

1. Record Nr.	UNINA9910739405903321
Titolo	Disruption of protein-protein interfaces : in search of new inhibitors // Stefano Mangani, editor
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	3-642-37999-0
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (vii, 161 pages) : illustrations (some color)
Collana	Gale eBooks
Altri autori (Persone)	ManganiStefano
Disciplina	54 547 547.7
Soggetti	Protein-protein interactions
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Drug discovery by targeting protein-protein interactions -- Protein-Protein Interaction Inhibitors: case studies on small molecules and natural compounds -- Disrupting Protein-Protein Interfaces using GRID Molecular Interaction Fields -- NMR as a tool to target protein-protein interactions -- Protein-protein interactions in the solid state The troubles of crystallizing of protein- protein complexes -- Fluorescence observables and enzyme kinetics in the investigation of PPI modulation by small molecules Detection, mechanistic insight, functional consequences.
Sommario/riassunto	"Disruption of Protein-Protein Interfaces" reviews the latest developments and future perspectives in drug discovery at protein-protein interfaces, as well as including details of experimental and computational tools to tackle the subject, and highlighting the contribution of the Italian research community to the field. Evidence shows that blocking or modulating protein-protein interactions might lead to the development of useful new drugs. Consequently, in recent years great effort has been dedicated to unveiling the molecular details of protein-protein interfaces by structural techniques e.g. X-ray diffraction, NMR spectroscopy. This book, written and edited by leaders in the field, provides examples from the literature of successes and failures to develop drug-like molecules effective in interacting at

protein-protein interfaces.
