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Distinguishing Immunotherapy Resistant and Sensitive Melanoma Xenografts Using ¹³C-MRS of Hyperpolarized Pyruvate and ¹H-NMR Metabolomics

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Immunotherapy has been a great success for some cancer patients, helping their own immune systems attack the cancer cells. But these treatments do not always help. We have been researching for answers as to why some have great responses to immunotherapy and others don't by employing preclinical mouse model of B16 melanoma.



Resistant tumors show significantly higher glycolytic metabolism and downstream lactate production.

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