

Methods in Molecular Biology™

VOLUME 155

Adipose Tissue Protocols

Edited by
Gérard Ailhaud



HUMANA PRESS

Adipose Tissue Protocols

Amin Kalaaji



Adipose Tissue Protocols:

Adipose Tissue Protocols Gérard Ailhaud, 2008-02-03 Adipose tissue is recognized to be exquisitely sensitive to hormone action and is also now recognized as a secretory and endocrine organ required for reproduction and good health. Adipocytes are smart cells able within the tissue to communicate with surrounding cells but also with various organs particularly via leptin acting on the central nervous system. Brown adipose tissue BAT and white adipose tissue WAT are known to be distinct tissues whereas the heterogeneity of WAT depots is well established. Unfortunately, excess WAT leads to obesity which is the most common health problem in industrialized countries. Therefore, from both a scientific and a technical point of view, the time has come to create a survey of adipose tissues and their neglected adipocytes. In *Adipose Tissue Protocols*, I have attempted to gather together chapters from all areas of adipose tissue research from in vivo to in vitro studies and to provide methods covering a wide variety of techniques including the choice of adipose tissue depot and of morphological techniques for the study of BAT and WAT, the isolation, subcellular fractionation and transfection of adipocytes where the low density of these cells must be taken into account, assays of nutrient and ion fluxes and the metabolic aspects of nutrient uptake, assays of lipid-related enzymes, biopsies and quantification of lipid-related mRNAs, cultures of adipose precursor cells from WAT and BAT of various species including human tissue measurements of adipose secretory products and assessment of WAT metabolism in vivo.

Brown Adipose Tissue David A. Guertin, Christian Wolfrum, 2022-02-15 This detailed volume explores techniques for researching brown adipose tissue BAT and the fascinating biology and therapeutic potential of thermogenic adipocytes. The content reflects the advancing technologies in genetics, imaging and omics strategies that are allowing researchers to probe BAT biology at unprecedented depths and detail, yet it also presents classic physiology principles which remain the core tenets of BAT biology. Written for the highly successful *Methods in Molecular Biology* series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step by step, readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Brown Adipose Tissue: Methods and Protocols* provides perspectives and detailed protocols for the benefit of both new BAT researchers looking for guidance as well as seasoned researchers who would like to expand their toolkits. Chapter 12 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Handbook of Obesity W. P. T. James, 2003-12 Offering perspectives on the history, prevalence and genetics of obesity, this book examines the origins and etiology of obesity. It considers the relationship between behavioural neuroscience and obesity.

Methods in Molecular Biology: Adipose tissue protocols John M. Walker, 1984

Human Cell Culture Protocols Joanna Picot, 2008-02-02 A thoroughly revised and updated collection of readily reproducible techniques for culturing human cells. This new edition includes a wide range of human cell types relevant to human disease and new chapters on fibroblasts, Schwann cells, gastric and colonic epithelial cells and parathyroid cells. The protocols follow the successful *Methods in*

Molecular Medicine™ series format each offering step by step laboratory instructions an introduction outlining the principle behind the technique lists of the necessary equipment and reagents and tips on troubleshooting and avoiding known pitfalls

Physiology and Physiopathology of Adipose Tissue Jean-Philippe Bastard, Bruno Fève, 2012-11-28 The scientific advances in the physiology and pathophysiology of adipose tissue over the last two decades have been considerable Today the cellular and molecular mechanisms of adipogenesis are well known In addition adipose tissue is now recognized as a real endocrine organ that produces hormones such as the leptin acting to regulate food intake and energy balance in the central nervous system a finding that has completely revolutionized the paradigm of energy homeostasis Other adipokines have now been described and these molecules are taking on increasing importance in physiology and pathophysiology Moreover numerous works have shown that in obesity but also in cases of lipodystrophy adipose tissue was the site of a local low grade inflammation that involves immune cells such as macrophages and certain populations of lymphocytes This new information is an important step in the pathophysiology of both obesity and related metabolic and cardiovascular complications Finally it is a unique and original work focusing on adipose tissue covering biology and pathology by investigating aspects of molecular and cellular biology general metabolic genetic and genomic biochemistry

