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Transposon Induction of Glioma Brain Tumors and Cancer Stem

Technology ID

z08158

Category

Life Sciences/Research Tools

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Human Brain Tumor Research

A mouse model for the study of human brain tumors in a variety of ways, such as generation of "humanized" models for high throughput drug screening and candidate gene validation with exceptional speed and flexibility.

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Mouse Model Facilitates Human Glioma Research

The Sleeping Beauty™ transposable elements are used to achieve chromosomal integration of human oncogenes into endogenous brain cells of immune-competent mice. Genetically engineered, spontaneous brain tumors were induced with plasmid DNA in a matter of weeks in many mouse strains. Tumors that arose recapitulated human glioma including presence of cancer stem cells. At least five different genes can be transfected simultaneously, allowing measurement of tumor viability by in vivo imaging. This model can accelerate brain tumor research in a variety of ways, such as generation of "humanized" models for high throughput drug screening and candidate gene validation with exceptional speed and flexibility.

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