



Cover: *In vitro* differentiated murine brown adipocytes, stained for lipids (green), F-actin (red) and DNA (blue), are an excellent tool to study the role of adipocytes in energy homeostasis and the endocrine regulation of metabolism. While white adipose tissue is the primary site for storing excess energy, brown adipocytes expend energy through mitochondrial uncoupling. Adipose is organized into individual depots distributed throughout the body, with distinct metabolic and physiological functions. Moreover, individual adipose depots are composed of multiple distinct adipocyte lineages defining their function. Schoettl and colleagues (jeb162958) review the metabolic role of individual adipose depots and the contribution of individual adipocyte lineages. Picture credit: Ruth Karlina and Kenji Schorpp, Helmholtz Zentrum München.

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