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Brown adipose tissue location

Where is brown adipose tissue found in adults. Location of white and brown adipose tissue. Brown adipose tissue location in mice. Where is brown adipose tissue found. Brown adipose tissue location in humans.

PDF Split View article article content Figures and tables Video Audio Data Supplemental leptin is synthesized exclusively by adipocytes and acts in the hypothalamus to regulate the energy equilibrium. Previous studies of Messenger RNA expression demonstrated that leptin is expressed in white adipocytes and also in brown adipose tissue, however brown fat expression is markedly smaller than in white fat. This suggests the possibility that leptin expression in brown adipose tissue is due to the presence of white adipocytes that reside within the brown adipose tissue, and that brown adipocytes actually do not express leptin. To resolve this point, we realized immunohistochemical in paraffin sections and studied leptin protein expression at different white and brown fat deposits of Lean and obese rats (DB / DB). To establish the type of calanula expressing leptin, we also evaluated the size and organization of lipids, the ultrastructural characteristics of mitochondria, and the presence or absence of decoupling protein, a marker of Brown fat. In the white adipose tissue of fleshy and obese mice (DB / dB), the leptin protein was expressed in adipocytes of several sizes (variation examined: 19.67 - 200 μ m), including adipocytes in the stage multilocular of differentiation. The leptin coloring was more intense in some deposits (retroperitoneal) and seemed to decrease with fasting. In the brown adipose tissue of lean animals, multilocular brown adipocytes (UCP) - positive brown adipocytes had mitochondria pipelines and were negative of leptin, both in conditions fed and fasted. In the periphery of the interscapular brown adipose tissue deposite, unilocular, UCP negative adipocytes (Di-Dio Diameter: 41.55 μ m) with white type mitochondria, and these cells were positive of leptin. In obese animals (DB / DB), brown fat was composed mainly of small non-positive adipocytes UCP (DIARM MONTER: 40.08 μ m), which were also positive from leptin. In the periphery of the oiler, numerous large negative adipocytes, unilocular and UCP (Di-Dio Diameter: 73.65 μ m) with white mitochondria were present. As expected, these cells are also positive of leptin. In summary, the classical brown adipocytes differ from white adipocytes, not only by its morphology and expression of UCP, but also for its apparent lack of leptin expression. Brown db / dB adipocytes, however, were unilocular and positive leptin. The molecular mechanisms by mediating leptin expression in white adipocytes, but not brown adipocytes of lean animals, and the significant expression of leptin in brown adipocytes of DB / dB mice will be the focus of future studies. The recent discovery of leptin and its receptor opened important new avenues for obesity research (1-4). The leptin is synthesized by adipose tissue (1, 6, 7) and acts on the hypothalamus, causing decrease in food intake and increased energy expenses (8-10), and as such can be part of a feedback loop regulating body fat stores. The adipose tissue is composed of many types of cells, including endothelial cells, fibroblasts, muscular vessel cells, schwann cell cells, preadipocytes, young adipocytes and ripe adipocytes containing variable amounts. Until now, published studies were unusual in indicating that the Leptin Messenger RNA (MRNA) in white fat is expressed exclusively by mature white adipocytes (6, 11-13). The constituency of leptin in brown fat, however, is a bit controversial because some authors report the minimum expression (7, 11, 14), while others relate to considerable levels (1-4).

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