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DEGLI STUDI
DI PADOVA

MYO-TUMOUR: A novel role for skeletal muscle in tumour growth and proliferation

Cachexia is a complex metabolic syndrome characterised by loss of muscle and fat, related to an underlying illness such as cancer. It is the direct cause of at least one in five cancer-associated deaths and is also associated with reduced responsiveness to chemotherapy and reduced tolerance to anticancer treatment. Tumour-induced muscle wasting is due to an impaired ability to stimulate muscle protein synthesis (so-called anabolic resistance). Preliminary evidence showing that skeletal muscles release factors that may affect tumour growth and proliferation suggest that there may be muscle-tumour crosstalk. With the support of the Marie Skłodowska-Curie Actions programme, the MyoTumour project will attempt to identify these factors and their effects on tumours.

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