Overexpression of Homologous Repair Proteins in HPV Positive Head & Neck Squamous Cell Carcinoma


Human papillomavirus (HPV) positive squamous cell carcinoma (SCCA) tumor samples have higher expression of proteins BRCA-1 & RAD51 compared to HPV negative tumors. These are involved in a DNA repair pathway called homologous recombination, which may serve as a target for future targeted biologic therapy.

High magnification (20x) images of tissue microarray slides show strong (A) and weak (B) staining samples for protein BRCA-1, and strong (C) and weak (D) staining samples for protein RAD51.

Composite Scores Comparing HPV Positive and Negative SCCA

Research findings:
http://www.kumc.edu/school-of-medicine/otolaryngology/research/highlights.html