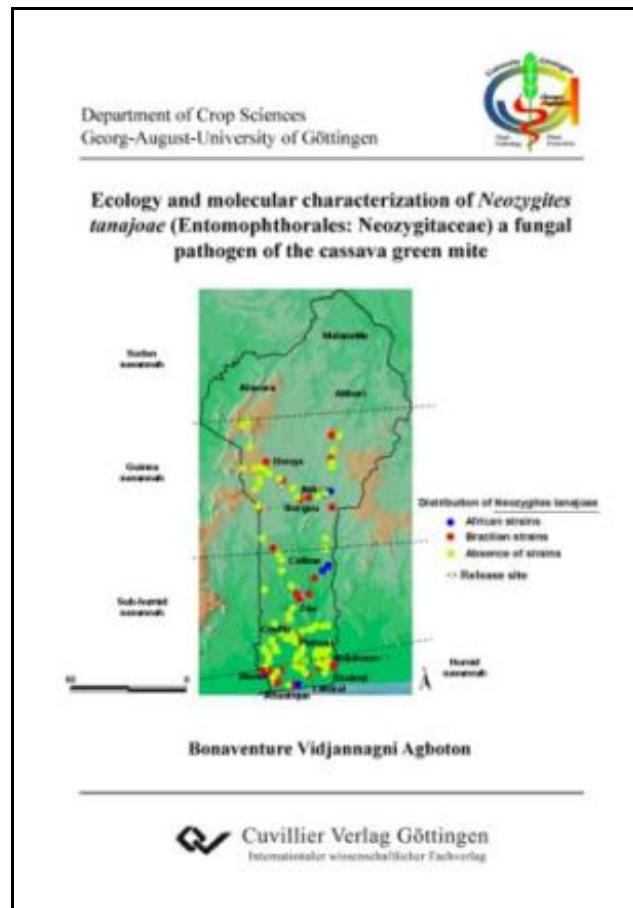


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ECOLOGY AND MOLECULAR CHARACTERIZATION OF NEOZYGITES TANAJOA (ENTOMOPHTHORALES: NEOZYGITACEAE) A FUNGAL PATHOGEN OF THE CASSAVA GREEN MITE



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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 into Africa to improve the control achieved by predatory mites. In order to monitor the establishment of the Brazilian strains two PCR primer pairs, NEOSSU_F / NEOSSU_R and 8DDC_F / 8DDC_R were tested on *N. tanajoae* strains collected from several locations in Brazil and from three countries in Africa, Benin, Ghana and Tanzania. The first primer pair enabled the species-specific detection of *N. tanajoae*, while the second differentiated the Brazilian isolates from those of other geographical origin. The results confirmed that the two primer pairs tested are suitable for the detection of *N. tanajoae* and the differential identification of Brazilian and African strains. PCR can therefore be used to monitor the establishment and spread of the Brazilian strains in Benin and in other African countries where 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 followed in 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 fields distributed between the coastal Southern Forest Mosaic (SFM) and the Northern Guinea Savannah (NGS) zones. PCR analysis of DNA samples extracted from samples from these fields revealed that *N. tanajoae* is well distributed in Benin and that Brazilian strains were effectively established and have spread throughout the country. However, the highest rates of infection due to Brazilian strains were observed in the sub-humid and humid savannah zones of 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 biocontrol performance and in host ranges was compared to...

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