Glioblastoma

Xenograft Tumor Model

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOMENCLATURE</th>
<th>HAIR</th>
<th>T CELLS</th>
<th>B CELLS</th>
<th>NK CELLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athymic Nude Mouse</td>
<td>Hsd:Athymic Nude-Foxn1™</td>
<td>No</td>
<td>Nonfunctional</td>
<td>Functional</td>
<td>Functional</td>
</tr>
</tbody>
</table>

**Model**

The athymic nude mouse has an autosomal recessive mutation on *nu* locus on chromosome 11. The hairless model is T-cell deficient and accepts xenograft transplantation.

**Cell Line**

Human U-87 MG cells sourced from ATCC® (Number: HTB-14™) were implanted into a cohort of athymic nude mice. Female mice at approximately 8 weeks of age were implanted with $5.0 \times 10^6$ cells with GFR Matrigel (1:1 dilution) into the subcutaneous space of the right flank.

**Tumor Growth in vivo**

The mice were maintained in a barrier under controlled environmental conditions. The mice consumed Teklad Global Rodent Diet 2914 (14% protein). Body weights were taken and tumor measurements were assessed with a caliper twice per week.

**Tumor Growth Rate for U-87 MG Cells Inoculated into Female Athymic Nude Mice**

![Tumor Growth Rate Graph](image)

Data shown as mean values; N=10
Tumor growth study services conducted by Covance, Inc.