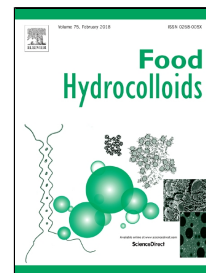


Accepted Manuscript

Development of a controlled bioconversion process for the recovery of chitosan from blue crab (*Portunus segnis*) exoskeleton

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PII: S0268-005X(17)31541-2

DOI: 10.1016/j.foodhyd.2017.10.031

Reference: FOOHYD 4118

To appear in: *Food Hydrocolloids*

Received Date: 06 September 2017

Revised Date: 15 October 2017

Accepted Date: 26 October 2017

Please cite this article as: Marwa Hamdi, Sawssen Hajji, Sawsan Affes, Wafa Taktak, Hana Maâlej, Moncef Nasri, Rim Nasri, Development of a controlled bioconversion process for the recovery of chitosan from blue crab (*Portunus segnis*) exoskeleton, *Food Hydrocolloids* (2017), doi: 10.1016/j.foodhyd.2017.10.031

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Highlights

- Blue crab chitin was extracted after maximization of proteins and minerals removal;
- Chitin was successfully converted to chitosan (BCC; DD=90%);
- BCC exhibited interesting functional properties and antioxidant activities;
- BCC was found to be potent against several bacterial and fungal strains;
- Notable antiadhesive and preformed biofilms distraction abilities of BCC were found.

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