

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 43171

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Relationship between *Fusobacterium nucleatum*, inflammatory mediators and microRNAs in colorectal carcinogenesis

Proença MA *et al.* *F. nucleatum* in colorectal carcinogenesis

Marcela Alcântara Proença, Joice Matos Biselli, Maysa Succi, Fábio Eduardo Severino, Gustavo Noriz Berardinelli, Alaor Caetano, Rui Manuel Reis, David J Hughes, Ana Elizabete Silva

Abstract

AIM

To examine the effect of *Fusobacterium nucleatum* (*F. nucleatum*) on the microenvironment of colonic neoplasms and the expression of inflammatory mediators and microRNAs (miRNAs).

METHODS

Levels of *F. nucleatum* DNA, cytokine gene mRNA (*TLR2*, *TLR4*, *NFKB1*, *TNF*, *IL1B*, *IL6* and *IL8*), and potentially interacting miRNAs (miR-21-3p, miR-22-3p, miR-28-5p, miR-34a-5p, miR-135b-5p) were measured by quantitative polymerase

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