

Contents

1	Coexistence of Neuromessenger Molecules – A Perspective	1
	Tomas Hökfelt	
2	<i>Ex uno plures</i>: Out of One, Many	15
	R. Gutiérrez	
3	Mechanisms of Synapse Formation: Activity-Dependent Selection of Neurotransmitters and Receptors	23
	Laura N. Borodinsky and Nicholas C. Spitzer	
4	Co-Release of Norepinephrine and Acetylcholine by Mammalian Sympathetic Neurons: Regulation by Target-Derived Signaling.	35
	Jason A. Luther and Susan J. Birren	
5	GABA, Glycine, and Glutamate Co-Release at Developing Inhibitory Synapses	55
	Deda C. Gillespie and Karl Kandler	
6	GABA is the Main Neurotransmitter Released from Mossy Fiber Terminals in the Developing Rat Hippocampus	81
	Victoria F. Safiulina, Majid H. Mohajerani, Sudhir Sivakumaran, and Enrico Cherubini	
7	Postsynaptic Determinants of Inhibitory Transmission at Mixed GABAergic/Glycinergic Synapses	99
	Stéphane Dieudonné and Marco Alberto Diana	
8	Glutamate Co-Release by Monoamine Neurons	127
	Louis Eric Trudeau, Grégory Dal Bo, and José Alfredo Mendez	
9	Dopamine and Serotonin Crosstalk Within the Dopaminergic and Serotonergic Systems.	145
	Fu-Ming Zhou and John A. Dani	

10	The Dual Glutamatergic/GABAergic Phenotype of Hippocampal Granule Cells	181
	R. Gutiérrez	
11	Synaptic Co-Release of ATP and GABA	203
	S. Hugel, Y.H. Jo, and R. Schlichter	
12	The Co-Release of Glutamate and Acetylcholine in the Vertebrate Nervous System	225
	Wen-Chang Li	
13	Colocalization and Cotransmission of Classical Neurotransmitters: An Invertebrate Perspective	243
	Mark W. Miller	
14	<i>E pluribus unum: Out of Many, One</i>	263
	R. Gutiérrez and J. A. Arias-Montaña	
	Index	273

<http://www.springer.com/978-0-387-09621-6>

Co-Existence and Co-Release of Classical
Neurotransmitters

Ex uno plures

Gutierrez, R. (Ed.)

2009, XX, 236 p. 35 illus., 16 illus. in color., Hardcover

ISBN: 978-0-387-09621-6