Title: Investigating the association between inflammation and cancer

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Inflammation is an important component of tumor progression.Many cancers are caused by infection, chronic irritation, and inflammation.Inflammatory responses play a critical role in various stages of tumor growth, including onset, promotion, malignant transformation, invasion and metastasis.Inflammation also affects immune surveillance and response to treatment. Immune cells that infiltrate tumors are involved in a wide and dynamic cross-over with cancer cells, and some molecular events have been mediated through this conversation.In addition, tumor cells have selected some of the innate immune signaling molecules, such as selectins, chemokines, and their receptors for invasion, migration, and metastasis.The functional relationship between inflammation and cancer is nothing new, and it has been well documented that induction of inflammation by bacterial and viral infections increases the risk of cancer.Many environmental causes of cancer and risk factors are associated with some form of chronic inflammation.Several types of inflammation - depending on the cause, mechanism, outcome, and severity - can cause cancer progression, for example, persistent infection with Helicobacter pylori associated with gastric cancer and mucosal lymphoid tissue (MALT) lymphoma.Hepatitis B (HBV) or C (HCV) infections increase the risk of hepatocellular carcinoma (HCC), and infections of the species Schistosoma or Bacteroides are linked to bladder and colon cancer, respectively.The purpose of this study was to investigate the association between inflammation and cancer in introducing biomarkers.

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