

PhD Program in Biomedical Sciences

Students 2019-2020 | XXXV cycle



Eugenia Carraro

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research line: Diaphragm muscle diseases in three dimensional model

Diaphragm is an essential skeletal muscle affected by different congenital and mechanical defects, the aim of my PhD project is to generate in vitro, through tissue engineering approaches, 3D constructs of diseased diaphragmatic muscles, with a special focus on DMD, for physiological analysis and drug screening.



Chiara Cioccarelli

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Federico Fabris

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research line: study of the inhibitory activity of botulinum neurotoxins on the enteric neurons system

My PhD is focused on the evaluation of the effects of Botulinum Neurotoxins (BoNTs) on the enteric nervous system and immune system. The core of my work is the use of different serotypes of BoNTs both in vitro and in vivo to analyze with immunofluorescence and electrophysiological assays how the neuroinhibitory action of the toxin affects a very complex organ as the gut.



Alessia Geremia

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research line: role of mTOR in skeletal muscle during cancer cachexia

In this project we aim to dissect the importance of mTOR signaling in skeletal muscle during cancer cachexia. Furthermore, we will examine the role of muscle mTOR during reversal of cancer cachexia and for the beneficial effects of exercise. To assess the function of mTOR during cancer cachexia we used two loss of function mouse models in which we have deleted either mTOR or Raptor only in adult skeletal muscle.



Gloria Orlando

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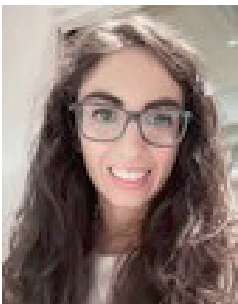


Camilla Pezzini

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research line: BMP signalling in Cancer Cachexia

My PhD project is focused on the study of the Bone and Morphogenetic Proteins (BMP) pathway and its critical role for the onset of cancer cachexia. The aim of the project is the dissection of BMP-dependent cachexia signature in rodents and patients in order to better understand the insights of BMP modulators and their beneficial effects in clinic to prevent cachexia onset in cancer patients.



Federica Placa

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research line: Mitochondrial calcium signaling in health and disease

My PhD project aims to dissect the role of mitochondrial calcium uptake in skeletal muscle diseases. In particular, I wish to understand how mitochondrial calcium dysregulation is involved in Duchenne Muscular Dystrophy (DMD) in order to find new therapeutic strategies.



Marco Ronfini

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Marco Sacalbrin

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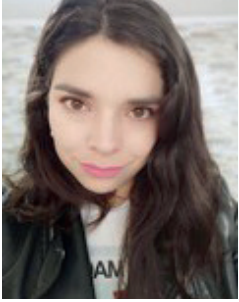
research line: A novel link between the Ubiquitin Proteasome System and mitochondrial function to control muscle mass

My PhD project is focused on the role of the muscle-specific E3 ubiquitin ligase Asb2b, a novel regulator of muscle mass. Asb2b is so far, the only E3 ubiquitin ligase sufficient to induce muscle atrophy when overexpressed. However, how Asb2b activates an atrophy program and which are its specific substrates are unexplored issues. My purpose is dissecting Asb2b cellular function by loss-of-function approaches.



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