

# **Brown Adipose Tissue**

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#### **Brown Adipose Tissue:**

Brown Adipose Tissue Alexander Pfeifer, Martin Klingenspor, Stephan Herzig, 2019-04-02 The main focus of this book is on brown adipose tissue and its metabolic function The book provides a timely update on the latest research and shows where the field is heading Brown adipose tissue BAT dissipates energy and has received considerable attention in the last few years having been re discovered in adult humans in 2007 9 Moreover BAT might offer a target for novel therapies to address obesity a health condition that has reached pandemic dimensions Biology and therapeutic potential of brown adipose tissue Patrick Seale, 2013-06-03 Brown adipose tissue BAT has long been recognized as a key thermogenic tissue in eutherian mammals Brown fat cells contain large numbers of highly specialized mitochondria that oxidize fat and carbohydrate to produce heat This metabolic inefficiency is due to the presence of Ucp1 in the inner mitochondrial membrane of brown fat cells which dissociates the electrochemical gradient from ATP production BAT presumably evolved to protect animals against hypothermia in response to cold exposure However energy expended by BAT has the added benefit of counteracting obesity and associated metabolic disease at least in rodents A very large number of studies have consistently shown that mice carrying increased amounts of active brown fat are lean and healthy Until recently it was generally believed that the amount of brown fat tissue was negligible in healthy adult humans However PET imaging studies have refuted this notion and revealed the existence of active BAT in most if not all adult humans Notably there is a very strong inverse correlation between the amount of activated BAT and fatness in humans Moreover activated brown fat is lost with ageing which also correlates with tendency to gain weight The field must now address whether variation in brown fat activity is a cause or consequence of weight gain Brown fat cells are localized in discrete depots of BAT and are also found as clusters interspersed in white fat tissues The prevalence and function of these so called brite brown in white cells in humans remains unknown The development of strategies to increase the amount and or activity of brown fat may hold exciting prospects for the treatment of obesity and its associated health consequences In this Research Topics issue we would propose to examine the following areas related to brown fat biology 1 Development of brown and brite cells including historical evolutionary perspective transcriptional pathways developmental origins 2 Pathways that influence brown fat cell development BMP7 TZDs Prostaglandins FGF21 3 Activation of brown fat focus on sympathetic and sensory innervation signaling by beta adrenergic receptors nerve fat connections 4 Brown fat thermogenesis in response to cold diet and hibernation 5 Brown fat in humans including human brown fat precursors methods for imaging factors that influence prevalence relationship between body mass obesity and amount of brown fat 6 Brown fat mitochondria including mechanism of uncoupling Ucp1 history structure function mitochondrial biogenesis **Insights Into Brown Adipose Tissue Functions and Browning Phenomenon** Rita De Matteis, Paula Oliver, Assunta Lombardi, 2020-04-20 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 Brown Adipose Tissue Ulf Sundin, 1981 New Perspectives in Adipose Tissue A. Cryer, R. L. R. Van, 2014-04-24 New Perspectives in Adipose Tissue Structure Function and Development reviews the state of knowledge on adipose tissue The book begins with discussions of the anatomy and morphology of adipose tissue This is followed by separate chapters on the nervous control of circulation and metabolism in white adipose tissue hormonal regulation of biosynthetic activities in white adipose tissue hormonal control of lipid degradation and plasma membrane properties and receptors in white adipose tissue Subsequent chapters cover topics such as lipoproteins and adipose tissue brown adipose tissue thermogenesis and energy balance in animals and man methodological approaches to the study of the adipose tissues adipose tissue growth following lipectomy the adipocyte precursor cell and adipose tissue dysfunction and its consequences In addition to being authoritative source material the chapters presented in this book are wide in their coverage and appeal Current Challenges for Targeting Brown Fat Thermogenesis to Combat Obesity Takeshi Yoneshiro, Matthias Johannes Betz, Patrick C. N. Rensen, Rosalia Rodriguez-Rodriguez, 2020-12-28 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiers in org about contact Adipose **Tissue** ,2019-11-06 Adipose tissue a kind of connective tissue plays different and significant roles in the human body Its function includes protection against environmental factors storage of lipids and triacylglycerol and the process of thermogenesis It is also involved in the secretion of highly active biomolecules such as steroid hormones prostaglandins as well as proteins called adipokines On the other hand disturbances in functions of adipose tissue may cause several pathologies such as obesity and insulin resistance Obesity is a worldwide health problem whereas diabetes mellitus due to insulin resistance is defined by the World Health Organization as a progressive worldwide epidemic Especially dangerous is

visceral accumulation of adipose tissue This book describes a series of up to date topics about physiological and pathological processes in adipose tissue Adipose Tissue Susanne Klaus, 2001-09-01 Today we know that white and brown adipocytes share many metabolic and molecular pathways although their physiological function i e energy storage and energy dissipation respectively are quite opposite for WAT white adipose tissue and BAT brown adipose tissue The authors in this book provide a comprehensive volume covering the whole rang Adipose Tissue Biology Michael E. Symonds, 2017-04-03 The past decade has seen an exponential increase in our knowledge and understanding of adipose tissue biology This has coincided with the continued rise in obesity across all generations Clearly despite substantial advances in research into adipose tissue this still has had limited impact on the on going obesity epidemic across a majority of countries in the world This book brings together many leading experts in the field to provide an up to date and comprehensive review of the key aspects of adipose tissue It therefore includes chapters on evolution development and inflammation together with a detailed review of brown and beige adipose tissue biology and their potential significance in preventing or combating obesity These chapters are complemented by those on genetics and gender influences together with nutrition through the life cycle Ultimately the book provides an overview of the complexities of adipose tissue biology and the continuing challenge to combat obesity in the 21st century

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