Molecular mechanisms, clinical manifestations, and new treatments

Monogenic Hyperinsulinemic Hypoglycemia Disorders

Editors
Charles A. Stanley
Diva D. De León

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Combining basic knowledge and clinical experience

Adipose Tissue Development
From Animal Models to Clinical Conditions

Editors
C. Levy-Marchal
L. Pénicaud

From Animal Models to Clinical Conditions

Adipose Tissue Development

Nowadays, adipose tissue is not only regarded as an organ of storage related to fuel metabolism but also as an endocrine organ involved in the regulation of insulin sensitivity, lipids and energy metabolism.

These proceedings cover the nervous regulation of both white and brown adipose tissue mass. Different physiological parameters such as metabolism (lipolysis and thermogenesis) and secretory activity (leptin and other adipokines) are reviewed. The plasticity of adipose tissue (proliferation, differentiation and apoptosis) showing the presence of a neural feedback loop between adipose tissue and the brain, which plays a major role in the regulation of energy homeostasis, is discussed.

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Both parents and offspring are susceptible to adverse environmental conditions that alter their normal brain development and adaptations during reproduction, increasing their risk of mental problems in the short and long term. Pregnancy stress and anxiety alter the cognitive performance, memory, and behavior of mothers. Resulting in suboptimal maternal hormonal signals and inadequate care, they impact directly and indirectly on the developing baby in utero and in the neonatal stage.

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From Animal Models to Clinical Conditions

Editors
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HORMONE RESEARCH IN PÆDIATRICS
From Developmental Endocrinology to Clinical Research

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