

Signal Transduction: Pathways, Mechanisms and Diseases

Bearbeitet von
Ari Sitaramayya

1. Auflage 2009. Buch. XI, 437 S. Hardcover

ISBN 978 3 642 02111 4

Format (B x L): 0 x 0 cm

Gewicht: 918 g

Weitere Fachgebiete > Chemie, Biowissenschaften, Agrarwissenschaften >
Biowissenschaften allgemein > Neurobiologie, Verhaltensbiologie

Zu Leseprobe

schnell und portofrei erhältlich bei

The logo for beck-shop.de features the text "beck-shop.de" in a bold, red, sans-serif font. Above the "i" in "shop" are three red dots of increasing size. Below the main text, the words "DIE FACHBUCHHANDLUNG" are written in a smaller, red, all-caps, sans-serif font.

beck-shop.de
DIE FACHBUCHHANDLUNG

Die Online-Fachbuchhandlung beck-shop.de ist spezialisiert auf Fachbücher, insbesondere Recht, Steuern und Wirtschaft. Im Sortiment finden Sie alle Medien (Bücher, Zeitschriften, CDs, eBooks, etc.) aller Verlage. Ergänzt wird das Programm durch Services wie Neuerscheinungsdienst oder Zusammenstellungen von Büchern zu Sonderpreisen. Der Shop führt mehr als 8 Millionen Produkte.

Contents

Part I G Proteins and G Protein–Coupled Receptors

- 1 Traditional GPCR Pharmacology and Beyond** 3
Annette Gilchrist and Maria R. Mazzoni
- 2 Regulation of Intraneuronal Trafficking of G-Protein-Coupled Receptors by Neurotransmitters In Vivo** 25
Véronique Bernard
- 3 Small GTPases and Their Role in Regulating G Protein-Coupled Receptor Signal Transduction** 43
Fabiola M. Ribeiro and Stephen S.G. Ferguson
- 4 Regulation of G Protein Receptor Coupling, Mood Disorders and Mechanism of Action of Antidepressants** 63
Moran Golan, Gabriel Schreiber, and Sofia Avissar
- 5 Dysregulation of G Protein-Coupled Receptor Signaling in Cancer** 83
JoAnn Trejo

Part II Growth Factors

- 6 Insulin Signaling in Normal and Diabetic Conditions** 101
Patrice E Fort, Hisanori Imai, Raju Rajala, and Thomas W. Gardner
- 7 Epidermal Growth Factor (EGF) Receptor Signaling and Cancer** 119
Elizabeth S. Henson and Spencer B. Gibson

8	Leptin Signaling Pathway	143
	Hiroyuki Shimizu	
9	Signaling in Normal and Pathological Angiogenesis	159
	Michael R. Mancuso and Calvin J. Kuo	

Part III Signaling Platforms

10	Spatial and Temporal Control of Cell Signaling by A-Kinase Anchoring Proteins	183
	F. Donelson Smith, Lorene K. Langeberg, and John D. Scott	
11	Mitochondria, a Platform for Diverse Signaling Pathways	199
	Astrid C. Schauss and Heidi M. McBridee	
12	Mitogen-Activated Protein Kinases and Their Scaffolding Proteins	219
	Danny N. Dhanasekaran and E. Premkumar Reddy	
13	Molecular and Functional Determinants of Ca²⁺ Signaling Microdomains	237
	Indu S. Ambudkar, Hwei L. Ong, and Brij B. Singh	

Part IV Nuclear Receptors / Transcription

14	Eukaryotic Gene Transcription	257
	Jennifer H. Gromek and Arik Dvir	
15	Estrogen Signaling Mechanisms	273
	Dapeng Zhang and Vance L. Trudeau	
16	Signal Transduction Pathways Involved in Glucocorticoid Actions	289
	Peter J. Barnes	

Part V Reactive Signaling Molecules

17	Cellular Signaling by Reactive Oxygen Species: Biochemical Basis and Physiological Scope	313
	Michel B. Toledano, Simon Fourquet, and Benoît D'Autréaux	
18	Soluble Guanylyl Cyclase: The Nitric Oxide Receptor	337
	Doris Koesling and Ari Sitaramayya	

Part VI Cell Cycle, Cell Death and Cancer

19	Distinct Roles of the Pocket Proteins in the Control of Cell Cycle	353
	Paraskevi Vogiatzi and Pier Paolo Claudio	
20	Activation of the p53 Tumor Suppressor and its Multiple Roles in Cell Cycle and Apoptosis	375
	Luciana E. Giono and James J. Manfredi	
21	Aging and Cancer: Caretakers and Gatekeepers	397
	Diana van Heemst	
22	Signal Transduction in Embryonic Stem Cells and the Rise of iPS Cells	417
	Solene Jamet, Ruairi Friel, and P. Joseph Mee	
Index		427