



Myo_LysoZOOM - An insight into lysosomal signature in muscle wasting

Muscle wasting is the severe and progressive loss of muscle mass experienced in different pathological conditions such as cancer. The outcome of this debilitating condition on human health is detrimental; the effect on society is a public health burden. Attenuating muscle wasting ameliorates prognosis and survival in some circumstances; nevertheless, to date, a proper therapy preventing muscle loss is lacking. Partially responsible for this, is the fragmented knowledge of the signals controlling muscle homeostasis. Here I propose Myo_LysoZOOM as the groundbreaking tool for unraveling the mysterious relationship between lysosomal signaling and muscle atrophy. Through the harmonic and complementary interaction between me and the two groundbreaking realities, Whitehead Institute for Biomedical Research (MIT) and University of Padova, I will become the interpreter of this secret code named lysosomal signature in muscle wasting. Reinforcing my technical skills and boosting my scientific knowledge, this Marie Curie action will allow me to assume a unique prominent position in the European myology landscape. In turn, this will foster the development of a new research line through which I will be able to actively participate in the fighting against muscle wasting. Concluding, Myo_LysoZOOM will build a long-term terrific impact on European research, innovation, science and society.

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