

Over the past decade, researchers have found that [neural stem cells](#) (NSCs) migrate toward inflammatory sites, including tumors. This insight has inspired research into genetic engineering of human NSCs to express enzymes such as [cytosine deaminase](#) (CD) and [thymidine kinase](#) (TK). These enzymes enable these cells to convert the nontoxic prodrugs 5-fluorocytosine (5FC) and [ganciclovir](#) (GCV) into oncolytic 5-fluorouracil and GCV-triphosphate, respectively.

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