

# Contents

<b>1</b>	<b>You've Come a Long Way Baby!</b> .....	<b>1</b>
	Solomon H. Snyder	
<b>2</b>	<b>The Evolution of Concepts</b> .....	<b>7</b>
	W.R. Martin	
<b>3</b>	<b>Pharmacology of Opioid Drugs</b> .....	<b>23</b>
	Brian M. Cox	
<b>4</b>	<b>Opioid Receptors: The Early Years</b> .....	<b>59</b>
	Gavril W. Pasternak	
<b>5</b>	<b>Endogenous Opioids</b> .....	<b>93</b>
	Iryna Berezniuk and Lloyd D. Fricker	
<b>6</b>	<b>Molecular Biology of Mu Opioid Receptors</b> .....	<b>121</b>
	Ying-Xian Pan and Gavril W. Pasternak	
<b>7</b>	<b>Delta Opioid Receptors</b> .....	<b>161</b>
	Wendy Walwyn, Fatima Macho Sánchez-Simon, Raquel Rodriguez, and Christopher J. Evans	
<b>8</b>	<b>Kappa Opioid Receptor Gene and the Regulatory Mechanisms of Its Protein Expression</b> .....	<b>181</b>
	Li-Na Wei and Horace H. Loh	
<b>9</b>	<b>Opioid Receptor Signal Transduction Mechanisms</b> .....	<b>195</b>
	Ping-Yee Law	
<b>10</b>	<b>Mu Opioid Receptor Mediated Analgesia and Reward</b> .....	<b>239</b>
	Howard L. Fields	

<b>11 Kappa Opioid Receptor Function .....</b>	<b>265</b>
Julia C. Lemos and Charles Chavkin	
<b>12 Delta Opioid Receptor Function.....</b>	<b>307</b>
Edita Navratilova, Victor J. Hruby, and Frank Porreca	
<b>13 Genetic Studies of Opioid System Function in Mice.....</b>	<b>341</b>
Michael A. Ansonoff, Ting Wen, and John E. Pintar	
<b>14 Opioid Receptor Trafficking .....</b>	<b>389</b>
Mark von Zastrow	
<b>15 Opioid Receptor Dimerization.....</b>	<b>407</b>
Raphael Rozenfeld, Ivone Gomes, and Lakshmi A. Devi	
<b>16 Molecular Modulation of In Vivo Tolerance .....</b>	<b>439</b>
Charles E. Inturrisi and Ann M. Gregus	
<b>17 Genetics of Opioid Actions.....</b>	<b>457</b>
Jörn Lötsch and Jeffrey S. Mogil	
<b>Index.....</b>	<b>499</b>



<http://www.springer.com/978-1-60761-992-5>

The Opiate Receptors

Pasternak, G. (Ed.)

2011, XII, 516 p., Hardcover

ISBN: 978-1-60761-992-5

A product of Humana Press