

Contents

Contributors	ix
Foreword	xi
<i>Michèle A. Barocchi and John L. Telford</i>	
1 The <i>Vibrio cholerae</i> Toxin Coregulated Pilus: Structure, Assembly and Function with Implications for Vaccine Design	1
<i>Lisa Craig and Ronald K. Taylor</i>	
2 Conjugative Pili	17
<i>Peter J. Christie</i>	
3 Pilus Biogenesis by the Chaperone-Usher Pathway	36
<i>Gilles Phan and Gabriel Waksman</i>	
4 Type 1 and P Pili of Uropathogenic <i>Escherichia coli</i>	49
<i>Colin Russell and Matthew Mulvey</i>	
5 Type IV Pili: Functions and Biogenesis	71
<i>Michaela Georgiadou and Vladimir Pelicic</i>	
6 The <i>Pseudomonas aeruginosa</i> Type IV Pilus Assembly System in Three Dimensions	85
<i>Stephanie Tammam, P. Lynne Howell and Lori L. Burrows</i>	
7 <i>Corynebacterium diphtheriae</i> Pili: Assembly, Structure and Function	100
<i>I-Hsiu Huang and Hung Ton-That</i>	
8 Three-dimensional Structures of Pilin Subunits and their Role in Gram-positive Pilus Assembly and Stability	112
<i>Neil G. Paterson and Edward N. Baker</i>	
9 Sortase Structure and Specificity in Streptococci	125
<i>Roberta Cozzi, Domenico Maione and Daniela Rinaudo</i>	

10	Pili of <i>Streptococcus pyogenes</i>	138
	<i>June R. Scott</i>	
11	The Role of Pili in the Formation of Biofilm and Bacterial Communities	151
	<i>Andrea G.O. Manetti and Tiziana Spadafina</i>	
12	Fimbriae/Pili from Oral Bacteria	165
	<i>Haley Echlin and Hui Wu</i>	
13	Pilus-based Vaccine Development in Streptococci: Variability, Diversity and Immunological Responses	182
	<i>Daniela Rinaudo and Monica Moschioni</i>	
	Index	203