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1	Internet 112 words crawled on 14-Dec-2020 <a href="http://tgh.amegroups.com">tgh.amegroups.com</a>	3%
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**Name of Journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 63592

**Manuscript Type:** MINIREVIEWS

**Targeting of elevated cell surface phosphatidylserine with saposin C-dioleoylphosphatidylserine nanodrug as an individual or combination therapy for pancreatic cancer**

Phosphatidylserine-selective therapies for pancreatic cancer

### Abstract

Pancreatic cancer is one of the deadliest of cancers with a five-year survival of roughly 8%. Current therapies are: surgery, radiation and chemotherapy. Surgery is curative only if the cancer is caught very early, which is rare, and the latter two modalities are only marginally effective and have significant side effects. We have developed a nanosome comprised of the lysosomal protein, saposin C (SapC) and the acidic phospholipid, dioleoylphosphatidylserine (DOPS). In the acidic tumor



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## (PDF) SapC-DOPS – a Phosphatidylserine-targeted ...

<https://www.researchgate.net/publication/338489908...>

PDF | **Phosphatidylserine** (PS) is normally located in the inner leaflet of the membrane bilayer of healthy cells, however it is expressed at high levels... | Find, read and cite all the research ...

## SapC-DOPS – a Phosphatidylserine-targeted Nanovesicle for ...

<https://biosignaling.biomedcentral.com/articles/10.1186/s12964-019-0476-6> ▾

Jan 09, 2020 · **Phosphatidylserine** (PS) is normally located in the inner leaflet of the membrane bilayer of healthy cells, however it is expressed at high levels on the **surface** of **cancer** cells. This has allowed for the development of selective therapeutic agents against **cancer** cells (without affecting healthy cells). SapC-DOPS is a PS-**targeting** nanovesicle which effectively targets and kills several **cancer** ...

Cited by: 8

Author: Kombo F. N'Guessan, Priyankaben H. Pa...

Publish Year: 2020

## Phosphatidylserine: A cancer cell targeting biomarker ...

<https://www.sciencedirect.com/science/article/pii/S1044579X17300585>

Oct 01, 2018 · 2. PS as a **cancer** biomarker. The prominent acidic phospholipids in mammalian cells are PS (8.5%), phosphatidic acid (1.5%) and phosphatidylinositol (1.0%) in erythrocytes .PS is an anionic immunosuppressive phospholipid which is normally present in the inner leaflet of the **cell** membrane (internal **surface**). PS externalizes due to apoptosis, injury and hemostasis that activates the ...

Cited by: 79

Author: Bhupender Sharma, Shamsheer S. Kanwar

Publish Year: 2017

## Targeting phosphatidylserine for Cancer therapy: prospects ...

<https://www.thno.org/v10p9214.htm> ▾

164. N'Guessan KF, Patel PH, Qi X. Sapc-dops-a **phosphatidylserine**-targeted nanovesicle for selective **cancer** therapy. Cell Commun Signal. 2020;18(1):6 165. De M, Ghosh S, Sen T, Shadab M, Banerjee I, Basu S. et al. A novel therapeutic strategy for **cancer** using **phosphatidylserine** targeting stearylamine-bearing cationic liposomes. Mol Ther Nucleic ...

Cited by: 1

Author: Wenguang Chang, Hongge Fa, Dandan Xi...

Publish Year: 2020

## Enhanced Efficacy of Combination of ... - Molecular Therapy

Targeting of elevated cell surface phosphatidylserine with saposin (



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## (PDF) SapC-DOPS – a Phosphatidylserine-targeted ...

<https://www.researchgate.net/publication/338489908...>

**Phosphatidylserine**: A **cancer cell targeting** biomarker. ... **saposin C-dioleoylphosphatidylserine** ... suggesting that SapC-DOPS can be used as a **combination therapy** for **cancer** cells with high PS ...

## (PDF) Biotherapy of Brain Tumors with Phosphatidylserine ...

<https://www.researchgate.net/publication/343871506...>

We have developed a drug, **saposin C-dioleoylphosphatidylserine** (SapC-DOPS), that selectively targets **cancer** cells by honing in on this **surface PS**. ... **elevated cell surface PS**, ... **Cancer therapy** ...

## Phosphatidylserine: A cancer cell targeting biomarker ...

<https://www.sciencedirect.com/science/article/pii/S1044579X17300585>

Oct 01, 2018 · 2. PS as a **cancer** biomarker. The prominent acidic phospholipids in mammalian cells are PS (8.5%), phosphatidic acid (1.5%) and phosphatidylinositol (1.0%) in erythrocytes .PS is an anionic immunosuppressive phospholipid which is normally present in the inner leaflet of the **cell** membrane (internal **surface**). PS externalizes due to apoptosis, injury and hemostasis that activates the ...

**Cited by:** 79

**Author:** Bhupender Sharma, Shamsheer S. Kanwar

**Publish Year:** 2017

## (PDF) Targeting and Cytotoxicity of SapC-DOPS Nanovesicles ...

<https://www.researchgate.net/publication/257757244...>

We have developed a nanovesicle, **saposin C-dioleoylphosphatidylserine** (SapC-DOPS), that is therapeutic against a variety of **cancer** types with efficacy directly correlated to **surface** ...

Imaging and Therapy of Pancreatic Cancer with

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<https://www.researchgate.net/publication/338489908...>

**Phosphatidylserine** (PS) is normally located in the inner leaflet of the membrane bilayer of healthy **cells**, however it is expressed at **high** levels on the **surface** of **cancer cells**.

## [Phosphatidylserine: A cancer cell targeting biomarker ...](#)

<https://www.sciencedirect.com/science/article/pii/S1044579X17300585>

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## [\(PDF\) Targeting and Cytotoxicity of SapC-DOPS Nanovesicles ...](#)

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**Phosphatidylserine** (PS) is normally located in the inner leaflet of the membrane bilayer of healthy **cells**, however it is expressed at **high** levels on the **surface** of **cancer cells**.

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<https://www.cell.com/molecular-therapy-family/...>

have abnormally **high surface phosphatidylserine** (PS), a phospho-lipid generally located on the inner leaflet of the **cell** membrane. **Saposin C-dioleoylphosphatidylserine** (SapC-DOPS) is a biologic anticanc...

## [\(PDF\) Biotherapy of Brain Tumors with Phosphatidylserine ...](#)

<https://www.researchgate.net/publication/343871506...>

Aug 25, 2020 · In general, viable GBM **cells** exhibit **elevated phosphatidylserine** (PS) on their membrane **surface** compared to healthy **cells**. We have developed a drug, **saposin C-dioleoylphosphatidylserine** ...

## [Detection of cancer cells using SapC-DOPS nanovesicles ...](#)

<https://molecular-cancer.biomedcentral.com/...> ▾

May 10, 2016 · Unlike normal **cells**, **cancer cells** express **high** levels of **phosphatidylserine** on the extracellular leaflet of their **cell** membrane. Exploiting this characteristic, our lab developed a therapeuti...

## [Enhanced Efficacy of Combination of ... Molecular Therapy](#)