

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.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=cytosine_deaminase

Last update: **2024/06/07 02:51**