Best Practice Protocols for Physique Assessment in Sport Patria A. Hume, Deborah A. Kerr, Timothy R. Ackland, 2017-12-21 This book outlines best practice protocols for body composition analysis of high performance athletes and provides guidance on the use of new technologies for anthropometry While surface anthropometry has traditionally been used to assess body composition through the internationally recognised methodology of the International Society for the Advancement of Kinanthropometry ISAK the recent commercialisation of devices such as bioelectrical impedance technologies dual energy X ray absorptiometry DXA ultrasound 3D photometry and air displacement plethysmography Bod Pod has led to the non standardised adoption of new measurement techniques In this textbook leading researchers detail standardisation procedures for each technology in terms of athlete preparation test protocols test reporting equipment calibration and data interpretation Each chapter covers a different tool how it works what it is used to measure and what the issues are surrounding its validity practicality and reliability This book provides an essential reference for device technicians and sport practitioners ensuring that high performance athletes are afforded accurate and comparable body composition information to guide their training routines

Adipose-Derived Stem Cells Jeffrey Gimble, Bruce Bunnell, Trivia Frazier, Cecilia Sanchez, 2024-03-13 Since the publication of the previous editions there has been increased focus on the use of adipose derived stromal stem cells ASC and stromal vascular fraction SVF cells in three dimensional hydrogel based scaffolds for the development of microphysiological systems MPS serving as in vitro humanized assays and alternatives to in vivo pre clinical animal models This third edition volume discusses of the latest technology and advancements in the field of human derived ASC and SVF The chapters in this book are organized into four parts Part One focuses on human ASC s isolation characterization and differentiation Part Two

describes the isolation and characterization of ASC and SVF from canine feline and murine tissues Part Three looks at hydrogels scaffolds and microphysiological systems and Part Four talks about the new assays and applications using ASC Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and comprehensive Adipose Derived Stem Cells Methods and Protocols Third Edition is a valuable resource for both novice and experts researchers interested in learning more about this important and developing field MDCT Protocols Andrea Laghi,2012-04-23 Multidetector row computed tomography MDCT has become a fundamental imaging technique for the study of many anatomical districts in different clinical situations as it provides a fast reliable and accurate simultaneous evaluation of different organs including parenchyma hollow viscera vessels and bony structures It has also equipped the radiologist with the ability to explore areas that in the last decade were largely ignored by CT especially the coronary arteries and the colon and to limit invasive diagnostic tests e g catheter angiography to those cases in which interventional procedures are required The examination quality and the consequent diagnostic accuracy of MDCT are the results of an optimized study technique which nonetheless needs to be adapted to the particular clinical situation of the patient while bearing in mind the radiation exposure Another fundamental parameter in the optimization of MDCT is the protocol for the intravenous injection of iodinated contrast material in these studies multiple variables some modifiable by the operator and others patient dependent must be considered based on the aims of maximizing arterial and venous enhancements whilst minimizing the dose of iodine injected saving money and increasing patient safety Through the presentation of cases addressing different anatomical regions and various clinical indications including emergency and neuro imaging this volume seeks to provide the general radiologist and trainee specialist with a guide to the main study protocols to be implemented in order to optimize examination quality and consequently facilitate the diagnostic process *Surface-Active Agents—Advances in Research and Application: 2012 Edition* ,2012-12-26 Surface Active Agents Advances in Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Surface Active Agents The editors have built Surface Active Agents Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Surface Active Agents in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Surface Active Agents Advances in Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **Plastic and Aesthetic Regenerative Surgery and Fat Grafting** Amin

Kalaaji,2022-05-23 Readers will discover the relatively new and rapidly growing field of regenerative surgery and fat grafting valuable for numerous plastic surgery reconstructive and aesthetic cosmetic essentials Though many books have covered specific areas or topics in regenerative surgery the market lacks a work that tackles the full spectrum of regenerative surgery and its clinical application This book responds to that need and presents chapters written by the best world renowned surgeons in their field After an introduction that reflects basic research most of the book focuses on clinical experience as it relates to applied techniques of processing fat and on the different uses from head to toe Readers will learn about the history of regenerative surgery important definitions and background information and the evidence supporting the use of regenerative surgery Practitioners will also find valuable guidance regarding the application of stem cells evaluation of patient needs and operative techniques for fat transfer Subsequent chapters address topics such as graft types the skin wound healing scar treatment osteoarthritis burns scleroderma hair rejuvenation facial enhancement combined with facelift chin augmentation with fat and breast argumentation or reconstruction with fat Particular attention is paid to gluteal augmentation with fat body contouring genital male and female rejuvenation and upper and lower extremity regenerative surgery Surgical anatomy and complications treatment and prevention were emphasized when applied This resulted is two volumes that encompass 114 chapters with multiple figures and video clips written by 242 authors including 72 female colleagues from five continents Highly informative and carefully structured this book provides invaluable insight for beginners and experienced plastic surgeons alike while benefitting advanced surgeons specialists and undergraduate and graduate students

