1. Record Nr. UNINA9910133839703321

Titolo	Methods in animal proteomics / / editors, P. David Eckersall, Phillip D. Whitfield
Pubbl/distr/stampa	Chichester, West Sussex ; ; Ames, Iowa, : Wiley-Blackwell, 2011
ISBN	0-470-96064-7 0-470-96063-9 0-470-96066-3
Descrizione fisica	1 online resource (910 p.)
Altri autori (Persone)	EckersallP. D WhitfieldPhillip D
Disciplina	636.089 636.0892398
Soggetti	Proteomics - Methodology Veterinary medicine - Methodology 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	Cover; Title page; Copyright page; Contributors; Acknowledgments; Section 1: Exploring Animal Proteomes; 1 An Introduction to Animal Proteomics; 1.1 Proteomics and Animal Systems; 1.2 Exploring Animal Proteomes; 1.3 Applications of Proteomics in Animal Systems; 2 Types of Sample and Experimental Planning; 2.1 Introduction; 2.2 Types of Samples and Their Collection; 2.3 General Preparation of Body Fluids, Cultured Cells in Suspension, and Blood; 2.4 Homogenization, Clarification, and Simplification; 2.5 Determination of Protein Concentration in Proteomic Samples; 2.6 Enzymatic Digestion 2.7 Experimental Design: Strategies for Simplification and Enrichment2. 8 Specialized Techniques for Sample Preparation; 2.9 Experimental Planning and Design: General Guidelines; 2.10 Biomarker Discovery: Special Considerations for Experimental Planning; 2.11 Concluding Remarks; 3 Protein Separation Strategies; 3.1 Introduction; 3.2 "Classical" 2DE; 3.3 Other Varieties of 2DE; 3.4 Sample Complexity; 3.5 The Influence of Staining; 3.6 "Post-detection"; 3.7 Future Trends; 4 Methods and Approaches to Mass Spectroscopy-Based Protein

Identification; 4.1 Introduction; 4.2 MS
4.3 Sample Preparation4.4 Protein Identification; 4.5 Linking Mass Spectra with Proteins; 4.6 Validation of MS Data; 4.7 Conclusions; 5 Bioinformatics in Animal Proteomics; 5.1 Introduction; 5.2 Methods; 5.3 Future Trends; 5.4 Sources of Further Information; 6 Comparative Proteomic Approaches; 6.1 Global Study of Proteins; 6.2 Approaches to Characterize the Proteome; 6.3 Quantitative Proteomics; 6.4 Bioinformatics and Biostatistics; 6.5 Future Prospects; 7 Advancing Technologies for Spatial and Temporal Proteomics; 7.1 Introduction; 7.2 Investigating the Spatial Proteome
7.3 Temporal Proteomics7.4 Case Study: Spatial and Temporal Profiling in the Chicken; 7.5 Combining Spatial and Temporal Proteomics; 7.6 Recent Developments in Animal Proteomics; 7.7 Future Trends; 7.8 Conclusions; 7.9 Sources of Further Information; Section 2: Applications of Proteomics in Animal Biology; 8 Proteomic Strategies to Investigate Adaptive Processes; 8.1 Introduction; 8.2 Hibernation Physiology and Behavior; 8.3 Sampling Strategy; 8.4 Sample Collection and Storage; 8.5 Design and Execution of a Quantitative Proteomic Experiment; 8.6 Conclusion
9 Investigation of Animal Venoms and Toxins9.1 Introduction; 9.2 Natural Bioresources; 9.3 Pharmaceutical Success Stories; 9.4 The Methods in Toxin Sequencing; 9.5 Reducing Complexity by Chromatography; 9.6 Bioassay Considerations; 9.7 Classical Edman; 9.8 Overview of MS Methods for Chemical Prospecting; 9.9 Soft Ionization Methods; 9.10 Common Mass Analyzers for Peptide Analysis; 9.11 Information Obtained from Different MS Systems; 9.12 Cloning Studies; 9.13 New Developments and Future Trends; 9.14 Conclusions; 9.15 Other Sources of Information; 10 Proteomics in Animal Health and Disease
10.1 Introduction

Sommario/riassunto

The study of proteomics provides researchers with a better understanding of disease and physiological processes in animals. Methods in Animal Proteomics will provide animal scientists and veterinarians currently researching these topics in domestic animals a firm foundation in the basics of proteomics methodology, while also reviewing important advances that will be of interest to established researchers in the field. Chapters will provide practical information on a range of topics including protein identification and separation, bioinformatics, and applications to disease and reproduct

2. Record Nr. UNINA9910337530103321

Autore	Shapiro Frederic
Titolo	Pediatric Orthopedic Deformities, Volume 2 : Developmental Disorders of the Lower Extremity: Hip to Knee to Ankle and Foot / / by Frederic Shapiro
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-02021-5
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (839 pages)
Disciplina	618.927
Soggetti	Orthopedics Pediatrics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Developmental Dysplasia of the Hip -- Legg-Calve-Perthes Disease -- Slipped Capital Femoral Epiphysis and Developmental Coxa Vara -- Femoroacetabular Impingement -- Developmental Disorders of the Knee -- Torsional, Angular and Deficiency Disorders of the Lower Extremity -- Developmental Disorders of the Foot and Ankle.
Sommario/riassunto	Volume 2 of this comprehensive and state-of-the-art text on pediatric orthopedic deformities focuses on conditions of the lower extremity. Developmental disorders of the hip – developmental dysplasia of the hip (DDH), Legg-Calvé-Perthes disease (LCP), coxa vara including slipped capital femoral epiphysis (SCFE), and femoroacetabular impingement (FAI) – the knee, the ankle and foot, as well as rotational and angular deformities of the lower limb are discussed in detail. Presentation for each deformity includes: definition, detailed review of the pathoanatomy, experimental biological investigations (where applicable), natural history, review of the evolution of diagnostic and treatment techniques, results achieved with the various approaches, and current management approaches with detailed descriptions of surgical technique. Extensive illustrations, figures and photos provide clear visual depictions of the range of deformity for the various disorders, underlying histopathology, imaging findings and treatment approaches. Multiple tables provide concentrated information,

especially for the treatment options based on the severity of the particular disorder and deformity. Based on a solid understanding of the underlying pathobiology of deformities of the developing musculoskeletal system, this second volume of Pediatric Orthopedic Deformities provides a penetrating, in-depth presentation on the lower extremity for pediatric orthopedic surgeons, adult orthopedic surgeons seeking a deeper understanding of how deformities developed, and all clinicians caring for pediatric patients with developmental deformities.