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Nota di contenuto	Target family-directed masterkeyes in chemogenomics / Gehard Muller -- Drug discovery from side effects / Hugo Kubinyi -- The value of chemical genetics in drug discovery / Keith Russell and William F. Michne -- Structural aspects of binding site similarity: a 3D upgrade for chemogenomics / Andreas Bergner and Judith Gunther -- The contribution of molecular informatics to chemogenomics: knowledge-based discovery of biological targets and chemical lead compounds / Edgar Jacoby, Ansgar Schuffenhauer, and Pierre Acklin -- Chemical kinomics / Bert M. Klebl, Henrik Daub, and Gyorgy Keri -- Structural aspects of kinases and their inhibitors / Rogier Buijsman -- A chemical genomics approach for ion channel modulators / Karl-Heinz Baringhaus and Gerhard Hessler -- Phosphodiesterase inhibitors: a

chemogenomic view / Martin Hendrix and Christopher Kallus -- Proteochemometrics: a tool for modeling the molecular interaction space / Jarl E.S. Wikberg, Maris Lapinsch, and Peteris Prusis -- Some principles related to chemogenomics in compound library and template design for GPCRs / Thomas R. Webb -- Computational filters in lead generation: targeting drug-like chemotypes / Wolfgang Guba and Olivier Roche -- Navigation in chemical space: ligand-based design of focused compound libraries / Gisbert Schneider and Petra Schneider -- Natural product-derived compound libraries and protein structure similarity as guiding principles for the discovery of drug candidates / Marcus A. Koch and Herbert Waldmann -- Combinatorial chemistry in the age of chemical genomics / Reni Joseph and Prabhat Arya.

Sommario/riassunto

Chemogenomics brings together the most powerful concepts in modern chemistry and biology, linking combinatorial chemistry with genomics and proteomics. This first reference devoted to the topic covers all stages of the early drug discovery process, from target selection to compound library and lead design. With the combined expertise of 20 research groups from academia and leading pharmaceutical companies, this is a must-have for every drug developer and medicinal chemist applying the powerful methods of chemogenomics to speed up the drug discovery process.