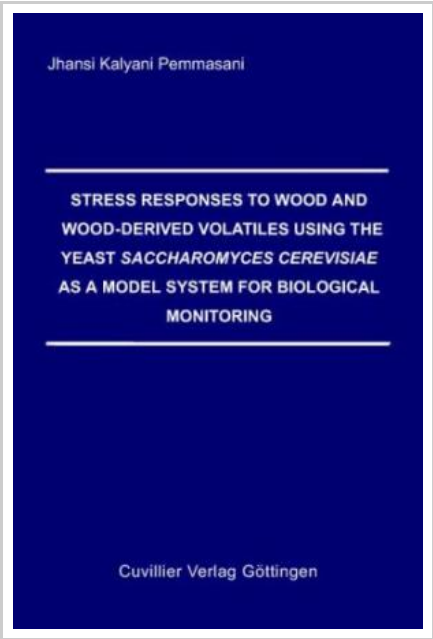


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Stress Responses to Wood and Wood-derived Volatiles Using the Yeast Saccharomyces Cervisiae as a Model System for Biological Monitoring

By Jhansi Kalyani Pamessani

Cuvillier Verlag Aug 2007, 2007. Taschenbuch. Book Condition: Neu. 209x147x19 mm. Neuware - Safeguarding human and environmental resources against harmful agents requires the development of new monitoring devices. Ideally, a device would be able to detect a pollutant, a toxic chemical, or a warfare agent rapidly at relevant concentrations, and in a cost effective manner. Many conventional chemical and physical techniques tend to be expensive. Recently bioreporters are in focus to meet the above criteria. A whole cell bioreporter can be defined as living cell that responds to changes in its environment by displaying a specific and easily measurable signal. Natural and genetically engineered bioreporters are effective research tools for understanding the perception of signals from the environments by living organisms. A bioreporter can be applied as a first detection line for evaluating the toxicity of a mixture of unknown compound composition. Positive reactions could then initiate more focused analysis to identify individual compounds.Wood and wood-related materials are potential sources of harmful volatile organic compounds. Pollution of air, water and soil at the sites of wood production, i.e. forests, from wood processing as well as from wood in service, especially when undergone chemical treatments, contribute to various risks for environment...

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