

Bacillus: Cellular and Molecular Biology

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Edited by: **Peter Graumann**
University of Freiburg, Germany

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An overview of the most recent and exciting research fields providing a picture of the major cytological aspects of a model bacterium. The authors present current knowledge on topics such as the replication and segregation of the chromosome, cell division, replication and growth, the cell cycle, transcription, translation, regulation, the actin cytoskeleton, the cell membrane and cell wall, biofilm formation and sporulation. Also covered are DNA repair, the regulation of transcription through RNA molecules, and the regulation of protein activity through proteolysis. The authors seamlessly merge the fields of bacterial cell biology and molecular biology to provide an integral view of the bacterial cell, providing an understanding of the way a bacterial cell functions as a whole entity and in 3D, i.e. how it is spatially organized, and even how bacterial cells communicate with each other, or give their life for the sake of the whole community.

An essential book for anyone interested in *Bacillus*, cell biology or bacterial genetics and molecular biology!

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