

# Contents

<b>1 The Phosphatidylinositol 4-Kinases: Don't Call it a Comeback . . . . .</b>	<b>1</b>
Shane Minogue and Mark G. Waugh	
<b>2 PIP Kinases from the Cell Membrane to the Nucleus . . . . .</b>	<b>25</b>
Mark Schramp, Andrew Hedman, Weimin Li, Xiaojun Tan and Richard Anderson	
<b>3 The Phospholipase C Isozymes and Their Regulation . . . . .</b>	<b>61</b>
Aurelie Gresset, John Sondek and T. Kendall Harden	
<b>4 Phosphoinositide 3-Kinases—A Historical Perspective . . . . .</b>	<b>95</b>
Alex Toker	
<b>5 PI3Ks—Drug Targets in Inflammation and Cancer . . . . .</b>	<b>111</b>
Matthias Wymann	
<b>6 Phosphoinositide 3-Kinases in Health and Disease . . . . .</b>	<b>183</b>
Alessandra Ghigo, Fulvio Morello, Alessia Perino and Emilio Hirsch	
<b>7 Phosphoinositide Phosphatases: Just as Important as the Kinases . . .</b>	<b>215</b>
Jennifer M. Dyson, Clare G. Fedele, Elizabeth M. Davies, Jelena Becanovic and Christina A. Mitchell	
<b>8 The PTEN and Myotubularin Phosphoinositide 3-Phosphatases: Linking Lipid Signalling to Human Disease . . . . .</b>	<b>281</b>
Elizabeth M. Davies, David A. Sheffield, Priyanka Tibarewal, Clare G. Fedele, Christina A. Mitchell and Nicholas R. Leslie	
<b>Glossary . . . . .</b>	<b>337</b>
<b>Index . . . . .</b>	<b>343</b>

Phosphoinositides I: Enzymes of Synthesis and  
Degradation

Balla, T.; Wymann, M.; York, J.D. (Eds.)

2012, XVI, 356 p., Hardcover

ISBN: 978-94-007-3011-3