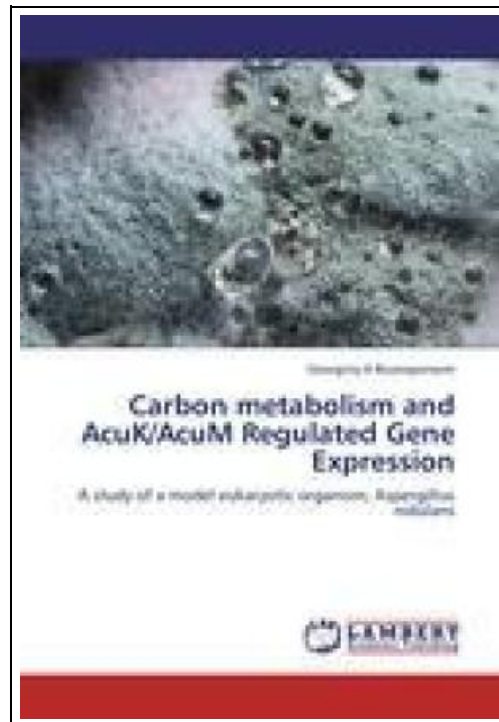


Carbon metabolism and AcuK/AcuM Regulated Gene Expression



Filesize: 9.3 MB

Reviews

Extremely helpful to all category of individuals. I have got go through and that i am confident that i will likely to read through once again again later on. Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Nikita Herzog)

CARBON METABOLISM AND ACUK/ACUM REGULATED GENE EXPRESSION



LAP Lambert Acad. Publ. Sep 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand
Neuware - *Aspergillus nidulans* grows on a myriad of substrates; gene expression is highly regulated to adapt to changes in substrates. AcuK and AcuM transcription factors have been discovered to be involved in the regulation of gluconeogenesis. Research into the expression of genes under AcuK/AcuM control could provide answers to regulatory mechanisms in higher eukaryotes such as humans. Findings from studies on *A. nidulans* can assist in drug (antifungal) development. This book gives insight into carbon metabolism in *A. nidulans* and AcuK/AcuM regulation of the expression of selected genes that possess the putative CCGN7CCG sequence in their promoter regions. It explores the conservation of CCGN7CCG in *maeA*, *acuF* and *alxA* (which encode NADP-dependent malic enzyme, phosphoenolpyruvate carboxykinase and alternative oxidase) of other *Aspergilli* and how these genes are regulated under ethanol induced conditions. The book explains how semi-quantitative RT-PCR analysis can be used to evaluate mRNA levels between *acuK248* and *acuM301* mutants and the wild type. This book will benefit researchers and students in the field of biochemistry and molecular biology of filamentous fungi. 72 pp. Englisch.



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