Title of the issue: Advancement on the biological activity and applications of plant dietary fibre and bioactive carbohydrates.

Background: As a result of the increased attention to sustainability of natural plants, efforts have been made to use bioactive compounds in plants in different bio-industries.

Aims & Scope: It will focus on plant dietary fibre, and bioactive carbohydrates, including bioactive polysaccharides and oligosaccharides. It will include comprehensive reviews on bioactivities demonstrated by studies using in vitro, cell culture, animal and human clinical trials for understanding the action mechanisms and efficacy of bioactive carbohydrates from plants.

Description: The plants are rich in dietary fibre (DF) and bioactive carbohydrates, including bioactive polysaccharides and oligosaccharides. In this issue, we summarize the existing knowledge on the biological activity and potential applications of DF and polysaccharide from natural plants, such as chestnut, grape and pear, and so on. Furthermore, the biological properties of DF and polysaccharide such as, antioxidant activity, anti-tumor activity, antibacterial activity, anti-inflammatory activity, improving gastrointestinal health activity, anti-apoptotic activity, preventing cardiovascular disease activity, anti-hypercholesterolemic activity and immune-modulating properties are discussed. The action mechanisms and efficacy of bioactive carbohydrates from plants using in vitro, cell culture, animal and human clinical trials for understanding. Finally, the possible applications and future prospects of DF and bioactive carbohydrates in various fields are also reviewed.

Title no: 1 An insight into the bioactivity and applications of polysaccharide from Chestnut

- **Authors names, affiliation and email addresses**
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Aims & Scope: It will include the antioxidant activity, anti-tumor activity, antibacterial activity, and anti-inflammatory activity of chestnut polysaccharide and its applications.

- **Keywords**: Chestnut, polysaccharide, biological activities, applications

Title no: 2 Recent progress of biological properties and health-related applications of dietary fibre form grape

- **Authors names, affiliation and email addresses**
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Aims & Scope: It will include the different biological activities and health-related applications of dietary fibre from grape.

- **Keywords**: Dietary fibre, grape, bioactivity, health-related applications

Title no: 3 A critical review of potential value-added applications of dietary fibre form pear

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• **Aims & Scope**: It will include the potential value-added applications of dietary fibre from pear.

• **Keywords**: Pear, dietary fibre, value-added applications

**Time frame:**

Manuscript submission deadline: Dec, 2015

Peer Review Due: Mar, 2016

Revision Due: Apr, 2016

Notification of acceptance by the Guest Editor: Jun, 2016

Final manuscripts due: Aug, 2016