

Outer membrane vesicles of bacteria

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Abstrak

This book provides a detailed account of the physico-chemical properties and biological functions of the outer membrane vesicles (OMVs) of different pathogenic and non-pathogenic Gram-negative bacteria. It also includes an authentic record of the first systematic study that discovered the mechanism of OMV formation by a pathogen, *Vibrio cholerae*, and proposed that the process represented a novel secretory activity of bacteria. Furthermore, the authors present clinical and laboratory data on the use of OMVs as immunogens, as effective and licensed vaccines against *Neisseria meningitidis* serogroup B infections and on the development of more effective vaccines against other human and animal pathogens including *Vibrio cholerae*. This volume thus bears witness to the emerging revolution in the field of vaccines against pathogens and closes with a discussion of open questions and future research on OMVs.