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Name of Journal: *World Journal of Gastroenterology*

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### Basic Study

*Lactobacillus bulgaricus* inhibits colitis-associated cancer *via* a negative regulation of intestinal inflammation in azoxymethane/dextran sodium sulfate model

Denise Sayuri Calheiros Silveira, Luciana Chain Veronez, Luís Carlos Lopes-Júnior, Elen Anatriello, Mariângela Ottoboni Brunaldi, Gabriela Pereira-da-Silva

### Abstract

### BACKGROUND





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**Name of Journal:** World Journal of Gastroenterology**Manuscript NO:****Manuscript Type:** ORIGINAL ARTICLE*Basic Study*

***Lactobacillus bulgaricus* inhibits colitis-associated cancer via a negative regulation of intestinal inflammation**

Silveira DSC *et al.* *Lactobacillus bulgaricus* inhibits colitis-associated cancer

Denise S C Silveira, Luciana C Veronez, Luís C Lopes-Júnior, Elen Anatriello, Gabriela Pereira-da-Silva

## Abstract

### BACKGROUND

Colitis-associated cancer (CAC) accounts for 2-3% of colorectal cancer (CRC) cases preceded by inflammatory bowel diseases (IBD) such as Crohn's disease and ulcerative colitis. Intestinal microbiota has been reported to play a central role in the pathogenesis of IBD and CAC. Recently, numerous prebiotics and probiotics have been investigated as antitumor agents due to their capacity to modulate inflammatory responses. Previous studies have indicated that lactic acid bacteria (LAB) could be successfully used in managing sporadic CRC, however,

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Methods: C57BL/6 mice were treated with azoxymethane and dextran sulfate sodium (AOM/DSS) to develop a UC carcinogenesis model. The treatment group was lavaged with *S. boulardii* ( $5 \times 10^7$  CFU/d ...

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