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Abstract:Challenges present with chimeric antigen receptors (CARs) adoptive cell therapy against solid tumors have been lacking a ubiquitous tumor-associated antigen across different tumor types, tumor antigen expression heterogeneity, and the immunosuppressive nonphysical tumor microenvironment. Thus, we developed a switch anti human leukocyte antigen (HLA)-G CAR that binds to HLA-G1~G7 isoforms withinducible caspase9 suicide gene

Biography – My research has focused on understanding the molecular and cellular mechanisms of gliomagenesis and, on interactions between glioma cells and the brain microenvironment. By targeting glial progenitor cells in the adult brain, my laboratory has developed genetically engineered mouse models that recapitulate the histological and molecular features of human glioma. We are applying a variety of cutting edge techniques to characterize cellular alterations that accumulate in these mouse models and in



Publication- MECHANISMS OF REGULATION OF PROGENITOR PROLIFERATION AND TRANSFORMATION SINGLE CELL ANALYSIS OF THE INFILTRATIVE MARGINS OF GLIOBLASTOMA AND POST-TREATMENT RECURRENCE TARGETING MUTANT IDH1 FOR A NOVEL SYNTHETIC LETHAL INTERACTION IN MALICNANT CLIOMAS

<u>32nd International Conference on Cancer Research and Therapy, Osaka, Japan, February 19-20, 2020</u> Abstract Citation :<u>Peter D Canoll, **Human Leukocyte Antigen G as a Novel Target for Switch-based** <u>Chimeric Antigen Receptor Natural Killer Cell Therapy of Solid Cancer, CANCER RESEARCH-2020,</u> <u>Osaka, Japan, February 19-20, 2020.</u></u>

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