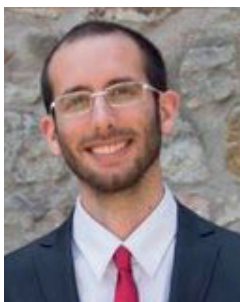


PhD Program in Biomedical Sciences

Students 2017-2018 | XXXIII cycle



Andrea Carrer

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research line: Features of the mitochondrial megachannel in mitoplasts from cells lacking mtDNA or subunits g/f/b/OSCP of F-ATP synthase

I dissect the role of selected subunits of F-ATP synthase enzyme in the formation and properties of mitochondrial megachannel, with implications in mitochondrial permeability transition. I used both electrophysiological technique (patch clamp) and live cell imaging.



Rosa Chiara Goisis

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research line: GABA tonic inhibition and astrocytes role in Dravet Syndrome

I am working in Giorgio Carmignoto's lab and my PhD project is on GABA tonic inhibition and astrocytes role in Dravet Syndrome (a mainly genetic form of epilepsy). The technique that I am using to this aim are mainly electrophysiology, immunohistochemistry but also some in vivo approaches with the final aim to unveil the mechanism(s) underlying this disease.



Alessandro Grinzato

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research line: theoretical methods and practical application of Cryo-EM technique

My PhD project is focused on solving challenging protein structures using Cryo-EM. I joined the resolution revolution when it started and now I am working on viruses, membrane proteins, protein complexes and toxins. My fun zone? From the purified sample to the refined structure.

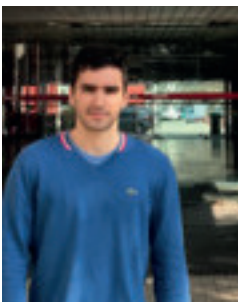


Cristina Liboni

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research line: Mesenchymal stromal cells in the pathophysiology of arrhythmogenic cardiomyopathy.

My project focuses on the study of Arrhythmogenic cardiomyopathy (AC), which is the major cause of sudden death in young people and athletes. In particular, our goal is to characterise the role of mesenchymal stromal cells (MSCs) and of the immune system as drivers in the pathogenesis of the disease.



Mislav Majnarić

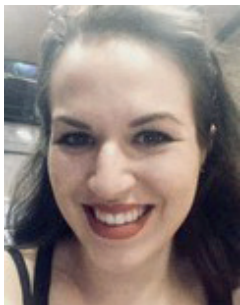
mislav.majnarić@studenti.unipd.it

**Caterina Marchioretta**

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research line: Polyglutamine-expanded androgen receptor (AR) alters excitation-contraction coupling machinery and calcium dynamics

The aim of my PhD project is to clarify the role of AR in muscle in physiology and disease with a particular attention on the excitation-contraction coupling machinery.

**Elisabetta Marcuzzi**

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research line: Exploiting MSC-derived extracellular vesicles to control pathological angiogenesis

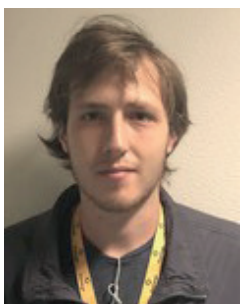
Our laboratory previously demonstrated that bone marrow derived mesenchymal stromal cells (BM-MSCs) primed with pro-inflammatory cytokines produce extracellular vesicles inhibiting angiogenesis. Thus, the aim of my PhD project is to verify if these can control angiogenesis in tumor and to clarify their mechanism of action and biodistribution.

**Elena Monti**

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research Line: neuromuscular system plasticity in response to aging, training and disuse

I screened via ultrasound sarcopenic and non-sarcopenic elderly, in order to identify muscular parameters that were easy-recordable and cost-effective and could be useful to evaluate the clinical muscular status. Also, I worked on the effects of long-lasting exercise practice on the stability of the neuromuscular junction. I investigated the effects of different exercise protocols and both acute and chronic unloading procedures on the neuromuscular control and stability and muscle/single fibres function and size in a young population.

**Marco Stazi**

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research line: The effect of Melatonin in neurodegenerative processes at the level of peripheral nervous system

I am studying the involvement of different molecules in the regenerative process of the peripheral nervous system. I focus my attention on the positive effect of melatonin during nerve regeneration that I follow up using mainly immunofluorescence and electrophysiology analysis. I am using both in vitro and in vivo models such as the envenoming with neurotoxin and the mechanical trauma of the sciatic nerve.



Anna Stocco

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research line: The mitochondrial permeability transition pore (PTP) as a drug target in Duchenne muscular dystrophy

My project focuses on the study of Duchenne muscular dystrophy and in particular on the involvement of the permeability transition pore (PTP) in disease pathogenesis. The aim of this project is to evaluate the efficacy of new PTP inhibitors both in cells from patients and in the sapje zebrafish model.



Federica Tonolo

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research line: studies of antioxidant and pro-oxidant molecules in cell signalling through thiol redox regulation

My major research field regards antioxidant food-derived bioactive peptides, in particular milk and soy. I am studying both already identified and new synthetic peptides in order to understand their effects on human cells, focusing on their intestinal barrier crossing capacity and the role of these molecules in the regulation of cell redox signalling.”



Vanessa Jorge Henriques

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research line: Reciprocal signaling between specific GABAergic interneurons and astrocytes

The general goal of my PhD project is to gain further insights into the GABAergic interneuron signaling to astrocytes, focusing on SST interneurons, in the primary visual cortex.