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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 **Veziati**, 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-DeoxyGlucose 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.

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[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

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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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