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Targeting Cell Envelope in Gram-negative Bacteria

Dr. Konovalova is an Assistant Professor in the Department of Microbiology and Molecular Genetics at UTHealth Houston's McGovern Medical School. Dr. Konovalova joined the department in 2017. Dr. Konovalova received her Ph.D. in 2011 for her graduate thesis work in the laboratory of Prof. Lotte Sørensen at the Max-Planck Institute for Terrestrial Microbiology in Marburg, Germany. She completed her postdoctoral training with Professor Thomas J. Silhavy at Princeton University in Princeton, USA. Dr. Konovalova is a recipient of the Texas Rising STAR Award (2017). Dr. Konovalova's research program is focused on how Gram-negative bacteria build and maintain the integrity of the outer membrane (OM). The OM is an essential structure and a major factor of intrinsic antibiotic resistance. Her lab aims to provide a deep functional understanding of the OM assembly and homeostasis pathways and their interconnectivity as the first step in the scientific roadmap to antibiotic discovery.