

ADVANCES IN MICROBIAL PHYSIOLOGY

EDITED BY ROBERT K. POOLE

C O N T E N T S

**The Journey of Lipoproteins Through the Cell: One Birthplace,
Multiple Destinations***J. Szweczyk and J.-F. Collet***The Making and Taking of Lipids: The Role of Bacterial Lipid Synthesis
and the Harnessing of Host Lipids in Bacterial Pathogenesis***E.M. Fozo and E.A. Ruck***The Impact of Gene Silencing on Horizontal Gene Transfer and Bacterial Evolution***W.W. Navarre***Polar Marine Microorganisms and Climate Change***C. Verde, D. Giordano, C.M. Bellas, G. di Prisco and A.M. Anesio*

Cover illustration: This figure shows a tetramer of H-NS molecules (alternating shades of blue) in complex with four molecules of the Hha protein (pink). The H-NS/Hha complex is required for silencing of AT-rich sequences in Gram-negative proteobacteria like *Escherichia coli*. The complex as shown is one model of H-NS/Hha interaction with DNA known as bridging whereby the complex binds to separate DNA duplexes on either face of the molecule. Alternative conformations of DNA binding have been proposed and are discussed in Chapter 3 (W.W. Navarre).



ACADEMIC PRESS

An imprint of Elsevier
elsevier.com

ISBN 978-0-12-804822-1



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