

STRONG CHILDREN'S RESEARCH CENTER

Summer 2019 Research Scholar

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Mentor: Dr. Laurie Steiner

ABSTRACT

Title: Generation of *STAG2* mutations in a murine cell line to study Down syndrome-related myeloid disorders

Background: Transient abnormal myelopoiesis (TAM) is an immature megakaryoblast proliferation that occurs in patients with Trisomy 21. Mutations in *GATA1* lead to the expression of a shorter protein (GATA1s) and are shown to induce a TAM phenotype. Secondary mutations are associated with pS