**Table S1.** Summary of characterizations of the different types of adipocytes BMAT, WAT, BAT, BeAT, and PAT.

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| --- | --- | --- | --- | --- | --- |
| **Adipocyte type** | **BMAT** | **WAT** | **BAT** | **BeAT** | **PAT** |
| Anatomical location | cBMAT: Distal long bones.rBMAT: Proximal regions of long bones and spinal vertebrae | Subcutaneous (abdominal, femoral-gluteal) Visceral (mesenteric, omental, retroperitoneal, perigonadal) regions | Supraclavicular,Periadrenal, Paravertebral,Cervical,Axillary,Paraspinal regions | Supraclavicular regions | Mammary gland |
| UCP-1 level | Low expressed | Low expressed | High expressed | High expressed | Low expressed |
| Mitochondrial number | Medium | Low | High | Medium | Not known |
| Vascularization  | Medium  | Low | High | High | Not known |
| Functions | Hematopoiesis,Bone remodeling, Cholesterol metabolism, Adipokine-immune regulation | Energy and fat storage, Endocrine organ regulating hunger, Glucose homeostasis | Non-shivering thermogenesis mediated by UCP1 | Thermogenesis is UCP1-independent and is mainly regulated through Ca2+ and creatine cycling | Induces milk secretion during lactation  |

BMAT, bone marrow adipose tissue; WAT, white adipose tissue; BAT, brown adipose tissue; BeAT, beige adipose tissue; PAT, pink adipose tissue; cBMAT, constitutive BMAT; rBMAT, regulated BMAT; UCP1, uncoupling protein 1.