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Titolo	Standards of mouse model phenotyping [[electronic resource] /] / edited by Martin Hrabede Angelis, Pierre Chambon, and Steve Brown
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Altri autori (Persone)	Hrabe de AngelisMartin ChambonPierre BrownStephen D. M
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Soggetti	Mice as laboratory animals Mice - Genetics Transgenic mice Phenotype Electronic books.
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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	Standards of Mouse Model Phenotyping; Foreword; Table of Contents; Preface; 1 Characterizing Hearing in Mice; 1.1 Introduction; 1.2 Behavioral Tests of Hearing; 1.3 Physiological Tests of Hearing; 1.4 Anatomy of the Ear; 1.5 Conclusions; Acknowledgements; 2 Molecular Phenotyping: Gene Expression Profiling; 2.1 Why this Screen? Medical and Biological Relevance; 2.2 Examples: Diseases of Mouse and Man; 2.3 Diagnostic Methods: History and State of the Art; 2.4 Technical Requirements for Screening Protocols (Short): First and Second Line Approaches; 2.5 Logistics (Whom, When, How Many, Why) 2.5.1 Choice of Platform2.5.2 Biological Samples; 2.6 Trouble Shooting; 2.6.1 Preparation of Hybridization Target; 2.6.2 Critical Issues of Chip Hybridization; 2.6.3 Image Processing and Array Design; 2.7 Short-term Outlook; 3 Screening for Bone and Cartilage Phenotypes in Mice; 3.1 Introduction; 3.1.1 The Skeleton; 3.1.2 Skeletal Development in the

Embryo; 3.1.3 Growth and Maintenance of Bone and Cartilage; 3.1.4 Diseases Involving Cartilage and Bone; 3.1.5 The Mouse as a Model for Skeletal Diseases; 3.2 Screening Protocols; 3.2.1 Morphological Analysis; 3.2.1.1 Protocol
3.2.2 X-Ray Analysis 3.2.2.1 General; 3.2.2.2 Imaging; 3.2.2.3 X-Ray Analysis; 3.2.2.4 Protocol; 3.2.3 DXA-Analysis; 3.2.3.1 General; 3.2.3.2 Advantages; 3.2.3.3 Disadvantages; 3.2.3.4 Small Animal Applications; 3.2.3.5 Precision and Accuracy; 3.2.3.6 Considerations; 3.2.3.7 Protocol; 3.2.4 Biochemical Bone Markers; 3.2.4.1 Clinical Utility of Biochemical Markers of Bone Turnover in Small Animals; 3.2.4.2 Mouse Markers of Bone Turnover/Metabolism and Hormonal Regulation; 3.2.4.3 Variability/Sensitivity/Sample Choice; 3.2.4.4 Which Markers Should be Used During the Screen?
3.2.5 Advanced Small Animal Imaging Techniques 3.2.5.1 pQCT; 3.2.5.2 CT; 3.2.5.3 MRI; 3.2.5.4 Whole-mount Skeletal Preparations; 3.2.5.5 Histomorphometry; 3.2.5.6 Miscellaneous; 3.2.5.7 Order of the Tests;
3.3 Conclusion; List of Abbreviations; Appendix; CT Volumetric Data Processing; MRI Principles; 4 Clinical Chemical Screen; 4.1 Introduction; 4.1.1 Relevance of the Screen; 4.1.2 Biology and Medical Application; 4.1.2.1 Biology of Clinical Chemical Parameters; 4.1.2.2 Medical Application; 4.2 Diseases in Mouse and Humans; 4.2.1 Diagnostic Impact of Clinical Chemistry
4.2.2 Clinical Chemistry in Selected Disorders 4.2.2.1 Hypercholesterolemia; 4.2.2.2 Albuminuria; 4.2.2.3 Acute Myeloid Leukemia (AML); 4.3 Clinical Chemistry as Diagnostic Tool; 4.3.1 History; 4.3.2 State of the Art; 4.4 Technical Requirements and Screening Protocols; 4.4.1 Technical Requirements; 4.4.1.1 Blood Collection; 4.4.1.2 Sample Preparation; 4.4.1.3 Sample Analysis; 4.4.2 Screening Protocols; 4.4.2.1 Primary Screen; 4.4.2.2 Secondary Screen; 4.4.2.3 Tertiary Screen; 4.5 Logistics of the Screen; 4.5.1 General Considerations; 4.5.2 Lessons from ENU Mutants; 4.6 Trouble Shooting
4.6.1 Factors Interfering In Vivo

Sommario/riassunto

This is the first book in the field of mouse genetics to provide comprehensive and standardized methods for the characterization of laboratory mice. The editor is Director of the German Mouse Clinic and member of the Project Committee of the German National Genome Research Network and provides here a brief introduction to the mouse as a model for diseases and functional analysis of genes and proteins. Throughout, he focuses on the characterization of mouse models using the latest phenotyping methods, with the different areas presented in a clearly structured and easily accessible manner.

2. Record Nr.	UNISA996465331503316
Titolo	Data Warehousing and Knowledge Discovery [[electronic resource]] : 14th International Conference, DaWaK 2012, Vienna, Austria, September 3-6, 2012, Proceedings // edited by Alfredo Cuzzocrea, Umeshwar Dayal
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ISBN	3-642-32584-X
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (XIII, 454 p. 198 illus.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 7448
Disciplina	005.74
Soggetti	Database management Data mining Information storage and retrieval Application software User interfaces (Computer systems) Database Management Data Mining and Knowledge Discovery Information Storage and Retrieval Information Systems Applications (incl. Internet) Computer Appl. in Administrative Data Processing User Interfaces and Human Computer Interaction Conference proceedings.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Data Warehouse Design Methodologies -- ETL Methodologies and Tools -- Multidimensional Data Processing and Management -- Data Warehouse and OLAP Extensions -- Data Warehouse Performance and Optimization -- Data-Mining and Knowledge-Discovery Techniques -- Data-Mining and Knowledge-Discovery Applications -- Pattern Mining -- Data Stream Mining -- Data Warehouse Confidentiality and Security -- Distributed Paradigms and Algorithms.

This book constitutes the refereed proceedings of the 14th International Conference on Data Warehousing and Knowledge Discovery, DaWaK 2012 held in Vienna, Austria, in September 2012. The 36 revised full papers presented were carefully reviewed and selected from 99 submissions. The papers are organized in topical sections on data warehouse design methodologies, ETL methodologies and tools, multidimensional data processing and management, data warehouse and OLAP extensions, data warehouse performance and optimization, data mining and knowledge discovery techniques, data mining and knowledge discovery applications, pattern mining, data stream mining, data warehouse confidentiality and security, and distributed paradigms and algorithms.
