

Accepted Manuscript

Title: A potential mechanism for degradation of 4,5-dichloro-2-(*n*-octyl)-3[2*H*]-isothiazolone (DCOIT) by brown-rot fungus *Gloeophyllum trabeum*.

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PII: S0304-3894(17)30333-3
DOI: <http://dx.doi.org/doi:10.1016/j.jhazmat.2017.04.072>
Reference: HAZMAT 18556

To appear in: *Journal of Hazardous Materials*

Received date: 30-12-2016
Revised date: 27-4-2017
Accepted date: 28-4-2017

Please cite this article as: Yuan Zhu, Jing Xue, Jinzhen Cao, Hongzhan Xiao, A potential mechanism for degradation of 4,5-dichloro-2-(*n*-octyl)-3[2*H*]-isothiazolone (DCOIT) by brown-rot fungus *Gloeophyllum trabeum*., *Journal of Hazardous Materials* <http://dx.doi.org/10.1016/j.jhazmat.2017.04.072>

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A potential mechanism for degradation of 4,5-dichloro-2-(*n*-octyl)-3[2*H*]-isothiazolone (DCOIT) by brown-rot fungus *Gloeophyllum trabeum*.

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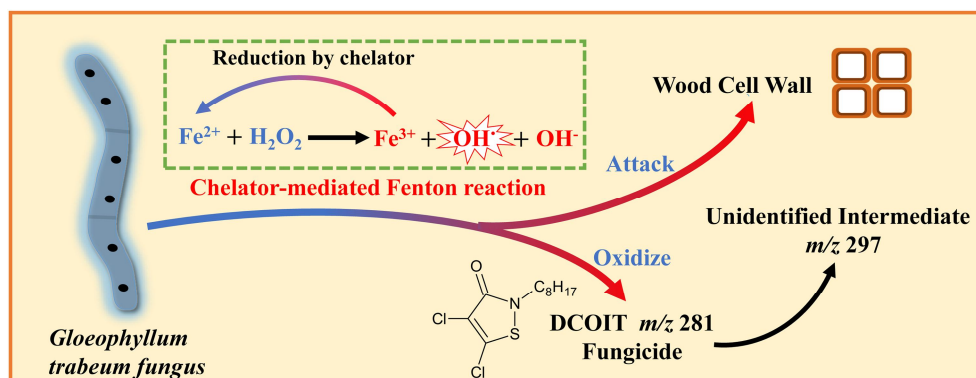
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Graphical abstract



Highlights

- Depletion of DCOIT was first observed when exposed to *Gloeophyllum trabeum*
- CMF chemistry was shown to oxidatively decompose DCOIT
- CMF chemistry was proposed to be responsible for the biodegradation of DCOIT
- This research provides an efficient approach to remove organic biocides

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