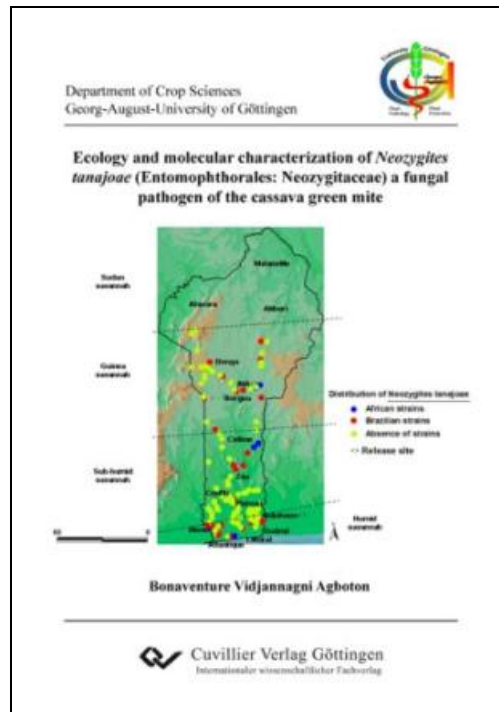# Ecology and molecular characterization of Neozygites tanajoae (Entomophthorales: Neozygitaceae) a fungal pathogen of the cassava green mite

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Reviews

This is actually the very best book i actually have read till now. This is for all those who statte that there was not a worth studying. Its been written in an remarkably straightforward way which is merely following i finished reading this publication by which in fact altered me, modify the way i believe.

(Mr. Jeramy Leuschke IV)

ECOLOGY AND MOLECULAR CHARACTERIZATION OF NEOZYGITES TANAJOAE (ENTOMOPHTHORALES: NEOZYGITACEAE) A FUNGAL PATHOGEN OF THE CASSAVA GREEN MITE

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Cuvillier Verlag Mrz 2009, 2009. Taschenbuch. Book Condition: Neu. 212x147x9 mm. Neuware - For the biological control of the cassava green mite (Mononychellus tanajoa, Bondar),Brazilian strains of the entomopathogen Neozygites tanajoae were recently introduced intoAfrica to improve the control achieved by predatory mites. In order to monitor theestablishment of the Brazilian strains two PCR primer pairs, NEOSSU_F / NEOSSU_R and8DDC_F / 8DDC_R were tested on N. tanajoae strains collected from several locations inBrazil and from three countries in Africa, Benin, Ghana and Tanzania. The first primer pairenabled the species-specific detection of N. tanajoae, while the second differentiated theBrazilian isolates from those of other geographical origin. The results confirmed that the twoprimer pairs tested are suitable for the detection of N. tanajoae and the differentialidentification of Brazilian and African strains. PCR can therefore be used to monitor theestablishment and spread of the Brazilian strains in Benin and in other African countrieswhere they have been introduced recently in order to improve cassava green mite (CGM)control.In this work the establishment and spread of Brazilian strains of N. tanajoae were followedin a countrywide survey in Benin in which a total of 141 cassava fields were inspected.Samples of M. tanajoa suspected of being infected by N. tanajoae were found in 60 fieldsdistributed between the coastal Southern Forest Mosaic (SFM) and the Northern GuineaSavannah (NGS) zones. PCR analysis of DNA samples extracted from samples from thesefields revealed that N. tanajoae is well distributed in Benin and that Brazilian strains wereeffectively established and have spread throughout the country. However, the highest rates ofinfection due to Brazilian strains were observed in the sub-humid and humid savannah zonesof the country.Identification of N. tanajoae strains using molecular tools, however, is very costly. Hence,development of alternative techniques is desirable. Therefore, the difference in biocontrolperformance and in host ranges was compared to...

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