Regenerative Medicine - from Protocol to Patient Gustav Steinhoff,2016-04-19 Regenerative medicine is the main field of groundbreaking medical development and therapy using knowledge from developmental and stem cell biology as well as advanced molecular and cellular techniques This collection of volumes on Regenerative Medicine From Protocol to Patient aims to explain the scientific knowledge and emerging technology as well as the clinical application in different organ systems and diseases International leading experts from all over the world describe the latest scientific and clinical knowledge of the field of regenerative medicine The process of translating science of laboratory protocols into therapies is explained in sections on regulatory ethical and industrial issues This collection is organized into five volumes 1 Biology of Tissue Regeneration 2 Stem Cell Science and Technology 3 Tissue Engineering Biomaterials and Nanotechnology 4 Regenerative Therapies I and 5 Regenerative Therapies II The textbook gives the student the researcher the health care professional the physician and the patient a complete survey on the current scientific basis therapeutical protocols clinical translation and practiced therapies in regenerative medicine Volume 2 contains sixteen chapters addressing advanced knowledge on Stem Cell Science and Technology addressing basic classification technology cell biology of stemness state and regulatory molecular pathways Mechanisms and technology of cell programming are explained as well as the pathology of cancer cells and dedifferentiation signalling Pluripotent multipotent germline and tissue specific human stem cells are

classified and qualified according to their respective biological function or tissue regeneration Leading stem cell scientists from all over the world explain advanced technology latest knowledge and clinical implications of human stem cell science in a unique comprehensive and detailed outline

Protocols for Cardiac MR and CT Guillem Pons-Lladó,2016-05-11 This practically oriented book opens by describing the basic Cardiac MR CMR sequences and Cardiac CT CCT acquisition techniques offering step by step guidelines on acquiring CMR and CCT studies and analyzing images The main body of the book provides a comprehensive description of the study protocols most suitable for particular diseases and discusses their respective rationales In addition it highlights key findings for every pathological condition complemented by extensive illustrations The book especially addresses the needs of junior cardiologists and radiologists embarking on the regular use of MR based and CT based cardiac imaging though it also offers a valuable reference manual for senior specialists Of particular benefit is the inclusion of both CMR and CCT techniques which are usually treated separately despite the regular use of both at advanced Cardiac Imaging Units

Advances in Biomedical Engineering Research and Application: 2012 Edition,2012-12-26 Advances in Biomedical Engineering Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Biomedical Engineering The editors have built Advances in Biomedical Engineering Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Biomedical Engineering in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Biomedical Engineering Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Avian Influenza Virus Erica Spackman,2008-02-28 With the growing global fear of a major pandemic avian influenza AI virus research has greatly increased in importance In Avian Influenza Virus an expert team of researchers and diagnosticians examine the fundamental yet essential virological methods for AI virus research and diagnostics as well as some of the newest molecular procedures currently used for basic and applied research They present exciting cutting edge new methods that focus both on studying the virus itself and on work with avian hosts an area greatly lacking in research

Fat Grafting: Current Concept, Clinical Application, and Regenerative Potential, An Issue of Clinics in Plastic Surgery Lee L.Q. Pu,2015-06-03 This issue of Clinics in Plastic Surgery offers the plastic surgeon and facial plastic surgeon reconstructive surgeon burn surgeon any surgeon working with face or body reconstruction or rejuvenation an intensive review of all aspects of working with fat The title succinctly sums it up that clinical applications currently known concepts and future expectations of working with fat for reconstructive or cosmetic surgery are presented here The Editors and their selected are peerless in the field that focuses

