

**This abstract was submitted to the DTRF Research Workshop in September, 2020.**

Genome-wide DNA methylation profiling of desmoid tumors

Joanna Przybyl

Department of Pathology, Stanford University

Desmoid tumor studies in van de Rijn lab are focused on identifying molecular markers associated with clinical behavior of these tumors. In the present study, our goal was to explore whether DNA methylation profiles could help predict development of local recurrence after surgery, and could help explain the differences in clinical outcomes of desmoid tumors that arise in different locations and carry different mutations in the *CTNNB1* gene. Our preliminary analysis of a small dataset of 11 desmoid tumor specimens shows that DNA methylation profiles may be associated with clinically relevant characteristics of these tumors.