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Titolo	Cyclic nucleotide signaling // edited by Xiaodong Cheng
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Descrizione fisica	1 online resource (282 p.)
Collana	Methods in Signal Transduction Series
Disciplina	571.7/4
Soggetti	Cyclic nucleotides
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Front Cover; Contents; Series Preface; Preface; Editor; Contributors; Chapter 1: Discovery of Small Molecule EPAC Specific Modulators by High-Throughput Screening; Chapter 2: Cyclic Nucleotide Analogs as Pharmacological Tools for Studying Signaling Pathways; Chapter 3: High-Throughput FRET Assays for Fast Time-Dependent Detection of Cyclic AMP in Pancreatic Cells; Chapter 4: Assessing Cyclic Nucleotide Recognition in Cells : Opportunities and Pitfalls for Selective Receptor Activation; Chapter 5: Monitoring Cyclic Nucleotides Using Genetically Encoded Fluorescent Reporters Chapter 6: Structural Characterization of Epac by X-Ray Crystallography Chapter 7: Sensory Neuron cAMP Signaling in Chronic Pain; Chapter 8: Monitoring Real-Time Cyclic Nucleotide Dynamics in Subcellular Microdomains; Chapter 9: Identifying Complexes of Adenylyl Cyclase with A-Kinase Anchoring Proteins; Chapter 10: Assessing Cyclic Nucleotide Binding Domain Allostery and Dynamics by NMR Spectroscopy; Chapter 11: A Protocol for Expression and Purification of Cyclic Nucleotide-Free Protein in Escherichia coli; Chapter 12: Cyclic Nucleotide Analogues as Chemical Tools for Interaction Analysis Chapter 13: Dissecting the Physiological Functions of PKA Using Genetically Modified Mice Back Cover
Sommario/riassunto	<P>Showcasing the recent progresses of the field, Cyclic

Nucleotide Signaling covers the major tools and methodologies used in various areas of research. The majority of the chapters are protocol oriented, with the goal of providing clear directions for laboratory use. Students and investigators new to the field will find this book particularly informative, as will scientists already actively researching nucleotide signaling.
