

# Contents

Preface	v
Regulation of Peptidergic G Protein-Coupled Receptors by Receptor Kinases and Arrestins, <i>L. Iacovelli, S. Mariggio, R. Franchetti and A. De Blasi</i>	1
Anatomical Approaches to Study G-Protein Coupled Peptide Receptors, <i>J.-G. Chabot, Y. Dumont, J.-A. St-Pierre, Y. Tong, S. Doré, S. Kar and R. Quirion</i>	11
Posttranslational Modifications of Endothelin Receptors Modulate Signal Transduction and Receptor Activity, <i>C. Schroeder, H. Cramer, A. Horstmeyer and W. Müller-Esterl</i>	29
Proteinase-Activated Receptors: Mechanisms of Signaling by Serine Proteases, <i>O. Déry, N.W. Bunnett and K.A. Defea</i>	40
Discovery and Design of Peptide and Non-Peptide Ligands to G Protein-Coupled Receptors, <i>J.-L. Fauchere</i>	52
Peptide Receptors: from Classical Pharmacology to Molecular Biology: The Case of Kinin Receptors, <i>D. Regoli and F. Gobeil</i>	64
Bradykinin B2 Receptor Over-Expression by Interleukin-1 $\beta$ in Human Bronchial Smooth Muscle Cells: Transduction Pathway, <i>F. Schmidlin and J.-P. Gies</i>	78
Multiple Mechanisms of Kinin and Tachykinin Receptor Regulation of Airway Inflammation, <i>P. Geppetti, M. Trevisani and S. Amadesi</i>	81
Upregulation by NGF of Bradykinin Receptor Gene Expression in Sensory Neurones, <i>Y.-J. Lee, D.A. Tonge and P.A. McNaughton</i>	94
Bradykinin Receptors and Pain: Transduction Pathways in Pain-Sensitive Neurones, <i>P. Cesare, R. Gilibert and P.A. McNaughton</i>	100
B <sub>1</sub> and B <sub>2</sub> Kinin Receptors: Physiological and Pathological Mechanisms in the Endocrine Pancreas, <i>A. Zuccollo, M. Navarro, T. Fonovich, M. Carattino, F. Cueva, M. Frontera and O.L. Catanzaro</i>	106
The Localisation, Distribution and Function of Peptides and their Receptors in the Enteric Nervous System, <i>M. Costa, G.W. Hennig and S.J.H. Brookes</i>	118
Pharmacology of Nociceptin Receptors, <i>G. Calò, A. Rizzi and D. Regoli</i>	127
Structural Determinants in V <sub>1a</sub> Vasopressin Receptor Function, <i>S.R. Hawtin and M. Wheatley</i>	137
Mutational Analysis of Peptide and Non-Peptide Agonist Binding to the AT <sub>1</sub> Receptor, <i>C.M. Costa-Neto, S. Perlman, H.T. Schambye, A.C.M. Paiva, S.A. Hjorth and T.W. Schwartz</i>	144
Structure-Function of SDF-1 $\alpha$ : Understanding Receptor Binding and Activation, <i>E.J. Fernandez, C. Dealwis and E. Lolis</i>	151
<i>In Vitro</i> and <i>In Vivo</i> Studies on the Binding Capacity of Substance P-Derived Bifunctional Ligands Dedicated to Drug Targeting, <i>A. Wijkhuisen, C. Péan, F. Djedaini-Pilard, J. Fischer, M. Conrath, R. Shigemoto, J. Grassi, B. Perly, J.Y. Couraud and C. Créminon</i>	157
Nitric Oxide Evokes Tachykinin-Like Smooth Muscle Contractions, via a Soluble Guanylyl Cyclase-Dependent Mechanism, in the Guinea-Pig Small Intestine, <i>C. Olgart, N.P. Wiklund and L.E. Gustafsson</i>	161
Gene and Protein Expression of NK <sub>1</sub> and NK <sub>2</sub> Receptors in Crohn's Disease and Ulcerative Colitis, <i>C. Antonio, R. Daniela, P. Beatrice, S. Luca and S. Calogero</i>	165

Immunohistochemistry with Antibodies to the Cholecystokinin-A Receptor Reveals a Widespread Distribution in Rat and Monkey Central Nervous System, <i>L.D. Mercer, J. Numan, N.M. Jones, A.J. Lawrence, N.S. Cheung, J.F.B. Mercer, S.D. Firth, P. Thompson, B. Jarrott, D.I. Finkelstein and P.M. Beart</i>	175
CCK <sub>A</sub> -Receptor Antagonists: Therapies for Gastrointestinal Disorders, <i>M. D'Amato, and L.C. Rovati</i>	181
Endothelin Receptors and Pulmonary Disease, <i>D.W.P. Hay</i>	206
Author Index	225