

The function and molecular mechanisms of resveratrol in



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Anticancer Molecular Mechanisms of Resveratrol

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4828556>

Apr 12, 2016 · As demonstrated on **prostate cancer cells**, the **molecular mechanisms of resveratrol** exploit the interactive effects with **TNF-related apoptosis-inducing ligand (TRAIL)**, a protein that works as a ligand and induces the process of programmed cell death. **Prostate cancer androgen-dependent LNCaP cells**, in particular,...

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Author: Elena M. Varoni, Alfredo Fabrizio Lo Faro...

Publish Year: 2016

Resveratrol and cellular mechanisms of cancer prevention ...

<https://nyaspubs.onlinelibrary.wiley.com/doi/full/10.1111/j.1749-6632.2010.05870.x>

In vitro data have shown that **resveratrol** interacts with **multiple molecular targets** and damaged cells of breast, skin, gastric, colon, esophageal, prostate, and pancreatic cancer, as well as leukemia. 9 However, the study of **pharmacokinetics of resveratrol** in humans concluded that even high **doses of resveratrol** might be insufficient to **achieve resveratrol concentrations** in vivo required for the **systemic prevention of cancer**...

Cited by: 232

Author: Yogeshwer Shukla, Richa Singh

Publish Year: 2011



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Name of Journal: *World Journal of Clinical Cases*
Manuscript NO: 53582
Manuscript Type: REVIEW

Mechanisms of resveratrol in the prevention and treatment of gastrointestinal cancer

Wang LY *et al.* Anti-gastrointestinal cancer mechanism of resveratrol

Li-Yan Wang, Shan Zhao, Guo-Jun Lv, Xiao-Jun Ma, Jian-Bin Zhang

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[Resveratrol and cancer: focus on in vivo evidence](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4013237>

Feb 03, 2014 · Finally, **resveratrol** in combination with other natural compounds may also be a viable option for the **treatment** of **colon cancers**. In a recent study, 7-week-old female **ICR SCID mice** were injected with HCT-116 (wt) cells to initiate **colon cancer** formation, and 15 days post cell injection after tumors had formed,...

[Cancer Prevention and Treatment with Resveratrol: From ...](#)

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May 01, 2009 · Multiple biochemical and molecular actions seem to contribute to resveratrol effects against **precancerous** or cancer cells. Resveratrol affects all three discrete stages of carcinogenesis (**initiation**, promotion, and progression) by **modulating signal transduction pathways** that **control cell division** and **growth, apoptosis, inflammation, angiogenesis**, and ...

Cited by: 490**Author:** Anupam Bishayee**Publish Year:** 2009

[Resveratrol is a promising agent for colorectal cancer ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6631492>

Jul 15, 2019 · Resveratrol, a polyphenolic compound, has different pharmacologic functions including **anti-inflammation**, cancer prevention, **lipid-lowering effect**, and **hypoglycemic effect**. Many studies have proved that resveratrol might also represent a **chemo preventive effect** ...

Cited by: 4**Author:** Mohadese Honari, Rana Shafabakhsh, ...**Publish Year:** 2019

[Resveratrol: An overview of its anti-cancer mechanisms ...](#)

<https://www.sciencedirect.com/science/article/pii/S0024320518303692>

Several mechanisms contribute to the **therapeutic action** of resveratrol, including its ability to suppress cancer growth, induce cancer cell death by **apoptosis** and **autophagy**, as well as



Mechanisms of resveratrol in the prevention and treatment of cancer



YJ



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[Resveratrol and cancer: focus on in vivo evidence](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4013237)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4013237>

Feb 03, 2014 · Abstract. **Resveratrol** is a naturally occurring polyphenol that provides a number of **anti-aging health benefits** including improved metabolism, cardioprotection, and **cancer prevention**. Much of the work on **resveratrol** and **cancer** comes from in vitro studies looking at **resveratrol actions** on **cancer cells** and pathways.

[Cancer Prevention and Treatment with Resveratrol: From ...](https://cancerpreventionresearch.aacrjournals.org/content/2/5/409)

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May 01, 2009 · Multiple biochemical and molecular actions seem to contribute to resveratrol effects against **precancerous** or cancer cells. Resveratrol affects all three discrete stages of carcinogenesis (**initiation**, promotion, and progression) by **modulating signal transduction pathways** that **control cell division** and **growth**, **apoptosis**, **inflammation**, **angiogenesis**, and metastasis.

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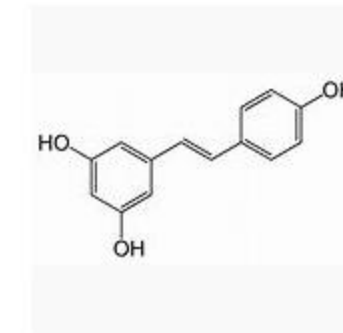
Author: Anupam Bishayee

Publish Year: 2009

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Resveratrol



Resveratrol is a stilbenoid, a type of natural phenol, and a phytoalexin produced by several plants in response to injury or when the plant is under attack by pathogens, such as bacteria or fungi. Sources of resveratrol in food include the skin of grapes, blueberries, raspberries, mulberries, and peanuts.



Chemical formula: $C_{14}H_{12}O_3$

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