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**Structural characteristics and anticancer activity *in vitro* of fucoidan from brown algae  
*Padina boryana***

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## Highlights

- Heterogeneous fucoidan fraction **PbF** was obtained from *P. boryana*
- Structure of the galactofucan part of **PbF** was studied after modification
- The main chain of galactofucan consisted of 1,4- $\alpha$ -L-Fuc and 1,3- $\beta$ -D-Gal
- Native and modified fucoidans had anticancer effect *in vitro* on colon cancer cells

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