

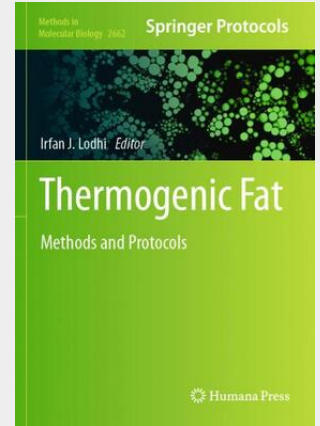
Lodhi

Thermogenic Fat

Methods and Protocols

This volume presents a broad collection of state-of-the-art methods to study the biology of thermogenic fat using in vitro cell culture and animal models. Chapters guide the readers through protocols on differentiation of human pluripotent stem cells and murine adipocyte precursors; methods for measuring mitochondrial respiration, heat generation, brown fat activation, and effects on energy metabolism in mice; and techniques for AAV-mediated gene delivery, transplantation of adipose tissue, isolation of adipose tissue immune cells and extracellular vesicles, and mass spectrometry-based profiling of brown fat lipids. Written in the format of the highly successful Methods in Molecular Biology series, each chapter includes an introduction to the topic, lists necessary materials and methods, includes tips on troubleshooting and known pitfalls, and step-by-step, readily reproducible protocols. Authoritative and cutting-edge, Thermogenic Fat: Methods and Protocols aims to be comprehensive guide for researchers in the field.

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