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Contribution of Galectin-1, a glycan-binding protein, to gastrointestinal tumor progression

María L Bacigalupo, Pablo Carabias, María F Troncoso

### Abstract

Gastrointestinal cancer is a group of tumors that affect multiple sites of the digestive system, including the stomach, liver, colon and pancreas. These cancers are very aggressive and rapidly metastasize, thus identifying effective targets is crucial for treatment. Galectin-1 (Gal-1) belongs to a family of glycan-binding proteins, or lectins, with the ability to cross-link specific glycoconjugates. A variety of biological activities have been attributed to Gal-1 at different steps of tumor progression. Herein, we summarize the current literature regarding the roles of





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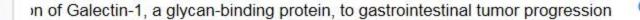
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8 Nov 2016 ... Galectin-3 (gal-3) is a β-galactoside-binding protein that binds a wide ... tumor development and influence the progression of the disease. ... truncated O- glycans like sTn, can contribute to block gal-3 binding to ... Figure 1. Sialyl-Tn confers chemotherapeutic resistance ...... Journal of gastrointestinal cancer.

### Galectin-1: a small protein with major functions | Glycobiology ...

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