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MOLECULAR GENOMICS

Transcriptional Responses of Uropathogenic *Escherichia coli* to Increased Environmental Osmolality Caused by Salt or Urea

Benjamin Withman, Thusitha S. Gunasekera, Pavani Beesetty, Richard Agans, Oleg Paliy

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Cover photograph (Copyright © 2013, American Society for Microbiology. All Rights Reserved.) High-magnification transmission electron micrographs of *Candida albicans* cell walls after growth on lactate (blue [left]) or glucose (red [right]) reveal the impact of the carbon source on cell wall architecture (magnification, $\times 36,000$). The outer fibrillar layer is made up of mannoproteins, while the inner layer is composed of chitin and β -glucan polymers. These cell wall components are pathogen-associated molecular patterns, recognized by the human innate immune system. Samples were imaged with a Philips CM10 transmission microscope (FEI, United Kingdom) equipped with a Gatan 600W camera, and images were recorded using DigitalMicrograph software (Gatan, Abingdon Oxon, United Kingdom). (See related article on p. 238.)