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Manuscript NO: 64365

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Impact of *Fusobacterium nucleatum* in Gastrointestinal Tract on Natural Killer cells

Fusobacterium nucleatum and Natural Killer cells

Yeon Ji Kim, Bu Kyung Kim, Seun Ja Park, Jae Hyun Kim

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Background: **Fusobacterium nucleatum** is a heterogeneous oral pathogen that is also a common resident of the human gut mucosa. Given that some strains of F. **nucleatum** are known to be invasive and proinflammatory in the oral mucosa, we compared strains isolated from patients with inflammatory bowel disease (IBD) with strains isolated from healthy controls to determine 1) whether this species ...

Cited by: 395 **Author:** Jaclyn Strauss, Gilaad G. Kaplan, Paul L...
Publish Year: 2011

[PDF] Fusobacterium nucleatum

https://www.tandfonline.com/doi/pdf/10.4161/gmic.2.5.18603?needAccess=true

emerges that paints F. **nucleatum** as both conferring beneficial as well as detrimen - tal **effects** on host **cells**; and we suggest that the ultimate **effects** of F. **nucleatum** infection in the gut are a consequence of the microbes with which this species aggregates. A Heterogeneous Species F. **nucleatum** is ...

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Prognostic **impact** of the **Fusobacterium nucleatum** status in colorectal cancers. Chen Y(1), Lu Y(2), Ke Y(3), Li Y(2). Author information: (1)Department of Emergency Surgery. (2)Division of Gastroenterology, Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China. (3)Department of Urology.

Cited by: 6 **Author:** Yanglong Chen, Ying Lu, Yuting Ke, Yanli...
Publish Year: 2019

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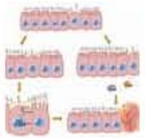
Frontiers | Fusobacterium and Colorectal Cancer | Oncology

https://www.frontiersin.org/articles/10.3389/fonc.2018.00371

Introduction The Biological Features of Fu... The Impact of Fusobacterium



Commensal bacteria in the colon might play a significant role in the maintenance of health (1–4). Intestinal microbiota **promotes** the maturation of human immune system and maintenance of natural barrier integrity (5). **Bacterial dysbiosis in** the gut has been associated with numerous human diseases, including obesity (6, 7), intestinal diseases (8, 9), cardiovascular diseases (10), autism (11), malignancies (12–14) and others. Garr...

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Sep 22, 2018 · The attachment in some way prevented the normal function of TIGIT receptors, damaged the activity of **Natural killer cells-induced** cytotoxicity, and allowed **cancer cells** to grow and expand . The results of this study could help researchers in developing new ways to fight cancer: if the interaction of FN and the **TIGIT** receptor renders the receptor unable to fight and counteract cancer properly, ...

Cited by: 16 **Author:** Yang Liu, Yang Liu, Yoshifumi Baba, Taka...
Publish Year: 2019 **Estimated Reading Time:** 4 mins

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Fusobacterium Nucleatum

Fusobacterium nucleatum is an oral bacterium, commensal to the human oral cavity, that plays a role in periodontal disease. This organism is commonly recovered from different monocultured microbial and mixed infections in humans and animals. It is a k... +

Wikipedia

Higher classification: Fusobacterium

Scientific name: Fusobacterium nucleatum

Kingdom: Bacteria

Phylum: Fusobacteria

Domain: Prokaryote

Class: Fusobacteriia

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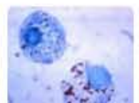

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Fusobacterium nucleatum: an emerging gut pathogen?

https://pubmed.ncbi.nlm.nih.gov/22067936

The Gram-negative, non-sporulating, obligately anaerobic species, **Fusobacterium nucleatum**, is rapidly gaining notoriety as a pathogen with a surprising number of associated diseases. Recently, we have found that F. **nucleatum** is a more common resident of the GI **tract** than originally thought, and thus ...

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Publish Year: 2011

Invasive potential of gut mucosa-derived Fusobacterium ...

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Microbiota Profile and Impact of Fusobacterium nucleatum ...

https://www.frontiersin.org/articles/10.3389/fonc.2019.00813

Aug 29, 2019 · Microbial diversity has been pointed out as a major factor in the development and progression of colorectal cancer (CRC). We sought to explore the richness and abundance of the microbial community of a series of colorectal tumor samples treated at Barretos Cancer Hospital, Brazil, through 16S rRNA sequencing. The presence and the **impact of Fusobacterium nucleatum** (Fn) DNA in ...

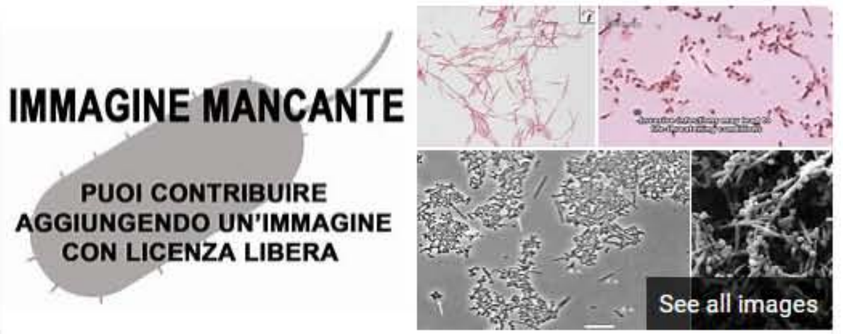
Cited by: 11 **Author:** Ana Carolina de Carvalho, Leandro de Matt...
Publish Year: 2019

The role of Fusobacterium nucleatum in colorectal cancer ...

https://www.sciencedirect.com/science/article/pii/S2095882X19300738

Sep 01, 2019 · The known virulence factors of F. **nucleatum** promote adhesion to intestinal epithelial **cells** via FadA and Fap2. Besides, Fap2 also binds to **immune cells** causing immunosuppression. Furthermore, F. **nucleatum** recruits tumor-infiltrating **immune cells**, thus yielding a pro-inflammatory microenvironment, which promotes colorectal neoplasia progression.

Cited by: 20 **Author:** Chun-Hui Sun, Chun-Hui Sun, Bin-Bin Li, Bin...



Fusobacterium Nucleatum

Fusobacterium nucleatum is an oral bacterium, commensal to the human oral cavity, that plays a role in periodontal disease. This organism is commonly recovered from different monocultured microbial and mixed infections in humans and animals. It is a key component of periodontal plaque due to its abundance and its ability to coaggregate with other ... +

Wikipedia

Higher classification: Fusobacterium

Scientific name: Fusobacterium nucleatum

Kingdom: Bacteria

Phylum: Fusobacteria

Domain: Prokaryote

Class: Fusobacteriia

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