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E. coli: Genomics, Evolution and Pathogenesis - Google Books

ARTICLES Genome evolution and adaptation in a long-term experiment with *Escherichia coli* Jeffrey E. Barrick1*, Dong Su Yu2,3*, Sung Ho Yoon2, Haeyoung Jeong2, Tae Kwang Oh2,4, Dominique Schneider5, Richard E. Lenski1 & Jihyun F. Kim2,6 The relationship between rates of genomic evolution and organismal adaptation remains uncertain, despite considerable

Escherichia Coli | ScienceDirect

To examine the tempo and mode of genomic evolution, we sequenced the genomes of *E. coli* clones sampled at generations 2,000, 5,000, 10,000, 15,000, 20,000 and 40,000 from an asexual population ...

E. coli - 1st Edition

E. coli was one of the first organisms to have its genome sequenced; the complete genome of *E. coli* K12 was published by Science in 1997. From 2002 to 2010, a team at the Hungarian Academy of Science created a strain of *Escherichia coli* called MDS42, which is now sold by Scarab Genomics of Madison, WI under the name of "Clean Genome.

Genomics data from the long-term evolution experiment

We compared 27 whole genomes encompassing four phylogroups of *Escherichia coli* (A, B1, B2 and E). From the core-genome we established the clonal relationships between the isolates as well as the role played by homologous recombination during their evolution from a common ancestor.

0122207513 - E Coli: Genomics, Evolution and Pathogenesis ...

Pathogenic *E. coli* is a unique, comprehensive analysis of the biology and molecular mechanisms that enable this ubiquitous organism to thrive. Leading investigators in the field discuss the molecular basis of *E. coli* pathogenesis followed by chapters on genomics and evolution.

Genome evolution and adaptation in a long-term experiment ...

The K-12-specific genome content of different *E. coli* isolates has been compared to assess the incidence of gene transfer and gene loss for *E. coli* genome evolution: a total of 67 events, including 37 additions and 30 deletions, were required to account for the distribution of all genes present in the chromosome of K-12 strain MG1655 (Ochman ...

Genome evolution in major Escherichia coli O157:H7 ...

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(Patho-)Genomics of Escherichia coli - ScienceDirect

Comparative genomics and experimental evolution of *Escherichia coli* BL21(DE3) ... Because we had previously sequenced and analyzed the genome of *E. coli* BL21(DE3) 17, we again probed the genome sequence of BL21(DE3) to investigate this highly frequent mutation. Indeed, ...

Genome sequence of enterohaemorrhagic Escherichia coli ...

Genomics data from the long-term evolution experiment. Genome sequence of the ancestral strain, REL606, a derivative of *E. coli* B: Complete REL606 genome sequence deposited in GenBank; ... Whole-genome alignment of *E. coli* K-12 MG1655 and *E. coli* B REL606 from Jeong et al. (2009).

Impact of homologous and non-homologous ... - BMC Genomics

Genetic analysis of *Escherichia coli* O157:H7 strains has shown divergence into two distinct lineages, lineages I and II, that appear to have distinct ecological characteristics, with lineage I strains more commonly associated with human disease. In this study, microarray-based comparative genomic hybridization (CGH) was used to identify genomic differences among 31 *E. coli* O157:H7 strains that ...

E. coli long-term evolution experiment - Wikipedia

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Amazon.com: E. coli: Genomics, Evolution and Pathogenesis ...

Renowned international authors provide timely and up-to-date reviews of current cutting-edge *E. coli* omics, molecular- and cellular-biology research. Topics range from *E. coli* genome plasticity and evolution to the application of omics technologies for in silico modeling to understand stress-triggered physiological responses. Essential reading.

Genome evolution and adaptation in a long-term experiment ...

Escherichia coli is an important component of the biosphere and is an ideal model for studies of processes involved in bacterial genome evolution. Sixty-one publically available *E. coli* and *Shigella* spp. sequenced genomes are compared, using basic methods to produce phylogenetic and proteomics trees, and to identify the pan- and core genomes of this set of sequenced strains.

Comparison of 61 Sequenced Escherichia coli Genomes

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Pathogenic Escherichia coli: Evolution, Omics, Detection ...

The *E. coli* long-term evolution experiment (LTEE) is an ongoing study in experimental evolution led by Richard Lenski that has been tracking genetic changes in 12 initially identical populations of asexual *Escherichia coli* bacteria since 24 February 1988. The populations reached the milestone of 50,000 generations in February 2010 and 66,000 in November 2016.

Comparative genomics and experimental evolution of ...

Pathogenic *E. coli* is a unique, comprehensive analysis of the biology and molecular mechanisms that enable this ubiquitous organism to thrive. Leading investigators in the field discuss the molecular basis of *E. coli* pathogenesis followed by chapters on genomics and evolution. Detailed descriptions of distinct strains reveal the molecular ...

Escherichia coli - Wikipedia

Additional genome sequence data from other *E. coli* strains as well as functional characterization of gene products is necessary before the complex relationship between *E. coli* genotypes and ...