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1
Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 62541

Manuscript Type: ORIGINAL ARTICLE

Retrospective Cohort Study

Impact of preoperative antibiotics **and** other variables on integrated microbiome-host transcriptomic data generated from colorectal cancer resections

Preoperative antibiotics impact CRC resection omics

Abstract

BACKGROUND

Integrative multi-omic approaches have been increasingly applied to discovery and functional studies of complex human diseases. Short-term preoperative antibiotics have been adopted to reduce site infections in colorectal cancer (CRC) resections. We hypothesize that the antibiotics will impact analysis of multi-omic datasets generated from resection samples to investigate biological CRC risk factors

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Modulating the microbiome to improve therapeutic response ...

<https://www.sciencedirect.com/science/article/pii/S1470204518309525>

Feb 01, 2019 · Accordingly, strategies to modulate the microbiome are being used and developed for various human diseases, including **cancer**. Such strategies include the use of faecal microbiota transplant, which is a safe and effective approved therapy for recurrent *Clostridium difficile*, 24 and is being used experimentally to treat inflammatory bowel disease, 25 metabolic diseases, 26 and even **cancer** ...

Cited by: 94

Author: Jennifer L McQuade, Carrie R Daniel, Beth ...

Publish Year: 2019

Preoperative Probiotics Decrease Postoperative Infectious ...

<https://www.researchgate.net/publication/51923757...>

Request PDF | **Preoperative** Probiotics Decrease Postoperative Infectious Complications of **Colorectal Cancer** | The objective is to elucidate the **effects** of oral bifid triple viable probiotics among ...

The Influence of the Gut Microbiome on Cancer, Immunity ...

<https://www.researchgate.net/publication/324372830...>

The by-products of microbial fermentation in the large bowel have been described in vitro and in vivo as protective against **colorectal cancer**, breast **cancer** (Thirunavukkarasan et al. 2017) and ...

Analysis of Fusobacterium persistence and antibiotic ...

https://www.researchgate.net/publication/321257227_Analysis_of_Fusobacterium...

Recent examples of studies in human patients highlighted an association between *Fusobacterium nucleatum* and **colorectal cancer** [128] [129] [130][131][132][133][134], and between *Mycoplasmas* and ...

Cancers | Special Issue : Advances in Pancreatic Cancer ...

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The effects of preoperative oral antibiotic use on the ...

<https://www.ncbi.nlm.nih.gov/pubmed/27463886>

The **effects of preoperative** oral antibiotic use on the development of surgical site infection after elective **colorectal resections**: A retrospective cohort analysis in consecutively operated 90 patients. Ozdemir...

Cited by: 6

Author: Suleyman Ozdemir, Kamil Gulpinar, S. Erpul...

Publish Year: 2016

Effect of preoperative oral antibiotics in combination ...

<https://bjssjournals.onlinelibrary.wiley.com/doi/full/10.1002/bjs5.50224>

Oct 16, 2019 · It was not possible to assign propensity scores to 153 patients because of missing co-**variable data**; thus, propensity scores were assigned to 243 patients, 102 of whom did not and 141 of...

Cited by: 4

Author: A. M. Golder, C. W. Steele, D. Conn, G. J. Ma...

Publish Year: 2019

How Do Preoperative Antibiotics Affect Culture Yield in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5414107>

Data Collection. Demographic information, past medical history, DFI severity [], culture results, and **antibiotic** exposure were abstracted from the electronic medical record. **Antibiotic** exposure, including...

Cited by: 3

Author: Heather Young, Whitney Miller, Randy Burn...

Publish Year: 2017

(PDF) Preoperative Antibiotic Prophylaxis

<https://www.researchgate.net/publication/331110646...>

Feb 15, 2019 · **Data** on **antibiotics** use were **generated** during these two periods. This involved an audit from all the departments of two referral hospitals (King Fahad Hospital (KFH) - 425 beds, and Al Ansar ...

The effects of antibiotics on the microbiome throughout ...

<https://genomemedicine.biomedcentral.com/articles/...> ▾

Apr 13, 2016 · The widespread use of **antibiotics** in the past 80 years has saved millions of human lives, facilitated technological progress and killed incalculable numbers of microbes, both pathogenic and...

Distinct impact of antibiotics on the gut microbiome and ...

<https://bmcbiol.biomedcen...> 樊佳茹等6个会话 [les/10.1186/s12915-019-0692-y](#) ▾