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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
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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.