on biology of fat adipose derived stem cells and growth factors harvesting processing and storage of harvested fat how to maximize the results of fat grafting and safety issues with fat grafting and growth factors Practical clinical applications currently known concepts and future expectations of working with fat for reconstructive or cosmetic surgery are presented here Because of the depth and comprehensiveness of the material presented by the experts in this field this issues is presented in two parts Part 1 topics include Adipose Tissue and Stem Progenitor Cells Discovcery and Development Cryopreservation of Adipose Tissue and Adipose Derived Stem Cells Adipose Stem Cells Biology Safety Regulation and Regenerative Potential History and Development of Fat Grafting from Ram Fat to Stem Cells Condensation of Tissue and Stem Cells for Fat Grafting Can We STandardize the Techniques for Fat Grafting How Fat Survives and Remodels after Grafting The Role of Fat Grafting in Facial Rejuvenation Gluteal Augmentation with Fat Grafting the Brazilian Buttock Technique 30 Years Experience Fat Grafting for Treatment of Burns Burn Scars and other Difficult Wounds Exocytosis and Endocytosis Andrei I. Ivanov,2008 In this book skilled experts provide the most up to date step by step laboratory protocols for examining molecular machinery and biological functions of exocytosis and endocytosis in vitro and in vivo The book is insightful to both newcomers and seasoned professionals It offers a unique and highly practical guide to versatile laboratory tools developed to study various aspects of intracellular vesicle trafficking in simple model systems and living organisms **Current Utilization of Biologicals, An Issue of Facial Plastic Surgery Clinics of North America** Gregory S. Keller,2018-09-14 This issue of Facial Plastic Surgery Clinics guest edited by Greg Keller MD is devoted to Current Utilization of Biologicals Articles in this issue include Biologicals Where are we today Where are we headed Skin Biology Healing Inflammation and Repair Hair Biology Growth and Pigmentation Platelet Rich Plasma Growth factors and Office Instrumentation Mesothelial Stem Cells and Stromal Vascular Fraction Biology and Office Instrumentation Skin Rejuvenation Cosmecueticals Current Products Platelet Rich Plasma for Skin Rejuvenation and Tissue Fill Microneedling with RF and Lasers Biologicals for Skin Rejuvenation and Repair Microneedling and PRP for Moh s and Acne Scars Platelet Rich Plasma for Hair Loss Review of Methods and Results Mesothelial Stem Cells and Stromal Vascular Fraction for Wound Healing and Fat Transplantation My Results in China Lasers Microneedling and PRP for Skin Rejuvenation and Repair Mesothelial Stem Cells and Stromal Vascular Fraction for Hair Loss and Mesothelial Stem Cells and Stromal Vascular Fraction for Skin Rejuvenation *Adipogenesis* Michael S. Pepper,Melvin A. Ambele,2025-05-30 This volume details protocols in Adipogenesis research such as stem cell line isolation gene expression obesity research and drug development Written in the highly successful Methods in Molecular Biology series format the chapters include brief introductions to the material lists of necessary materials and reagents step by step readily reproducible laboratory protocols and a Notes section which highlights tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Adipogenesis Methods and Protocols aims to be comprehensive guide for researchers in the field *Comprehensive Evaluation of Various Training*

Protocols for Youth: Effects on Body Composition, Hemodynamics, and Motor Performance Jarosław Domaradzki, Cristian Alvarez, Natalia Danek, Dawid Koźlenia, 2025-08-21

The prevalence of obesity high blood pressure insulin resistance and diabetes among youth and young adults is alarmingly high in many countries primarily driven by physical inactivity and unhealthy lifestyles Despite the efforts of current health institutions and professionals effectively addressing these disorders remains a significant challenge Clinical and scientific research has demonstrated that specific exercise modalities such as high intensity interval training HIIT resistance training RT and concurrent training CT can significantly improve cardiometabolic health by providing cardiovascular metabolic and endocrine benefits through the stimulation of skeletal muscle mass and the cardiorespiratory system However the implementation of these interventions in children adolescents and young adults remains underexplored Additionally there is a gap in research focusing on the varying responsiveness to different exercise interventions especially among those who do not respond to exercise stimuli non responders Crucially understanding how early life interventions impact health outcomes into adulthood is essential for developing long term public health strategies

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Table of Contents Adipose Tissue Protocols

1. Understanding the eBook Adipose Tissue Protocols
 - The Rise of Digital Reading Adipose Tissue Protocols
 - Advantages of eBooks Over Traditional Books
2. Identifying Adipose Tissue Protocols
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Adipose Tissue Protocols
 - User-Friendly Interface
4. Exploring eBook Recommendations from Adipose Tissue Protocols
 - Personalized Recommendations

- Adipose Tissue Protocols User Reviews and Ratings
- Adipose Tissue Protocols and Bestseller Lists
- 5. Accessing Adipose Tissue Protocols Free and Paid eBooks
 - Adipose Tissue Protocols Public Domain eBooks
 - Adipose Tissue Protocols eBook Subscription Services
 - Adipose Tissue Protocols Budget-Friendly Options
- 6. Navigating Adipose Tissue Protocols eBook Formats
 - ePub, PDF, MOBI, and More
 - Adipose Tissue Protocols Compatibility with Devices
 - Adipose Tissue Protocols Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Adipose Tissue Protocols
 - Highlighting and Note-Taking Adipose Tissue Protocols
 - Interactive Elements Adipose Tissue Protocols
- 8. Staying Engaged with Adipose Tissue Protocols
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Adipose Tissue Protocols
- 9. Balancing eBooks and Physical Books Adipose Tissue Protocols
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Adipose Tissue Protocols
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Adipose Tissue Protocols
 - Setting Reading Goals Adipose Tissue Protocols
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Adipose Tissue Protocols
 - Fact-Checking eBook Content of Adipose Tissue Protocols

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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