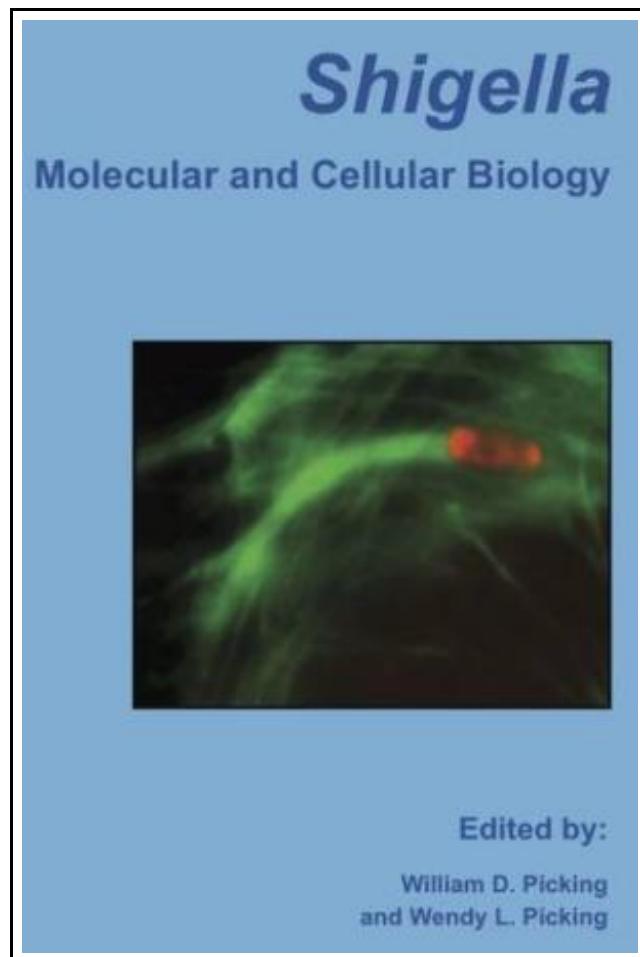


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Caister Academic Press, United Kingdom, 2016. Paperback. Book Condition: New. 236 x 157 mm. Language: English . Brand New Book ***** Print on Demand *****.Members of the genus Shigella are responsible for bacillary dysentery and are of global public health importance. Shigella is one of the leading bacterial causes of diarrhoea worldwide, with greatly elevated morbidity and mortality in developing nations and especially among children. This book provides a thorough overview of current research on the cellular and molecular biology of Shigella. Expert authors have contributed authoritative and up-to-date reviews of current knowledge and recent advances in the molecular biology of these pathogens. The first section of the book explores aspects of metabolism and gene regulation, and it examines the molecular and cellular biology of Shigella as a genus diversified from Escherichia. This section also considers often overlooked features of bacterial pathogens and the current understanding of RNA-based regulation of gene expression. The second part of the book focuses on: the important area of host-pathogen interplay * the ability of Shigella to subvert host signalling processes * pathways for the destruction of phagocytes * the development of novel methods for assessing host cell targets * an overview of the adaptive immunity elicited by Shigella * current Shigella vaccine candidates. The final section covers the Shigella type III secretion system (T3SS), recognized as a highly evolved nanomachine for promoting cross-species communication between prokaryotes and eukaryotes. Two chapters are dedicated to dynamic aspects of the Shigella T3SS, including the needle tip complex and novel methods for the identification of newly recognized effector proteins. This compendium will provide researchers with a flavor of the molecular and cellular topics that are important in understanding Shigella, and the delicate balance it has with its primary host. It is an essential book for Shigella researchers and...

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