

Adipose Tissue Protocols

Second Edition

Edited by
Kaiping Yang

Adipose Tissue Protocols

Gérard Ailhaud



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

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

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

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

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

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

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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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