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Name of journal: *World Journal of Clinical Oncology*

ESPS Manuscript NO: 20863

Manuscript Type: Original Article

## Basic study

Association of colorectal cancer with pathogenic *Escherichia coli*: Focus on mechanisms using optical imaging.

Julie Veziani, Johan Gagnière, Elodie Jouberton, Virginie Bonnin, Pierre Sauvanet, Denis Pezet, Nicolas Barnich, Elisabeth Miot-Noirault, Mathilde Bonnet

## Abstract

AIM: To investigate the molecular or cellular mechanisms related to the infection of epithelial colonic mucosa by *pks*-positive *E.coli* using optical imaging.

METHODS: We choose to evaluate the tumor metabolic activity using a FDG analogue as 2-DeoxyGlucosone fluorescent probes and to correlate it with tumoral volume (mm<sup>3</sup>). Inflammation measuring myeloperoxidase (MPO) activity and reactive oxygen species (ROS) production was monitored by a bioluminescent (BLI) inflammation probe and related to histological examination and MPO levels by enzyme-linked immunosorbent assay (ELISA) on tumor specimens. The detection and quantitation of these two signals were validated on a xenograft model of human colon adenocarcinoma epithelial cells (HCT116) in nude mice infected with a *pks*-positive *E.coli*. The inflammatory BLI signal was validated intra-digestively in the colitis-CEABAC10 DSS models, which mimicked Crohn's disease.

Association of colorectal cancer with pathogenic Escherichia coli:



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## Genetics of Colorectal Cancer - National Cancer Institute

[www.cancer.gov/types/colorectal/hp/colorectal-genetics-pdq](http://www.cancer.gov/types/colorectal/hp/colorectal-genetics-pdq)

3 Jun 2015 ... Genetics of **Colorectal Cancer**—for health professionals (PDQ®) ... Advances in Endoscopic **Imaging** in Hereditary CRC ... Interest in the **Use** of Assisted Reproductive Technology (ART) .... The spectrum of somatic mutations contributing to the **pathogenesis** of ..... Atlanta, Ga: American Cancer Society, 2015.

## Colorectal carcinoma: Pathologic aspects

[www.ncbi.nlm.nih.gov/pmc/articles/PMC3418538/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3418538/)

This review article **focuses** on the histopathology of **colorectal carcinoma** ... In World Health Organization (WHO) classification, a number of histologic ... tissues) is usually straightforward when **using** the AJCC TNM staging system .... Interestingly, adenomatous polyps appear to develop through a "top-down" **mechanism**....

## [PDF] PATHOGENIC ESCHERICHIA COLI

[www.tcd.ie/academicunits/schools/medicine/clinical\\_microbiology/assets/docs/MSc/](http://www.tcd.ie/academicunits/schools/medicine/clinical_microbiology/assets/docs/MSc/)

intestinal microflora of humans and other mammals, **E. coli** has also been widely ... this species, the **mechanisms** whereby **E. coli** assures this ... **focus** on **E. coli** strains that are **pathogenic** for humans. ... disease **using** a common set of ..... **Image** courtesy of J. Girón. .... that STa suppresses **colon cancer** cell proliferation.



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### Special Section on Endomicroscopy Technologies and ...

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作者: SJ Miller - 2012 - 相关文章

2012年3月12日 - The early detection and prevention of colorectal cancer is currently  
being performed ... Autofluorescence imaging is sensitive to endogenous fluorescence  
from ... fiber and focused to the same point on the illumination plane using a .... This  
unique combination of scanning mechanism and optics allows for a ...

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