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Advances in Adipose Tissue Biology

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Message from the Guest Editor

Much progress in the past two decades has revolutionized our understanding of adipose tissues in the body. Fat is no longer simply thought of as a homogeneous organ that shields the body from cold and mechanical shocks. Once believed to be an inert fat depot with few biological properties, recent advances facilitated by cutting-edge 'omics' and other novel scientific methodologies have probed and elucidated the pleiotropic nature of this organ at the molecular level. The disruption of adipocyte homeostasis by both genes and the environment with consequent metabolic dysfunction contributes to system-wide inflammation that underlies many non-communicable chronic disease pandemics, such as non-alcoholic fatty liver disease, obesity, diabetes, cardiovascular diseases and even cancers.

The study of adipose biology has thus entered a new era. In this respect, this Special Issue aims to showcase scientific advances and fascinating discoveries that may not only be translated to the bedside and address the burgeoning toll exacted by obesity, diabetes and the like, but also further propel both basic scientists and clinical researchers to greater breakthroughs.



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Special Issue



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