

1. Record Nr.	UNINA9910459224303321
Titolo	Chemical, biological, and functional aspects of food lipids // edited by Zdzislaw E. Sikorski, Anna Kolakowska
Pubbl/distr/stampa	Boca Raton : , : Taylor & Francis, , 2011
ISBN	0-429-15069-5 1-283-00449-6 9786613004499 1-4398-0238-6
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (500 p.)
Collana	Chemical and functional properties of food components series
Altri autori (Persone)	SikorskiZdzislaw E KosakowskaAnna <1938->
Disciplina	664.3
Soggetti	Lipids Food - Fat content Food industry and trade Electronic books.
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	Front cover; Contents; Preface; Editors; Contributors; Chapter 1. The Nomenclature and Structure of Lipids; Chapter 2. Chemical and Physical Properties of Lipids; Chapter 3. Principles of Lipid Analysis; Chapter 4. Lipids and Food Quality; Chapter 5. Lipids in Food Structure; Chapter 6. Phospholipids; Chapter 7. Cholesterol and Phytosterols; Chapter 8. Lipophilic Vitamins; Chapter 9. Lipid Oxidation in Food Systems; Chapter 10. Antioxidants; Chapter 11. Dietary Lipids and Coronary Heart Disease; Chapter 12. Role of Lipids in Children's Health and Development Chapter 13. Lipids and the Human VisionChapter 14. Plant Lipids and Oils; Chapter 15. Fish Lipids; Chapter 16. Milk Lipids; Chapter 17. The Role of Lipids in Meat; Chapter 18. Egg Lipids; Chapter 19. Modified Triacylglycerols and Fat Replacers; Chapter 20. Lipids with Special Biological and Physicochemical Activities; Chapter 21. Frying Fats; Chapter 22. Lipid-Protein and Lipid-Saccharide Interactions; Chapter 23. Contaminants of Oils: Analytical Aspects; Back cover

**Sommario/riassunto**

Chemical, Biological, and Functional Aspects of Food Lipids provides a concise, straightforward treatment of the present state of knowledge of the nomenclature, content, composition, occurrence, distribution, chemical and biological reactivity, functional properties, and biological role of lipids in food systems. Written by a team of international researchers and based on the available world literature, this book examines the nature, technological properties, reactivity, and health-related concerns and benefits of food lipids. It covers the effects of storage and processing conditions on all aspects of quality of lipid-containing foods and reviews the current state of techniques for lipid analysis. The volume also discusses the importance of lipids in the human diet and includes a comparison of dietary recommendations for lipid intake. This is a valuable reference for researchers and graduate students in food chemistry and nutrition--

---

2. Record Nr.	UNINA9910830771703321
Titolo	High-throughput screening in drug discovery [[e-book] /] / edited by Jorg Huser
Pubbl/distr/stampa	Weinheim, : Wiley-VCH [Chichester, : John Wiley, distributor], c2006
ISBN	1-280-72366-1 9786610723669 3-527-60932-6 3-527-60936-9
Descrizione fisica	1 online resource (371 p.)
Collana	Methods and principles in medicinal chemistry ; ; v. 35
Classificazione	44.38
Altri autori (Persone)	HuserJorg
Disciplina	615.19 615.1900285
Soggetti	High throughput screening (Drug development) Pharmaceutical chemistry
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	High-Throughput Screening in Drug Discovery; Foreword; List of

Contents; Preface; List of Contributors; Part I Concept of Screening; 1 Chemical Genetics: Use of High-throughput Screening to Identify Small-molecule Modulators of Proteins Involved in Cellular Pathways with the Aim of Uncovering Protein Function; 1.1 Introduction; 1.2 Classical and Chemical Genetics; 1.2.1 Forward and Reverse Screens; 1.3 Identifying Bioactive Molecules; 1.4 Target Identification; 1.4.1 Hypothesis-driven Target Identification; 1.4.2 Affinity-based Target Identification  
1.4.3 Genomic Methods of Target Identification  
1.4.4 Proteomic Methods; 1.5 Discovery for Basic Research Versus Pharmacotherapy Goals; 1.6 Chemical Genetic Screens in the Academic Setting; 1.7 Conclusions; 2 High-throughput Screening for Targeted Lead Discovery; 2.1 Chemical Libraries for High-throughput Screening; 2.2 Properties of Lead Structures; 2.3 Challenges to High-throughput Screening; 2.4 Assay Technologies for High-throughput Screening; 2.5 Laboratory Automation; 2.6 From Target Selection to Confirmed Hits - the HTS Workflow and its Vocabulary  
2.7 Separating Specific Modulators from Off-Target Effects  
2.8 Data Analysis and Screening Results; 2.9 Conclusions; Part II Automation Technologies; 3 Tools and Technologies that Facilitate Automated Screening; 3.1 Introduction - the Necessity to Automate; 3.1.1 Compound Libraries; 3.1.2 Targets and Data Points; 3.1.3 Main Issues Facing HTS Groups Today; 3.1.4 Benefits of Miniaturization; 3.1.5 Benefits of Automated HTS; 3.1.6 Screening Strategies; 3.1.7 Ultra HTS (UHTS); 3.2 Sample Carriers; 3.2.1 A Brief History of the Microplate; 3.2.2 Microplate Usage Today; 3.2.3 Microplate Arrays  
3.2.4 Non-microplate Alternatives  
3.2.4.1 Labchips; 3.2.4.2 LabCDs; 3.2.4.3 LabBrick; 3.2.4.4 Arrayed Compound Screening; 3.3 Liquid Handling Tools; 3.3.1 Main Microplate Dispense Mechanisms; 3.3.1.1 Pin Tools; 3.3.1.2 Air and Positive Displacement; 3.3.1.3 Peristaltic; 3.3.1.4 Solenoid-syringe; 3.3.1.5 Solenoid-pressure bottle; 3.3.1.6 Capillary Sipper; 3.3.1.7 Piezoelectric; 3.3.1.8 Acoustic Transducer; 3.3.2 HTS Liquid Handling Applications and Dispensing Technologies Used; 3.3.2.1 Bulk Reagent and Cell Addition; 3.3.2.2 Compound Reformatting and Nanoliter Dispensing  
3.3.2.3 Cherry Picking and Serial Dilution  
3.3.2.4 Microplate Washing; 3.4 Detection Technologies; 3.4.1 Main Detection Modalities Used in HTS; 3.4.2 Plate Readers; 3.4.3 Plate Imagers; 3.4.3.1 Macro-imaging; 3.4.3.2 Micro-imaging; 3.4.4 Dispense and Read Devices; 3.4.5 Other Detection Technologies; 3.4.6 Automation of Detection Technologies; 3.4.7 Potential Sources of Reading Error; 3.5 Laboratory Robotics; 3.5.1 Traditional Workstations; 3.5.2 Robotic Sample Processors; 3.5.3 Plate Storage Devices; 3.5.4 Plate Moving Devices; 3.5.5 Fully Integrated Robotic Systems; 3.5.6 Turnkey Workstations  
3.5.7 Automated Cell Culture Systems

---

## Sommario/riassunto

Backed by leading authorities, this is a professional guide to successful compound screening in pharmaceutical research and chemical biology, including the chemoinformatic tools needed for correct data evaluation. Chapter authors from leading pharmaceutical companies as well as from Harvard University discuss such factors as chemical genetics, binding, cell-based and biochemical assays, the efficient use of compound libraries and data mining using cell-based assay results. For both academics and professionals in the pharma and biotech industries working on small molecule screening.

---