

Bacterial growth and division - biochemistry and regulation of prokaryotic and eukaryotic division cycles

Academic Press - Bacterial Growth And Division Biochemistry And Regulation Of Prokaryotic And Eukaryotic Division Cycles PDF Book

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Cells.

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Cell Cycle.

Bacteria -- growth & development.

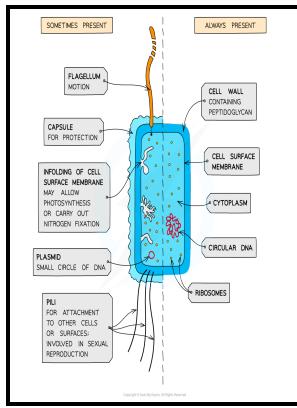
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Notes: Includes bibliographical references (p. 437-471) and indexes.

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From a phenomenological standpoint, recent experiments reveal that diverse microorganisms achieve size homeostasis via an adder principle ,,,. There is also a list of all figures and tables and at the end of each chapter clarifying notes have been added. Physical Biology 8, 046001 2011.

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Collapse of added cell size in different growth conditions upon rescaling by respective mean values. Current Opinion in Microbiology 6, 146—150 2003. Timing of initiation of chromosome replication in individual escherichia coli cells.

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The concepts of bacterial physiology from Ole Maale's Copenhagen school are presented throughout the book and are applied to such topics as the origin of variability, the pattern of DNA segregation, and the principles underlying growth transitions.

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