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Lipolytic and thermogenic depletion of adipose tissue in cancer cachexia.Maria Tsoli¹, Michael M. Swarbrick² and Graham R. Robertson^{3*}**AFFILIATIONS.**¹Children's Cancer Institute, Lowy Cancer Research Centre, UNSW Randwick NSW 2031 AUSTRALIA.²Centre for Diabetes, Obesity and Endocrinology, Westmead Millennium Institute, University of Sydney, NSW, AUSTRALIA³Charles Perkins Centre, School of Molecular Biosciences, University of Sydney, NSW 2006, AUSTRALIA

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Email: graham.robertson@sydney.edu.au**KEY WORDS: cancer cachexia, IL-6, adipose tissue, lipolysis, brown fat, thermogenesis.****ABBREVIATIONS:**

AT, adipose tissue; ATGL, adipose triglyceride lipase; AMPK, AMP activated kinase; BAT, brown adipose tissue; CGI58, comparative gene identification 58; CIDEA, Cell death induced DNA fragmentation-factor- α -like effector A; CT, computed tomography; G0S2, G0G1 switch protein; HSL, hormone sensitive lipase; IR insulin resistance; JAK, janus kinase; PDK1/4, pyruvate dehydrogenase kinase 1 or 4; PRDM16, PR domain containing 16; PTHrP, parathyroid hormone-related protein; STAT3, signal transducer and activator of transcription 3; SAT, subcutaneous white adipose tissue; SOCS3, suppressor of cytokine signaling 3; T2M, type 2 diabetes mellitus; UCP1, uncoupling protein 1; VAT, visceral adipose tissue; WAT white adipose tissue.

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