

Metabolism Meets virulence: International Symposium on Metabolism and Bacterial Pathogenesis

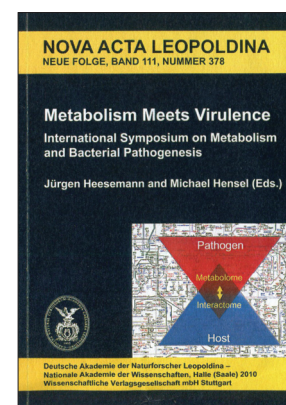
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Nova Acta Leopoldina, Neue Folge, Band 111, Number 378

ISBN 978-3-8047-2803-5

Edited by: Jürgen Heesemann and Michael Hensel

Publishers: Wissenschaftliche Verlagsgesellschaft mbh, Stuttgart, BirkenwaldstraBe 44, 70191 Stuttgart, Germany; Apr 07, 2009; Website: <http://www.wissenschaftliche-verlagsgesellschaft.de>



A higher research-oriented book on the metabolism of pathogen and its effect on virulence affecting host is brought out in simple terms for better understanding. It offers an insight into the functioning of intracellular molecules of bacteria, related to growth and virulence. The book provides to the reader the basic aspect of metabolic activity for better understanding. It also offers an insight into the functioning of the bacterial cell at a genetic level. The chapter, "A small RNA cascade regulates amino sugars synthesis," describes how small non-coding RNAs participate in post-transcriptional regulation of bacterial pathways. The research result has shown that Gram +ve and Gram -ve bacteria have distinct mechanisms of riboregulation, which may be useful for selecting specific drugs to inhibit them.

The chapter by Hengge and Regine on general stress response and biofilm formation of *Escherichia coli* focuses on characterization of the molecules responsible for switching from motility to adhesion and biofilm formation. It can be useful to discover molecules blocking the mechanism and prevent biofilm formation so that antibiotics can be effective.

The book also describes the key regulators of *Staphylococcus aureus*, which is an important human pathogen, and offers an insight into the virulent mechanism, which may be beneficial in treating resistant staphylococcal infection.

Though the book is very useful for research purpose, it has offered to the medical microbiologist an insight into the intracellular level regarding the mechanisms operating for virulence. As further studies will be carried out based on these findings, infectious disease specialists and pharmacologists will benefit from the results by discovering new drugs affecting these mechanisms of bacterial metabolism, and therefore will be employed for treating bacterial infection.

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Website: www.ijpmonline.org

PMID: xxxxxxxx (when available)

Quick Response Code:



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How to cite this article: Satyanarayana S, Praharaj AK. Metabolism Meets virulence: International Symposium on Metabolism and Bacterial Pathogenesis. Indian J Pathol Microbiol 2012;55:428.