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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, ...

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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...

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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### Clinical Application of Oncolytic Viruses: A Systematic Review

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**Manuscript NO:** 65593

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**Oncolytic virus therapy in cancer: A current review**

Santos Apolonio J *et al.* Oncolytic virus therapy in cancer

Jonathan Santos Apolonio, Vinicius Lima de Souza Gonçalves, Maria Luisa Cordeiro Santos, Marcel Silva Luz, João Victor Silva Souza, Samuel Luca Rocha Pinheiro, Wedja Rafaela de Souza, Matheus Sande Loureiro, Fabricio Freire de Melo

**Abstract**

In view of the advancement in the understanding about the most diverse types of cancer and, consequently, a relentless search for a cure and increased survival rates of cancer

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Oncolytic viruses are an active area of clinical research. ... a major breakthrough for the field. Thus, the OV approach to cancer therapy is becoming more interesting for scientists, clinicians, and the public. The main purpose of this review is to give a basic overview of OVs in clinical development and provide a description of the current ...

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

Publish Year: 2017

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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 ...

Cited by: 70

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