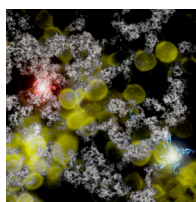




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### COVER IMAGE



*Cover photograph:* The extracellular adherence protein Eap and cell wall-anchored SasG compensate for one another in formation of a protein-dependent *Staphylococcus aureus* biofilm, but only Eap plays a key role in the ruggedness of biofilm structure. In addition, both proteins contribute to the pathogenicity of *S. aureus* in a silkworm infection model. *S. aureus* biofilm was grown in glucose-supplemented brain heart infusion medium, fixed in glutaraldehyde, and visualized by atmospheric scanning electron microscopy. Low (gray)- and high (yellow)-magnification images are merged with Photoshop. Highlighted ribbon models colored in red and blue are indicative of Eap and SasG, respectively. (See related article in April 2019, vol. 87, e00894-18.) (Copyright © 2019 American Society for Microbiology. All Rights Reserved.)

### SPOTLIGHT

#### Articles of Significant Interest in This Issue

e00221-19

#### MOLECULAR PATHOGENESIS

##### MroQ Is a Novel Abi-Domain Protein That Influences Virulence Gene Expression in *Staphylococcus aureus* via Modulation of Agr Activity

e00002-19

*Stephanie Marroquin, Brittney Gimza, Brooke Tomlinson, Michelle Stein, Andrew Frey, Rebecca A. Keogh, Rachel Zapf, Daniel A. Todd, Nadja B. Cech, Ronan K. Carroll, Lindsey N. Shaw*

##### Control of *Staphylococcus aureus* Quorum Sensing by a Membrane-Embedded Peptidase

e00019-19

*Chance J. Cosgriff, Chelsea R. White, Wei Ping Teoh, James P. Grayczyk, Francis Alonzo III*

##### Analysis of Invasive Nontypeable *Haemophilus influenzae* Isolates Reveals Selection for the Expression State of Particular Phase-Variable Lipooligosaccharide Biosynthetic Genes

e00093-19

*Zachary N. Phillips, Charles Brizuela, Amy V. Jennison, Megan Staples, Keith Grimwood, Kate L. Seib, Michael P. Jennings, John M. Attack*

##### *Arcanobacterium haemolyticum* Utilizes Both Phospholipase D and Arcanolysin To Mediate Its Uptake into Nonphagocytic Cells

e00832-18

*Patrick S. Gellings, David J. McGee*

##### Loss of Trefoil Factor 2 Sensitizes Rat Pups to Systemic Infection with the Neonatal Pathogen *Escherichia coli* K1

e00878-18

*Alex J. McCarthy, George M. H. Birchenough, Peter W. Taylor*

#### CELLULAR MICROBIOLOGY: PATHOGEN-HOST CELL MOLECULAR INTERACTIONS

##### Characterization of Early Stages of Human Alveolar Infection by the Q Fever Agent *Coxiella burnetii*

e00028-19

*Amanda L. Dragan, Richard C. Kurten, Daniel E. Voth*

##### *Leishmania donovani* Lipophosphoglycan Increases Macrophage-Dependent Chemotaxis of CXCR6-Expressing Cells via CXCL16 Induction

e00064-19

*Visnu Chaparro, Louis-Philippe Leroux, Aude Zimmermann, Armando Jardim, Brent Johnston, Albert Descoteaux, Maritza Jaramillo*

- Cooperative Interactions between *Trichomonas vaginalis* and Associated Bacteria Enhance Paracellular Permeability of the Cervicovaginal Epithelium by Dysregulating Tight Junctions** e00141-19  
*Annabel S. Hinderfeld, Niha Phukan, Ann-Katrin Bär, Anthony M. Robertson, Augusto Simoes-Barbosa*
- Dual Gene Expression Analysis Identifies Factors Associated with *Staphylococcus aureus* Virulence in Diabetic Mice** e00163-19  
*Rudy Jacquet, Annette E. LaBauve, Lavoisier Akoolo, Shivani Patel, Abdulelah A. Alqarzaee, Tania Wong Fok Lung, Kunal Poorey, Timothy P. Stinear, Vinai C. Thomas, Robert J. Meagher, Dane Parker*
- The Plasmid-Encoded pGP3 Promotes *Chlamydia* Evasion of Acidic Barriers in Both Stomach and Vagina** e00844-18  
*Tianyuan Zhang, Zhi Huo, Jingyue Ma, Cheng He, Guangming Zhong*
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- Alternative Enzyme Protection Assay To Overcome the Drawbacks of the Gentamicin Protection Assay for Measuring Entry and Intracellular Survival of *Staphylococci*** e00119-19  
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- Borrelia burgdorferi* bbk13 Is Critical for Spirochete Population Expansion in the Skin during Early Infection** e00887-18  
*George F. Aranjuez, Hunter W. Kuhn, Philip P. Adams, Mollie W. Jewett*
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- Dietary Chitin Particles Called Mimetic Fungi Ameliorate Colitis in Toll-Like Receptor 2/CD14- and Sex-Dependent Manners** e00006-19  
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