

Abstract (lay version) of project

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"Quantitative Proteomics Analysis of Desmoid-Type Fibromatosis."

Desmoid tumors are rare, benign tumors that can cause debilitating symptoms in patients. Historical treatment has included surgery, often resulting in large operations with high recurrence rates. More modern treatment consists of radiation and systemic chemotherapy, both of which may have lasting effects on the patient. New research on treatment for both keloids and palmar fibromatosis, which are conditions with similarities to desmoid tumors, involves injecting the tumors with corticosteroid (triamcinolone acetonide). This research has shown promising results with few side effects. We therefore aim to perform a pilot study that consists of injecting desmoid tumors with triamcinolone acetonide in order to evaluate if these tumors will respond in similar fashion to what was observed in the palmar fibromatosis and keloid experiments.

In addition to evaluating the response to the corticosteroid we will also plan to test for genetic mutations that have been associated with a higher rate of recurrence of the tumor following treatment.