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Microevolutionary analyses of *Pythium insidiosum* isolates of Brazil and Thailand based on *exo-1,3-β-glucanase* gene

Tatiana Corrêa Ribeiro, Carla Weiblen, Maria Isabel de Azevedo, Sônia de Avila Botton, Lizandra Jaqueline Robe, Daniela Isabel Brayer Pereira, Danieli Urach Monteiro, Douglas Miotto Lorensetti, Janio Morais Santurio

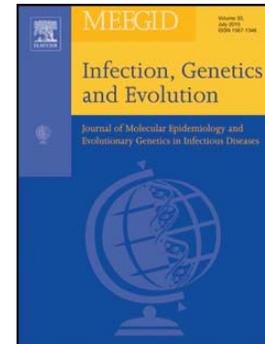
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TITLE Microevolutionary analyses of *Pythium insidiosum* isolates of Brazil and Thailand based on *exo-1,3-β-glucanase* gene

Authors: Tatiana Corrêa Ribeiro^A, Carla Weiblen^B, Maria Isabel de Azevedo^A, Sônia de Avila Botton^{B*}, Lizandra Jaqueline Robe^C, Daniela Isabel Brayer Pereira^D, Danieli Urach Monteiro^E, Douglas Miotto Lorensetti^E, Janio Morais Santurio^{A#}

^ALaboratório de Pesquisas Micológicas, Departamento de Microbiologia e Parasitologia, Centro de Ciências da Saúde, Programa de Pós-graduação em Farmacologia (PPGF), Universidade Federal de Santa Maria (UFSM), Santa Maria, RS, Brasil.

^BDepartamento de Medicina Veterinária Preventiva, Centro de Ciências Rurais, Programa de Pós-graduação em Medicina Veterinária (PPGMV), UFSM, Santa Maria, RS, Brasil. *Co-advisor this research.

^CInstituto de Ciências Biológicas (ICB), Universidade Federal do Rio Grande (FURG), Rio Grande, RS, Brasil.

^DDepartamento de Microbiologia e Parasitologia, Instituto de Biologia, Universidade Federal de Pelotas, Pelotas, RS, Brazil.

^ELaboratório de Parasitologia Humana e Biologia Molecular, UFSM, Santa Maria, RS, Brasil.

#Address for correspondence:

Janio M. Santurio

Universidade Federal de Santa Maria (UFSM), Departamento de Microbiologia e Parasitologia, Av. Roraima nº 1000, Prédio 20, sala 4139, Santa Maria - CEP 97105-900, RS, Brazil. Phone/Fax: +55 55 3220-8906. E-mail: janio.santurio@gmail.com

Abstract

Pythium insidiosum is an important oomycete due to its ability to infect humans and animals. It causes pythiosis, a disease of difficult treatment that occurs more frequently in humans in Thailand and in horses in Brazil. Since cell-wall components are frequently related to host shifts, we decided here to use sequences from the *exo-1,3-β-glucanase* gene (*exo1*), which encodes an immunodominant protein putatively involved in cell wall remodeling, to investigate the microevolutionary relationships of Brazilian and Thai isolates of *P. insidiosum*. After neutrality ratification, the phylogenetic analyses performed through

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