



Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 42856

Manuscript Type: ORIGINAL ARTICLE

*Basic Study*

**Interplay between post-translational cyclooxygenase-2 modifications and the metabolic and proteomic profile in a colorectal cancer cohort**

Prieto P *et al.* New biomarkers in a CRC cohort

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**Abstract**

**BACKGROUND**

Colorectal cancer (CRC) is the second most common cause of cancer death worldwide. It is broadly described that cyclooxygenase-2 (COX-2) is mainly overexpressed in CRC but less is known regarding post-translational modifications of this enzyme that may regulate its activity, intracellular localization and stability. Since metabolic and proteomic profile analysis is essential for cancer prognosis and diagnosis, our hypothesis is that the analysis of correlations between these specific parameters and COX-2 state in tumors of a high number of CRC patients could be useful for the understanding of the

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Polyamines and **cancer**: old molecules, **new** ... - Gerner - 被引用次数: 892

... strategy to synthetic **COX-2** inhibitors for **cancer** ... - Cerella - 被引用次数: 107

Pancreatic **cancer**: molecular pathogenesis and **new** ... - Wong - 被引用次数: 227

### Over-expression of COX-2 mRNA in colorectal cancer. - NCBI

<https://www.ncbi.nlm.nih.gov/pubmed/24383454> ▾ 翻译此页

作者: HM Roelofs - 2014 - 被引用次数: 67 - 相关文章

2014 Jan 2;14:1. doi: 10.1186/1471-230X-14-1. Over-expression of **COX-2** mRNA in **colorectal cancer**.

... colorectal mucosa, suggesting a role of **COX-2** as a potential **biomarker** for cancer risk, whereas

inhibitors of **COX-2** could be of value in ...

缺少字词: paradigm post translational modifications

### Mechanistic Aspects of COX-2 Expression in Colorectal Neoplasia

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3477597/> ▾ 翻译此页

作者: DA Dixon - 2013 - 被引用次数: 79 - 相关文章

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### Novel biomarkers for patient stratification in colorectal cancer: A ...

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作者: M Chand - 2018

2018年7月15日 - **Colorectal cancer** (CRC) treatment has become more personalised, incorporating a ...

and emerging **biomarkers** with potential utility for clinical **translation** in CRC. To further improve



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## Poster Presentation Abstracts - Systems Approaches to Cancer Biology

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2018年11月8日 - Proteomics, post-translational modifications, and integrative analyses ... and found post-translational modifications of MYC that are associated with ... Cancer cells have a distinctive metabolic profile to meet the energy .... migration is the mutual interaction between the cancer cell and the surrounding tumor.

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### (PDF) Proteomic Analysis of Colorectal Cancer Reveals Alterations in ...

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### Colorectal Cancer and Metabolism | SpringerLink

<https://link.springer.com/10.1007/s11888-018-0420-y> - 翻译此页

2018年11月16日 - Purpose **of** Review **Metabolic** reprogramming is essential for the rapid ... CAF, **cancer-associated fibroblast**; COX2, **cyclooxygenase-2**; CSC, .... **post-translational modification of** proteins, neutralization **of** ROS, and ..... Assessing the **metabolic profile of** CRC **tumors** in patients may one ..... J **Proteome** Res.