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**Screening of aptamers and their research progress on the targeted diagnosis
and therapy of liver cancer**

Zhang GQ *et al.* Screening and research progress in LC

Guo-Qing Zhang, Li-Ping Zhong, Nuo Yang, Yong-Xiang Zhao

Abstract

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Mar 22, 2016 · At present, **aptamers** used in **cancer therapy** are classified into 3 parts: free **aptamers** against certain **cancer** specific proteins; free **aptamers** against immunoregulatory components; and **aptamers** as carriers for **anti-tumor agents**. Below we elaborate on **the progress** ...

Cited by: 26

Author: Gang Zhou, George Wilson, Lionel Heb...

Publish Year: 2016

Aptamers and Their Significant Role in Cancer Therapy and ...

https://www.researchgate.net/publication/282397011_Aptamers_and_Their_Significant_Role...

Aptamers and Their Significant Role in Cancer Therapy and Diagnosis ... they can be made useful for clinical applications such as **targeted therapy** and **diagnosis**. In this review, we have discussed ...

Targeted Cancer Therapies Fact Sheet - National Cancer ...

<https://www.cancer.gov/about-cancer/treatment/types/targeted-therapies/targeted...> ▼

Targeted cancer therapies are drugs or other substances that block the growth and spread of **cancer** by interfering with specific molecules ("molecular targets") that are involved in the growth, progression, and spread of **cancer**. **Targeted cancer** therapies are sometimes called "molecularly **targeted** drugs," "molecularly **targeted** therapies," "precision medicines," or similar names.

Nucleic acid aptamer application in diagnosis and therapy ...

<https://www.nature.com/articles/s41698-017-0041-y>

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Aptamers: A promising chemical antibody for cancer therapy

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4924653>

Mar 22, 2016 · INTRODUCTION. Some patented **aptamers** (such as **A9** and **A10**) have been used as drug delivery vehicles for **cancer therapy** [4]. With the **progress of aptamer selection technology**, a number of novel **aptamers** that can regulate **cell proliferation**, signal transduction and immune function have been reported.

Cited by: 26

Author: Gang Zhou, George Wilson, Lionel Hebba...

Publish Year: 2016

Cancer Progress Timeline | ASCO

<https://www.asco.org/research-progress/cancer-progress-timeline/major-milestones...> ▾

The new investments accelerate the pace of **cancer research** in the lab and in the clinic, leading to important advances over the next decade. More recently, however, federal support for **cancer research** has declined in real terms, potentially slowing the pace of **progress** against the disease.

Nucleic acid aptamer application in diagnosis and therapy ...

<https://www.nature.com/articles/s41698-017-0041-y>

Nov 14, 2017 · **Nucleic acid aptamers**. According to their chemical properties, **aptamers** are also referred to as "chemical antibodies", highlighting their functional similarity to protein antibodies. In **the antibody therapy** against cancer, **the antibody** molecule is large and difficulty to penetrate into **the tumor** ...

Cited by: 7

Author: Chan Chen, Shan Zhou, Yongqiang Cai, F...

Publish Year: 2017

Author: Chan Chen

Oligonucleotide Aptamers: New Tools for Targeted Cancer ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4221593>

Aug 05, 2014 · This review will discuss the potential applications of aptamer technology as a new tool for **targeted cancer therapy** with emphasis on the development of **aptamers** that are able to specifically **target** cell surface biomarkers.

Cited by: 304

Author: Hongguang Sun, Xun Zhu, Patrick Y Lu, ...

Publish Year: 2014

What's New in Liver Cancer Research?

<https://www.cancer.org/cancer/liver-cancer/about/new-research.html> ▾

Apr 01, 2019 · **Targeted therapy**. Tumor **blood vessels** are **the target** of several newer drugs. Liver tumors need new blood vessels to grow beyond a certain size. **The drug sorafenib** (Nexavar), which is already used for some liver cancers that can't be removed surgically, works in part by hindering new blood

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... of liver cancer-specific aptamers using whole live cells - Shangguan - 被引用次数: 305

... assay for the direct detection of cancerous cells - Medley - 被引用次数: 579

Current Advances in Aptamers for Cancer Diagnosis and Therapy

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5789359/> ▼ 翻译此页

作者: S Hori - 2018 - 被引用次数: 25 - 相关文章

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Aptamers as Diagnostic Tools in Cancer - NCBI

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作者: DR Ciancio - 2018 - 被引用次数: 2 - 相关文章

2018年9月11日 - The number of new cases of cancer is expected to grow rapidly as the ... and accurate cancer diagnostics and therapeutics due to their unique The use of antibodies in cancer diagnosis and therapy has aptamers for liver cancer-cell-specific targeting and imaging [124]. High Throughput Screen.

Aptamer: A potential oligonucleotide nanomedicine in the ... - Oncotarget

www.oncotarget.com/fulltext/23359 ▼ 翻译此页

2018年1月5日 - Currently, several aptamers for diagnostic and therapeutic purposes are under ... Nevertheless, tumor recurrence after percutaneous ablation or liver ... The use of antibodies has been extensively studied both in research and in In addition to its potential in situ, aptamer-based targeted diagnosis and ...

Radiolabelled Aptamers for Theranostic Treatment of Cancer - MDPI

<https://www.mdpi.com/1424-8247/12/1/2/htm> ▼ 翻译此页

作者: U Khalid - 2019 - 被引用次数: 1 - 相关文章

2018年12月24日 - Centre for Molecular and Medical Research, Deakin University, ... aptamers;