

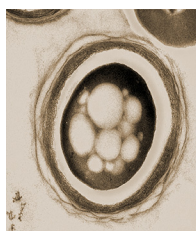


AMERICAN
SOCIETY FOR
MICROBIOLOGY

Journal of
Bacteriology®

CONTENTS • DECEMBER 2020 • VOLUME 202, NO. 24

COVER IMAGE



Cover photograph: Electron micrograph of a mature cyst of *Azotobacter vinelandii*, a dormant cell resistant to adverse environmental conditions. Granules of poly- β -hydroxy-butyrate accumulate in the cytoplasm of the central body. The cyst is protected by a rigid laminated structure in which alginates of defined physicochemical properties are the main component and are essential for the desiccation resistance of the cell. (See related article at e00135-20.) (Copyright © 2020 American Society for Microbiology. All Rights Reserved.)

EDITORIALS

Acknowledgment of *Ad Hoc* Reviewers e00513-20
Thomas J. Silhavy

Special Sections for the 8th Biennial International Conference on the Biology of Vibrios e00543-20
Yves V. Brun

SPOTLIGHT

Articles of Significant Interest in This Issue e00560-20

COMMENTARY

The Linguistics of Bacterial Conflict Systems Reveal Ancient Origins of Eukaryotic Innate Immunity e00507-20
Emily M. Kibby, Aaron T. Whiteley

MEETING REVIEWS

Zebrafish Models for Pathogenic Vibrios e00165-20
Dhrubajyoti Nag, Dustin A. Farr, Madison G. Walton, Jeffrey H. Withey

Cross-Kingdom Activation of *Vibrio* Toxins by ADP-Ribosylation Factor Family GTPases e00278-20
Alfa Herrera, Karla J. F. Satchell

MEETING PRESENTATIONS

A *Vibrio cholerae* Core Genome Multilocus Sequence Typing Scheme To Facilitate the Epidemiological Study of Cholera e00086-20
Kevin Y. H. Liang, Fabini D. Orata, Mohammad Tarequl Islam, Tania Nasreen, Munirul Alam, Cheryl L. Tarr, Yann F. Boucher

Transient Intestinal Colonization by a Live-Attenuated Oral Cholera Vaccine Induces Protective Immune Responses in Streptomycin-Treated Mice e00232-20
Bolutife Fakoya, Brandon Sit, Matthew K. Waldor

Genetic Dissection of the Fermentative and Respiratory Contributions Supporting *Vibrio cholerae* Hypoxic Growth e00243-20
Emilio Bueno, Brandon Sit, Matthew K. Waldor, Felipe Cava

***Vibrio cholerae* Type VI Activity Alters Motility Behavior in Mucin** e00261-20
Abby Frederick, Yuhsun Huang, Meng Pu, Dean A. Rowe-Magnus

- Investigations of Dimethylglycine, Glycine Betaine, and Ectoine Uptake by a Betaine-Carnitine-Choline Transporter Family Transporter with Diverse Substrate Specificity in *Vibrio* Species** e00314-20
Gwendolyn J. Gregory, Anirudha Dutta, Vijay Parashar, E. Fidelma Boyd

RESEARCH ARTICLES

- Increased c-di-GMP Levels Lead to the Production of Alginates of High Molecular Mass in *Azotobacter vinelandii*** e00134-20

Carlos L. Ahumada-Manuel, Iliana C. Martínez-Ortiz, Brian Y. Hsueh, Josefina Guzmán, Christopher M. Waters, David Zamorano-Sánchez, Guadalupe Espín, Cinthia Núñez

- Cyclic di-GMP-Mediated Regulation of Extracellular Mannuronan C-5 Epimerases Is Essential for Cyst Formation in *Azotobacter vinelandii*** e00135-20

Iliana C. Martínez-Ortiz, Carlos L. Ahumada-Manuel, Brian Y. Hsueh, Josefina Guzmán, Soledad Moreno, Miguel Cocotl-Yañez, Christopher M. Waters, David Zamorano-Sánchez, Guadalupe Espín, Cinthia Núñez

- c-di-AMP Accumulation Impairs Muropeptide Synthesis in *Listeria monocytogenes*** e00307-20

Steven M. Massa, Amar Deep Sharma, Cheta Siletti, Zepeng Tu, Jared J. Godfrey, William G. Gutheil, TuAnh N. Huynh

- Influence of *Shigella flexneri* 2a O Antigen Acetylation on Its Bacteriophage Sf6 Receptor Activity and Bacterial Interaction with Human Cells** e00363-20

Min Yan Teh, Axel Furevi, Göran Widmalm, Renato Morona

- Identification of Uncharacterized Components of Prokaryotic Immune Systems and Their Diverse Eukaryotic Reformulations** e00365-20

A. Maxwell Burroughs, L. Aravind

- Static Growth Promotes PrrF and 2-Alkyl-4(1H)-Quinolone Regulation of Type VI Secretion Protein Expression in *Pseudomonas aeruginosa*** e00416-20

Luke K. Brewer, Weiliang Huang, Brandy J. Hackert, Maureen A. Kane, Amanda G. Oglesby

- Transcriptional Responses of *Pseudomonas aeruginosa* to Inhibition of Lipoprotein Transport by a Small Molecule Inhibitor** e00452-20

Christian Lorenz, Thomas J. Dougherty, Stephen Lory

- Comparison of Single and Multiple Turnovers of SecYEG in *Escherichia coli*** e00462-20

Chunfeng Mao, Priya Bariya, Yuying Suo, Linda L. Randall

AUTHOR CORRECTION

- Correction for Singh et al., “The Three RelE Homologs of *Mycobacterium tuberculosis* Have Individual, Drug-Specific Effects on Bacterial Antibiotic Tolerance”** e00554-20

Ramandeep Singh, Clifton E. Barry III, Helena I. M. Boshoff