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Oncolytic viruses are live, replication-competent viruses that replicate selectively in tumor cells leading to the destruction of the tumor cells. Tumor selective replicating viruses offer appealing advantages over conventional cancer therapy and are promising a new approach for the treatment of human cancer. The development of virotherapeutics is based on several strategies.

Cited by: 70      Author: Md. Zeyaulah, Mohan Patro, Irfan Ahmad, ...

Publish Year: 2012

Oncolytic viruses for cancer immunotherapy | Journal of ...

<https://honline.biomedcentral.com/articles/10.1186/s13045-020-00922-1>

Jun 20, 2020 · An oncolytic virus is a virus that infects and lyses (breaks down) cancer cells but not normal cells. Oncolytic viruses can occur naturally or can be made in the laboratory by modifying natural viruses. These modifications started a new era of less toxic cancer targeted virus-based therapies [ 25 ].

Cited by: 8      Author: Otto Hemminki, Otto Hemminki, João Mar...

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Oncolytic Virus

An oncolytic virus is a virus that preferentially infects and kills cancer cells. As the infected cancer cells are destroyed by oncolysis, they release new infectious virus particles or virions to help destroy the remaining tumour. Oncolytic viruses are thought not only to cause direct destruction of the tumour cells, but also to stimulate host anti-tumour immune system responses.

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Jun 01, 2017 · The history of adenovirus as an oncolytic agent has been well reviewed. 57 An E1A/E1B-deleted virus (ONYX015) has been extensively tested and approved for treatment of head and neck cancer in China under the name H101. 58 An integrin-binding retargeted adenovirus, Δ24RGD (DNX2401), has been examined in clinical trials 42,59 in which the maximum tolerated dose (MTD) ...

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Author: Sean E. Lawler, Maria-Carmela Speranza...

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7589713>

Oct 12, 2020 · Oncolytic viruses are one such immunotherapeutic tool that is currently being explored in cancer therapeutics. We present the most comprehensive systematic review of all oncolytic viruses in Phase 1, 2, and 3 clinical trials published to date.

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Author: Mary Cook, Aman Chauhan

Publish Year: 2020

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Virotherapy is not a new concept, but recent technical advances in the genetic modification of oncolytic viruses have improved their tumor specificity, leading to the development of new weapons for the war against cancer. Clinical trials with oncolytic viruses demonstrate the safety and feasibility of an effective virotherapeutic approach. Strategies to overcome potential obstacles and challenges to virotherapy are currently being explored. Systemic administrations of oncolytic viruses ...

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