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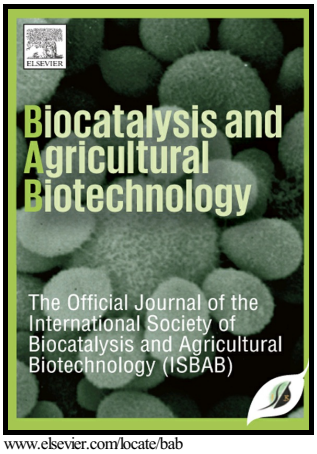

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PII: S1878-8181(17)30284-0
DOI: https://doi.org/10.1016/j.bcab.2017.10.009
Reference: BCAB633

To appear in: *Biocatalysis and Agricultural Biotechnology*

Received date: 19 May 2017
Revised date: 9 October 2017
Accepted date: 10 October 2017

Cite this article as: Bruna Leite Sufiate, Filippe Elias de Freitas Soares, Samara Silveira Moreira, Angélica de Souza Gouveia, Thalita Suelen Avelar Monteiro, Leandro Grassi de Freitas and José Humberto de Queiroz, Nematicidal action of *Pleurotus eryngii* metabolites, *Biocatalysis and Agricultural Biotechnology,* https://doi.org/10.1016/j.bcab.2017.10.009

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ACCEPTED MANUSCRIPT

Nematicidal action of *Pleurotus eryngii* metabolites

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Accepted manuscript

Abstract

Pleurotus eryngii is one of the most cultivated and consumed mushroom species in North Africa, Europe and Asia. Fungi from *Pleurotus* genus have demonstrated nematophagous activities, however most of the literature reports are focused on *Pleurotus ostreatus*. The aim of this work was to evaluate *P. eryngii* action on *Panagrellus* sp. and to evaluate the effect of this fungus culture extract on *Meloidogyne javanica* eggs. *P. eryngii* fungus and its extract significantly reduced ($p<0.01$) the number of intact *Panagrellus* sp. larvae after 24 hours treatment in 60 and 90%, respectively. This effect is not related to enzymatic activity, but to the presence of other metabolites. *M. javanica* eggs, when treated with *P. eryngii* extract, showed a 53%

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