



Chemical Genomics

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Advances in chemistry, biology, and genomics coupled with laboratory automation and computational technologies have led to the rapid emergence of the multidisciplinary field of chemical genomics. This edited text with contributions from experts in the field discusses evolving concepts, essential techniques, and a wide range of applications to help further the study of chemical genomics. The beginning chapters provide an overview of the basic principles of chemical biology and chemical genomics. This is followed by a technical section that describes the sources of small molecule chemicals, the basics of high-throughput screening technologies, various bioassays for biochemical-, cellular-, and organism-based screens, and computational approaches. The final chapters connect the chemical genomics field with personalized medicine and the druggable genome for future discovery of new therapeutics. In selected chapters, a resource section is included for further information. This book provides an introduction to the principles of chemical genomics, serves as a resource for the associated technologies, and gives readers general concepts, useful vocabulary, practical techniques, and broad, forward-thinking perspectives. This book will be valuable to researchers, professionals, and students in many fields besides chemical genomics, including biology, biomedicine, chemistry, and drug discovery.

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