Metabolites Produced by the Phytopathogenic Fungus *Rhizoctonia solani*: Isolation, Chemical Structure Determination, Syntheses and Bioactivity

M. Soledade C. Pedras*, Yang Yu, Jun Liu, and Yudelsy A. Tandron-Moya

Department of Chemistry, University of Saskatchewan, 110 Science Place, Saskatoon SK S7N 5C9, Canada. Fax: (1-306) 966-4730. E-mail: s.pedras@usask.ca

* Author for correspondence and reprint requests

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The isolation, structure determination, syntheses and biological activity of $N_b$-acetyltryptamine and three proline containing dioxopiperazines, cyclo($S$-Pro-$S$-Leu) (2), cyclo($S$-Pro-$S$-Ile) (3), and cyclo($S$-Pro-$S$-Val) (4), from cultures of *Rhizoctonia solani* Kuhn are reported here for the first time. Despite the small amounts isolated, the absolute stereochemistry of these naturally occurring dioxopiperazines was established by $^1$H NMR using for the first time the chiral solvating agent ($R$)-(−)-2,2,2-trifluoro-1-(9-anthryl)ethanol.

**Key words:** Dioxopiperazines, *Rhizoctonia solani*