

ARTI 101 : Oncospreading antitumor retroviral vectors

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ONCOLOGY	Candidate
Product Type	Split, replicating retroviral vectors encoding suicide genes
Indication	1st indication: Glioblastoma 2nd indication: Cancer, Neoplasms
Target	Proliferating tumor cells
MoA(Mechanism of Action)	Expression of suicide genes (TK & CD) during replication in tumor cells and spread on tumor tissue → Treatment of prodrugs (GCV & 5-FC) → Cell death
Competitiveness	<p>First In Class</p> <p>Immune reaction against the viral vectors is rarely induced because the infected cancer cells are not lysed during the process of proliferation and spread in the tumor tissue.</p> <p>Therefore, without early clearance of the viral vectors, it is possible to maximize the delivery efficiency of the therapeutic genes that induce cancer cell death.</p> <p>Additionally, the viral vectors were optimized to avoid non-homologous recombination during reverse transcription, a chronic disadvantage of split replication replicating retroviral vector systems.</p>
Development Stage	Candidate
Route of Administration	Stereotaxic Intratumoral or into tumor bed