Targeting resistant glioblastoma multiforme (rGBM) through suppression of overactive DNA repair activity

Objectives:

1. To understand the function of DNA damage repair pathways during neurodevelopment.

2. To identify biochemical (DNA repair) mechanisms that cancerous cells use to mitigate the effectiveness of chemotherapeutics in neural tumours.

3. To describe new high-throughput DNA damage analysis methodology.

4. To functionalize this methodology into a novel drug screening and DNA damage analysis platform to interrogate tumour chemoresistance and to develop personalized “quick-to-clinic” anti-GBM treatments via drug repurposing studies.

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