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Titolo	Drug discovery handbook [[electronic resource] /] / edited by Shayne Cox Gad
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Altri autori (Persone)	GadShayne C. <1948->
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Drug discovery in the 21st century: an introduction / Shayne C. Gad -- Natural products / Charles B. Spainhour -- Cancer cell proteomics using molecular aptamers / Weihong Tan, Zehui Cao, Dihua Shangguang -- Molecular similarity methods and QSAR models as tools for virtual screening / Jurgen Bajorath -- Systems biology: applications in drug discovery / Sean Ekins ...[et al.] -- High throughput flow cytometry / Larry A. Sklar ... [et al.] -- Combining NMR spectral information with associated structural features to form computationally non-intensive, rugged, and objective models of biological activity / Richard Beger, Dan A. Buzatu, Jon G. Wilkes -- Using Microsoft Excel as a laboratory data management tool / A. Erik Rubin, Mark F. Russo, William Neil -- The age of regulation / Sandy Weinberg, Gerald J. Whartenby -- Simultaneous screening of multiple cell lines using the CellCardtm system / Oren E. Beske -- Protein x-ray crystallography in drug discovery / Peter Nollert ...[et al.] -- Biological and chemistry assays available during drug discovery and developability assessment /

Duane B. Lakings -- Strategies and methods in monitoring and targeting protein-protein interactions / Arianna Loregian, Giorgio Palu -- High throughput screening: evolution of technology and methods -- Martyn N. Banks ... [et al.] -- Metal-enhanced fluorescence: application to high-throughput screening and drug discovery / Kadir Aslan .. [et al.] -- Methods for the design and analysis of replicate-experiment studies to establish assay reproducibility and the equivalence of two potency assays / Brian J. Eastwood ... [et al.] -- Coupled luminescent methods in drug discovery: three-minute assays for cytotoxicity and phosphatase activity / Michael J. Corey, Robert J. Kinders -- Design and pharmaceutical applications of prodrugs / Tomi Jarvinen ... [et al.] -- GABA and glutamate receptor ligands and their therapeutic potential in CNS disorders / Ulf Madsen ... [et al.] -- Cardiac sarcolemmal ATP-sensitive potassium channel antagonists: novel ischemia-selective antiarrhythmic agents / George E. Billman -- Factors influencing the efficacy of mediator-specific anti-inflammatory, glucocorticoid and anti-coagulant therapies for sepsis / Peter C. Minneci ... [et al.] -- Combinatorial chemistry in the drug discovery process / Nathan T. Ross, Brian R. McNaughton, Benjamin L. Miller -- Herbal medicines and animal models of gastrointestinal diseases / C.H. Cho, J.K.S. Ko -- Endocrine and metabolic agents / Brian L. Furman -- Respiratory viruses / Paul D. Olivo -- Strategies in the design of antiviral drugs / Erik De Clercq, Piet Herdewijn -- Protein kinase inhibitors in drug discovery / Keykavous Parang, Gongqin Sun -- RNA-based therapies / Ingmar Hoerr, Steve Pascolo -- Novel imaging agents for molecular MR imaging of cancer / Dmitri Artemov, Zaver M. Bhujwala -- Genomics-based drug discovery / Spyro Mousses -- Cancer drug discovery / Susan Mooberry.

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## Sommario/riassunto

The Drug Discovery Handbook gives professionals a tool to facilitate drug discovery by bringing together, for the first time in one resource, a compendium of methods and techniques that need to be considered when developing new drugs. This comprehensive, practical guide presents an explanation of the latest techniques and methods in drug discovery, including: Genomics, proteomics, high-throughput screening, and systems biology Summaries of how these techniques and methods are used to discover new central nervous system agents, antiviral agents, respiratory drugs, oncology

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