

Contents

From Amoeba to Macrophages: Exploring the Molecular Mechanisms of <i>Legionella pneumophila</i> Infection in Both Hosts	1
Pedro Escoll, Monica Rolando, Laura Gomez-Valero and Carmen Buchrieser	
The <i>Legionella pneumophila</i> Two-Component Regulatory Systems that Participate in the Regulation of Icm/Dot Effectors.	35
Gil Segal	
Facets of Small RNA-Mediated Regulation in <i>Legionella pneumophila</i>	53
Hana Trigui, Nilmini Mendis, Laam Li, Mariam Saad and Sebastien P. Faucher	
Type II Secretion and <i>Legionella</i> Virulence	81
Nicholas P. Cianciotto	
Effector Translocation by the <i>Legionella</i> Dot/Icm Type IV Secretion System	103
Jiazhang Qiu and Zhao-Qing Luo	
Modulation of Small GTPases by <i>Legionella</i>.	117
Roger S. Goody and Aymelt Itzen	
Host Lipidation: A Mechanism for Spatial Regulation of <i>Legionella</i> Effectors	135
Stanimir S. Ivanov and Craig Roy	
Phosphoinositide Lipids and the <i>Legionella</i> Pathogen Vacuole.	155
Ina Haneburger and Hubert Hilbi	
<i>Legionella</i> Phospholipases Implicated in Virulence	175
Katja Kuhle and Antje Flieger	

Cytotoxic Glucosyltransferases of *Legionella pneumophila*. 211
Yury Belyi, Thomas Jank and Klaus Aktories

Modulation of the Ubiquitination Machinery by *Legionella*. 227
Andree Hubber, Tomoko Kubori and Hiroki Nagai

**Host Signal Transduction and Protein Kinases Implicated
in *Legionella* Infection.** 249
Andrew D. Hempstead and Ralph R. Isberg

Mouse Models of Legionnaires’ Disease 271
Andrew S. Brown, Ian R. van Driel and Elizabeth L. Hartland

Index 293