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**Enzymatic single-step preparation and antioxidant activity of  
hetero-chitooligosaccharides using non-pretreated housefly larvae powder**

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<sup>1</sup> These authors had equal contributions to this work and should be considered co-first authors.

## **Highlights**

- ▶A novel chitinolytic enzyme-producing bacterium *Chitiniphilus sp.* LZ32 was isolated.
- ▶Housefly larvae powder can be used for synthesis of chitooligosaccharides.
- ▶Simple process of chitooligosaccharide production using HLP was realized.
- ▶COS-72 exhibited the strongest hydroxyl-scavenging ability and reducing power.

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