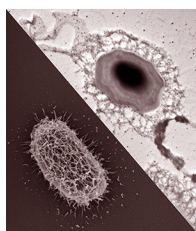


CONTENTS • OCTOBER 2019 • VOLUME 201, NO. 19

COVER IMAGE



Cover photograph: Deletion of the *Bacillus subtilis yfnH* gene, which encodes a putative glucose-1-phosphate nucleotidyltransferase, results in the formation of a weblike outer spore structure, most likely caused by the production of extra spore polysaccharides. (Top) Transmission electron micrograph; (bottom) scanning electron micrograph. (See related article at e00321-19.) (Copyright © 2019 American Society for Microbiology. All Rights Reserved.)

EDITORIAL

Olaf Schneewind, 1961–2019: Scientist, Mentor, Friend e00422-19
Thomas J. Silhavy

SPOTLIGHT

Articles of Significant Interest in This Issue e00489-19

MINIREVIEW

Tyrosine Phosphorylation as a Widespread Regulatory Mechanism in Prokaryotes e00205-19
Landon J. Getz, Cameron S. Runte, Jan K. Rainey, Nikhil A. Thomas

RESEARCH ARTICLES

Single Cells Exhibit Differing Behavioral Phases during Early Stages of *Pseudomonas aeruginosa* Swarming e00184-19
Chinedu S. Madukoma, Peixian Liang, Aleksandar Dimkovikj, Jianxu Chen, Shaun W. Lee, Danny Z. Chen, Joshua D. Shrout

Polar Effects of Transposon Insertion into a Minimal Bacterial Genome e00185-19
Clyde A. Hutchison III, Chuck Merryman, Lijie Sun, Nacyra Assad-Garcia, R. Alexander Richter, Hamilton O. Smith, John I. Glass

Insights into the Physiology and Metabolism of a Mycobacterial Cell in an Energy-Compromised State e00210-19
Varsha Patil, Vikas Jain

The Carboxy-Terminal Region of *Flavobacterium johnsoniae* SprB Facilitates Its Secretion by the Type IX Secretion System and Propulsion by the Gliding Motility Machinery e00218-19
Surashree S. Kulkarni, Joseph J. Johnston, Yongtao Zhu, Zachary T. Hying, Mark J. McBride

Incompatibility of *Vibrio fischeri* Strains during Symbiosis Establishment Depends on Two Functionally Redundant *hcp* Genes e00221-19
Kirsten R. Guckes, Andrew G. Cecere, Nathan P. Wasilko, Amanda L. Williams, Katherine M. Bultman, Mark J. Mandel, Tim Miyashiro

***Mycobacterium tuberculosis* Rv2700 Contributes to Cell Envelope Integrity and Virulence** e00228-19
Edward R. Ballister, Marie I. Samanovic, K. Heran Darwin

- Rapid Accumulation of Motility-Activating Mutations in Resting Liquid Culture of *Escherichia coli*** e00259-19
Darren J. Parker, Pinar Demetci, Gene-Wei Li
- The Small RNA PinT Contributes to PhoP-Mediated Regulation of the *Salmonella* Pathogenicity Island 1 Type III Secretion System in *Salmonella enterica* Serovar Typhimurium** e00312-19
Kyungsub Kim, Alexander D. Palmer, Carin K. Vanderpool, James M. Slauch
- Expansion of the Spore Surface Polysaccharide Layer in *Bacillus subtilis* by Deletion of Genes Encoding Glycosyltransferases and Glucose Modification Enzymes** e00321-19
Bentley Shuster, Mark Khemmani, Yusei Nakaya, Gudrun Holland, Keito Iwamoto, Kimihiro Abe, Daisuke Imamura, Nina Maryn, Adam Driks, Tsutomu Sato, Patrick Eichenberger
- The *Pseudomonas stutzeri*-Specific Regulatory Noncoding RNA Nf5 Targets *katB* mRNA Encoding a Catalase Essential for Optimal Oxidative Resistance and Nitrogenase Activity** e00334-19
Hongyang Zhang, Yuhua Zhan, Yongliang Yan, Yichao Liu, Guihua Hu, Shanshan Wang, Hua Yang, Xuemeng Qiu, Yaqun Liu, Jiang Li, Wei Lu, Claudine Elmerich, Min Lin
- Factors Controlling Floc Formation and Structure in the Cyanobacterium *Synechocystis* sp. Strain PCC 6803** e00344-19
Fabian D. Conradi, Rui-Qian Zhou, Sabrina Oeser, Nils Schuergers, Annegret Wilde, Conrad W. Mullineaux
- A Novel Gene Contributing to the Initiation of Fatty Acid Biosynthesis in *Escherichia coli*** e00354-19
Rajeshree Sanyal, Vani Singh, Rajendran Harinarayanan
- Methylation Warfare: Interaction of Pneumococcal Bacteriophages with Their Host** e00370-19
Leonardo Furi, Liam A. Crawford, Guillermo Rangel-Pineros, Ana S. Manso, Megan De Ste Croix, Richard D. Haigh, Min J. Kwun, Kristine Engelsen Fjelland, Gregor D. Gilfillan, Stephen D. Bentley, Nicholas J. Croucher, Martha R. Clokie, Marco R. Oggioni
- Behaviors and Energy Source of *Mycoplasma gallisepticum* Gliding** e00397-19
Masaki Mizutani, Makoto Miyata
- Bacterial Cyclopropane Fatty Acid Synthase mRNA Is Targeted by Activating and Repressing Small RNAs** e00461-19
Colleen M. Bianco, Kathrin S. Fröhlich, Carin K. Vanderpool