

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 47571

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Growth arrest-specific gene 2 suppresses hepatocarcinogenesis by intervention of cell cycle and p53-dependent apoptosis

Zhu RX *et al.* Mechanism of GAS2 inhibiting hepatocarcinogenesis

Ran-Xu Zhu, Alfred Sze Lok Cheng, Henry Lik Yuen Chan, Dong-Ye Yang,

Wai-Kay Seto

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Flow cytometry and cell cycle analysis. The cell cycle was analyzed by flow cytometry. In brief, 1×10^6 cells were untreated or treated with cisplatin, curcumin, or a combination of both, and harvested and washed in PBS, then fixed in 70% alcohol for 30 min at 4°C.

Cited by: 17

Author: Ying Wang, Arun K. Rishi, Wenjuan Wu, ...

Publish Year: 2011

Truncated HBx-dependent silencing of GAS2 promotes ...

https://www.researchgate.net/publication/281116344_Truncated_HBx...

Truncated HBx-dependent silencing of GAS2 promotes hepatocarcinogenesis through deregulation of cell cycle, senescence and p53-mediated apoptosis ... Growth arrest specific 2 (gas2) gene is a ...

p21 in cancer: intricate networks and multiple activities

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Among these, the small 165 amino acid protein p21 (also known as p21 WAF1/Cip1) mediates p53-dependent G1 growth arrest 4, 5. Earlier studies supported the view that p21 suppresses tumours by promoting cell cycle arrest in response to various stimuli.

Cited by: 1713

Author: Tarek Abbas, Anindya Dutta

Publish Year: 2009

p53, the Cellular Gatekeeper for Growth and Division: Cell

[https://www.cell.com/fulltext/S0092-8674\(00\)81871-1](https://www.cell.com/fulltext/S0092-8674(00)81871-1) ▼

Clearly, the p53-mediated cell cycle arrest requires p53-dependent transcription and one or more of its downstream genes. Does p53-mediated apoptosis require the transcriptional activity of p53? ... at least some of the apoptotic activities of p53 do not require p53-dependent gene products. This could mean that transcription of selected p53 ...

Cited by: 9886

Author: Arnold J Levine



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Growth arrest-specific gene 2 suppresses hepatocarcinogenesis by intervention of



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Truncated HBx-dependent silencing of GAS2 promotes ...

https://www.researchgate.net/publication/281116344_Truncated_HBx-dependent_silencing...

Background Growth arrest specific 2 (gas2) gene is a component of the microfilament system that plays a major role in the cell cycle, regulation of microfilaments, and cell morphology during ...

Curcumin suppresses growth of mesothelioma cells in vitro ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3809898>

Curcumin has been shown to **suppress growth** of cancer cells in vitro, while in animals, it **interferes** with tumor initiation as well as tumor promotion [18–22]. Although, the precise mechanisms of action of curcumin are yet to be elucidated, available evidence thus far indicates that it **suppresses cancer cell growth** in large part by down-regulating pathways of cell proliferation and survival.

Cited by: 17

Author: Ying Wang, Arun K. Rishi, Wenjuan Wu, ...

Publish Year: 2011

p53, the Cellular Gatekeeper for Growth and Division: Cell

[https://www.cell.com/fulltext/S0092-8674\(00\)81871-1](https://www.cell.com/fulltext/S0092-8674(00)81871-1) ▼

Feb 07, 1997 - The p53 gene and its protein product have become the center of intensive study ever since it became clear that slightly more than 50% of human cancers contain mutations in this gene. An extensive database (Hollstein et al. 1994) catalogs these mutations in more than 50 different cell and tissue types, although some types of cancers never appear to select for p53 mutations (Lutzker and ...

Cited by: 10794

Author: Arnold J Levine

Publish Year: 1997

S-Phase Cell Cycle Arrest, Apoptosis, and Molecular ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4047297>

Cell cycle progression is regulated by multiple control points at different phases of the cell cycle; the 3 principal ones being G1/S, G2/M, and at metaphase/anaphase transmission during mitosis. Failure of these control points can lead to abnormal growth or apoptosis.

Cited by: 6

Author: Qiaoying Zhu, Jianming Hu, Huijuan Men...

Publish Year: 2014

Upregulation of the growth arrest-specific-2 in recurrent ...

<https://www.sciencedirect.com/science/article/pii/S0925443916300813>

We found a highly significant correlation between CRC relapse and growth arrest-specific 2 (GAS2)



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[Curcumin suppresses growth of mesothelioma cells in vitro ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3809898>

Curcumin suppresses growth of mesothelioma cells in vitro and in vivo, in part, by stimulating apoptosis.... curcumin targets cell cycle and promotes apoptosis to suppress MPM growth in vitro and in vivo. Our studies provide a proof-of-principle rationale for further in-depth analysis of MPM growth suppression mechanisms and their future ...

Cited by: 17

Author: Ying Wang, Arun K. Rishi, Wenjuan Wu, ...

Publish Year: 2011

[Truncated HBx-dependent silencing of GAS2 promotes ...](#)

https://www.researchgate.net/publication/281116344_Truncated_HBx-dependent_silencing...

Truncated HBx-dependent silencing of GAS2 promotes hepatocarcinogenesis through deregulation of cell cycle, senescence and p53-mediated apoptosis ... Growth arrest specific 2 (gas2) gene is a ...

[GAS5 growth arrest specific 5 \(non-protein coding\) \[\(human\)\]](#)

<https://www.ncbi.nlm.nih.gov/gene/60674>

Feb 05, 2017 · This gene produces a spliced long non-coding RNA and is a member of the 5' terminal oligo-pyrimidine class of genes. It is a small nucleolar RNA host gene, containing multiple C/D box snoRNA genes in its introns. Part of the secondary RNA structure of the encoded transcript mimics glucocorticoid response element (GRE) which means it can bind to the DNA binding domain of the ...

[p53, the Cellular Gatekeeper for Growth and Division: Cell](#)

[https://www.cell.com/fulltext/S0092-8674\(00\)81871-1](https://www.cell.com/fulltext/S0092-8674(00)81871-1) ▾

Feb 07, 1997 · The p53 gene and its protein product have become the center of intensive study ever since it became clear that slightly more than 50% of human cancers contain mutations in this gene. An extensive database (Hollstein et al. 1994) catalogs these mutations in more than 50 different cell and tissue types, although some types of cancers never appear to select for p53 mutations (Lutzker and ...

Cited by: 10794

Author: Arnold J Levine

Publish Year: 1997

[Curcumin suppresses growth of mesothelioma cells in vitro ...](#)

https://www.academia.edu/24716787/Curcumin_suppresses_growth_of_mesothelioma_cells_in... ▾

Curcumin suppresses growth of mesothelioma cells in vitro and in vivo, in part, by stimulating apoptosis. Molecular and Cellular Biochemistry, 2011. Arun Rishi. Harvey Pass. Ying Wang. Harvey Pas. Wenjuan Wu. Arun Rishi.

[Upregulation of the growth arrest-specific-2 in recurrent](#)