

The *E. coli* chromosome at all growth rates

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AT all but the slowest growth rates, *Escherichia coli* cell cycles overlap and its nucleoid is segregated to daughter cells as a forked DNA circle with replication on-going: a state fundamentally different from eukaryotes. I will present *in vitro* and *in vivo* data on this problem. A remarkably simple physical, quantitative picture emerges from the data, and explains the chromosome organization, structural dynamics, and segregation in all growth rates.