquid chromatography (LC) and identified via mass spectrometry (MS). Correlating TCR activity with peptide abundance across fractions enabled robust identification of candidate TCR ligands

Research type

Translational research

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