

Project title	A study to describe a new laboratory model for a lethal childhood brain cancer called diffuse intrinsic pontine glioma
Recipient	Mr Jason Stanley
Institution	Telethon Kids Institute
Research description	<p>Diffuse intrinsic pontine glioma (DIPG) is an incurable brain tumour that forms in the brainstem of children between the ages of 6 and 8. DIPG cannot be treated with surgery or chemotherapy. Radiation is used, but it only extends the patient's life by about 8 months. Effective treatments for DIPG are yet to be found. Moreover, it is difficult to test new therapies because there is a lack of suitable laboratory models that mimic DIPG.</p> <p>Researchers at Telethon Kids Institute have developed a new animal model of DIPG. In this project, the team aims to see if the new model resembles the same cancer that was observed in the patient. This will be done by looking for proteins that are indicative of DIPG and matching it with the original tumour. This will be conducted using techniques called "immunoblotting" and "immunohistochemistry".</p> <p>If successful, this project will improve the understanding of DIPG and allow testing of new treatments, which could lead to the development of a cure in the future.</p>
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