

## Emanuele Berardi, PhD

1) Laboratory of Tumor Inflammation and Angiogenesis, VIB-KU Leuven Center for Cancer Biology, Department of Oncology, KU Leuven; 2) Tissue Engineering Laboratory, Department of Development and Regeneration, KU Leuven campus Kulak, Kortrijk, Belgium

### - Biographical Sketch -

Emanuele Berardi is a senior scientist with strong background in muscle biology and pathophysiology. He obtained his PhD in 2010 from Sapienza University in Rome, where he investigated the role of physical activity in counteracting cancer-induced cachexia. As a postdoc he moved to Belgium, where he studied muscle stem cells at the Stem Cell Institute and human movement physiology at the Department of Movement Sciences at the KU Leuven. In the Laboratory of Tumor Inflammation and Angiogenesis at the Center for Cancer Biology (VIB-KU Leuven), he focuses his studies on the metabolic regulation of immune cell populations in different skeletal muscles pathological conditions, spanning from aging to dystrophy.

### References

Macrophage-derived glutamine boosts satellite cells and muscle regeneration. Min Shang..., Emanuele Berardi,<sup>#,§</sup> and Massimiliano Mazzone<sup>#,§</sup>. *Nature* (2020) Nov; 587(7835):626-631.

Aerobic Exercise and Pharmacological Treatments Counteract Cachexia by Modulating Autophagy in Colon Cancer. Eva Pigna<sup>#</sup>, Emanuele Berardi<sup>#</sup>, et al. *Scientific Reports* (2016) May 31;6:26991. doi: 10.1038/srep26991.

Spontaneous Physical Activity Downregulates Pax7 in Cancer Cachexia. Dario Coletti..., Emanuele Berardi. *Stem Cells International* (2016) 2016:6729268. doi: 10.1155/2016/6729268. Epub 2015 Dec 20.

NF- $\kappa$ B-mediated Pax7 dysregulation in the muscle microenvironment promotes cancer cachexia. He WA, Berardi E, et al. *Journal of Clinical Investigation* (2013) Oct 1. pii: 68523.

Molecular, cellular and physiological characterization of the cancer cachexia-inducing C26 colon carcinoma in mouse. Aulino P<sup>#</sup>, Berardi E<sup>#</sup>, et al.. *BMC Cancer* (2010); 10:363.

Skeletal muscle is enriched in hematopoietic stem cells and not inflammatory cells in cachectic mice. Berardi E, et al. *Neurological Research* (2008); 30:160–169.

# equally contributed