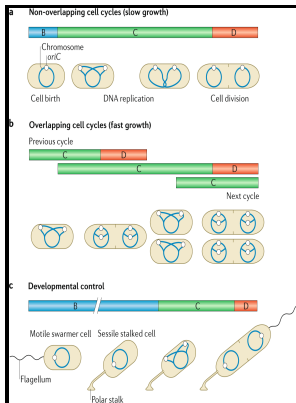


Studies on the relationship between DNA synthesis and cell division on Escherichia coli.

- - Changes of Escherichia coli cell cycle parameters during fast growth and throughout growth with limiting amounts of thymine



Description: -

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Notes: Thesis (Ph. D.)--The Queens University of Belfast, 1967.

This edition was published in 1967



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Tags: #Control #of #Cell #Division #in #Escherichia #coli: #Experiments #with #Thymine #Starvation

DNA synthesis during the division cycle of rapidly growing Escherichia coli Br

Regulation of chromosome replication and segregation in bacteria. Molecular nature of R-factors isolated from *Proteus mirabilis* and *Escherichia coli*. We have previously shown that *Escherichia coli* cells subject to a single, repairable site-specific DNA double-strand break DSB per DNA replication cycle reach a new average cell length, with a negligible effect on population growth rate.

Regulation of Deoxyribonucleic Acid Replication and Cell Division in Escherichia coli B/r

A moving mean of 10,000 bp was applied to the read counts to create the plots shown in A—C. In the absence of DSBR, each of the two replication forks were found to replicate chromosomal DNA at a rate of ~ 1 .

General quantitative relations linking cell growth and the cell cycle in Escherichia coli

Protein synthesis and RNA turnover in a pyrimidine-deficient bacterium.

Escherichia coli cell division

These observations are explained in terms of a model which supposes that the formation of initiator of chromosome replication during a period when DNA synthesis is inhibited results in a block to cell division. Since *lacZ* was found to replicate in the subsequent generation, one generation time was subtracted from this value to give an estimated time since birth in the subsequent generation at *lacZ* replication.

Regulation of DNA synthesis and capacity for initiation in DNA temperature sensitive mutants of Escherichia coli

In: Molineux I, Kohiyama M eds.

Regulation of Deoxyribonucleic Acid Replication and Cell Division in *Escherichia coli* B/r

The mid-cell width of cells within 100 nm bins was averaged and data from biological repeats aggregated.

From the regulation of peptidoglycan synthesis to bacterial growth and morphology

Full text Full text is available as a scanned copy of the original print version. As observed for initiation of cytokinesis above , this may or may not be due to the DSB_R-dependent increase in average size at birth.

Replication of the F' lac sex factor in the cell cycle of *Escherichia coli*

To stain DNA, samples were centrifuged on a bench top centrifuge for 3 minutes before removing the supernatant.

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