Special Issue

Novel Chemical and Biological Approaches to Understanding the Bacterial Cell Envelope

Message from the Guest Editors

The bacterial cell envelope is a multilayered structure composed of carbohydrates, lipids, and proteins linked either covalently or non-covalently to one another. The bacterial cell envelope plays a critical role in maintaining cell integrity, regulating the exchange of molecules with the external environment, and facilitating interactions with host cells in bacterial pathogenesis. In addition, it remains the prime target for most antibiotics and the component of choice in cell-labeling techniques for studying the phenomena such as cell division, chemotaxis, and cell wall metabolism. Therefore, understanding the intricate architecture and dynamics of the bacterial cell envelope is crucial for developing effective therapeutic strategies against bacterial infections. [...] This Special Issue of bacteria focuses on bacterial cell envelope and biological or chemical tools that have been developed or used to study its different aspects.

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