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Role of diet and gut microbiota on colorectal cancer immunomodulation

De Almeida CV *et al.* Diet and gut microbiota on immune system

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Abstract

Colorectal cancer (CRC) is one of the most commonly diagnosed cancers and it is characterized by genetic and epigenetic alterations, as well as by the infiltration of inflammatory cells among malignant and stromal cells. However, this dynamic infiltration, can be influenced by the microenvironment to promote tumor proliferation, survival and metastasis or cancer inhibition. In particular, the metabolites of cancer microenvironment are able to orchestrate the inflammatory cells, also developing a chronic inflammatory response that can be a predisposing condition for the CRC retention. In addition, some nutritional components might contribute to a chronic inflammatory condition, by regulating various immune and inflammatory pathways. Besides that, the diet strongly modulates the gut microbiota composition, which has a key role in maintaining the gut homeostasis and it is associated with the modulation of host inflammatory and immune

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