

MSCA PF 2021 @UniGe

Supervisor Expression of Interest

MSCA domain Life Sciences (LIF)

- 1. Pietro Ameri**
- 2. Santina Bruzzone**
- 3. Laura Canesi**
- 4. Anna Fassio**
- 5. Chiara Gentili**
- 6. Lucio Marinelli**
- 7. Francesco Piacente**
- 8. Edoardo Raposio**
- 9. Roberta Tasso**
- 10. Marco Testa**
- 11. Stefano Vanin**
- 12. Luigi Vezzulli**

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1.

First Name	Pietro
Last Name	Ameri
Orcid ID	0000-0001-7167-7287
Other information	https://rubrica.unige.it/personale/VodPW1r
MSCA domain	Life Sciences (LIF)
Research focus area	Cardiovascular medicine
Department	Department of Internal Medicine - DIMI
Short description of the department/laboratory/research group	<p>The Laboratory of Cardiovascular Biology belongs to the Department of Internal Medicine of the University of Genova in Genova, Italy. It is located within the IRCCS Ospedale Policlinico San Martino, a teaching hospital with both clinical and research facilities, in a building specifically dedicated to basic and translational research. Other laboratories that perform research in the cardiovascular field are situated at the same floor where the Laboratory of Cardiovascular Biology is, and share with it some pieces of equipment. The research work performed by the Laboratory of Cardiovascular Biology aims at identifying and characterizing the molecular and cellular mechanisms and, thereby, potential therapeutic targets for cardiovascular disorders. A well-known, clinically-relevant disease often represent the background model for a project. The main lines of research currently pursued are: the interactions between cancer, anticancer therapies and the heart; the cross-talk between cardiomyocytes and cardiac fibroblasts; and the pathogenesis of pulmonary hypertension. The Principal Investigator is Dr. Pietro Ameri, MD, PhD, Associate Professor in Cardiovascular Medicine. The</p>



	laboratory personnel includes one post-doc researcher, one PhD student, and three technicians.
Candidate fellows must send their candidature with a short description of their profile to the following email address	pietroameri@unige.it

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2.

First Name	Santina
Last Name	Bruzzone
Orcid ID	0000-0003-2034-3716
Other information	https://rubrica.unige.it/personale/UkNHW1tr
MSCA domain	Life Sciences (LIF)
Research focus area	Our group is interested in investigating the physiopathological relevance of NAD, sirtuins and CD38 in different conditions, including (dys)metabolism/obesity, aging and cancer, to identify new possible targets for future interventions.
Department	Department of Experimental Medicine
Short description of the department/laboratory/research group	Our research group is active at the Section of Biochemistry of the Dept of Experimental Medicine. Our laboratories are equipped to carry out experiments in Biochemistry, Molecular Biology and Cell Biology fields, with cell culture, confocal microscopy, determination of intracellular calcium movements, enzymatic activities, determinations of metabolites through HPLC and MS-HPLC.
Candidate fellows must send their candidature with a short description of their profile to the following email address	santina.bruzzone@unige.it

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3.

First Name	Laura
Last Name	Canesi
Orcid ID	0000-0003-2061-3819
Other information	https://rubrica.unige.it/personale/VUZBWFgs
MSCA domain	Life Sciences (LIF)
Research focus area	Environmental physiology, impact of stress on physiology of marine invertebrates
Department	Dept. of Earth, Environmental and Life Sciences (DISTAV)
Short description of the department/laboratory/research group	The Environmental Physiology team at DISTAV is experienced in the evaluation of the responses of marine invertebrates to environmental stress, from the molecular to the organism level, mainly utilizing the model species <i>Mytilus</i> . Particular interest is given to the effects and mechanisms of action of emerging contaminants (endocrine disruptors, pharmaceuticals, nanomaterials) and marine pathogens (vibrios). The lab. is equipped with all basic and advanced equipment in cell and tissue physiology and molecular biology.
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4.

First Name	Anna
Last Name	Fassio
Orcid ID	0000-0002-8801-038X
Other information	https://rubrica.unige.it/personale/VUZBWllq
MSCA domain	Life Sciences (LIF)
Research focus area	Neuroscience-Synaptic physiology
Department	Department of Experimental Medicine
Short description of the department/laboratory/research group	Laboratory of cellular neurophysiology with equipment for cell culture, live imaging, electrophysiology and facility for ultra-structural analysis and super-resolution microscopy. The research activity is on the molecular mechanisms of neurotransmitter release and synaptic vesicle trafficking and the involvement of synaptic genes in neuronal development, synaptic formation and function.
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5.

First Name	Chiara
Last Name	Gentili
Orcid ID	0000-0001-6745-3782
Other information	https://rubrica.unige.it/personale/VUZBU15r
MSCA domain	Life Sciences (LIF)
Research focus area	Stem cell biology, regenerative medicine, Extracellular vesicles, Bone and cartilage regeneration
Department	Department of Experimental Medicine - DIMES
Short description of the department/laboratory/research group	She has been involved for several years in projects involving mesenchyme progenitors in both basic science and applicative aspects. Her main research interests include the regeneration and repair of skeletal tissue (cartilage, bone) both in animal and human. She has been responsible of several national and international research projects and author of 51 papers and review articles. Dr Gentili was a speaker at several national and international congresses and meetings. She is a member of Ph.D Program "Biotechnology in Translational Medicine" at UNIGE. During the last 10 years, She has been granted, as PI or co-PI, more than 1. 600. 000 euros for research projects in regenerative medicine. The main research interests of Prof. Chiara Gentili include the regeneration and repair of skeletal tissue (cartilage, bone) both in animal and human, using cellular approaches but also studying the potential use of MSC "secretome"/exosomes in terms of factors secreted by the cells.
Candidate fellows must send their candidature with a short description	chiara.gentili@unige.it



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of their profile to the following email address	
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6.

First Name	Lucio
Last Name	Marinelli
Orcid ID	0000-0003-0620-7654
Other information	https://rubrica.unige.it/personale/VUZBU190
MSCA domain	Life Sciences (LIF)
Research focus area	Neurophysiological investigation of central and peripheral nervous system in neurological disorders
Department	Department of Neuroscience, Rehabilitation, Ophthalmology, Genetics, Maternal and Child Health (DiNOGMI)
Short description of the department/laboratory/research group	The research labs are located within IRCCS Ospedale Policlinico San Martino in Genova. One lab located within Neurorehabilitative unit involves mainly neurological patients undergoing post-stroke and post-COVID rehabilitation using electromyography, transcranial magnetic stimulation and botulinum toxin injection. The other lab is within Clinical Neurophysiology unit, involving mainly patients with peripheral nervous system diseases, epilepsy and movement disorders
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7.

First Name	Francesco
Last Name	Piacente
Orcid ID	0000-0001-5470-5987
Other information	https://rubrica.unige.it/personale/VotOUI5q
MSCA domain	Life Sciences (LIF)
Research focus area	NAD Biochemistry, Glycobiology, Translational research in cancers
Department	Department of experimental medicine (DIMES)
Short description of the department/laboratory/research group	Our young research group explores different areas of research with a special focus on Triple-Negative Breast Cancer. The two main fields of research are the cancer NAD biology, in particular the NAD producing enzymes role in cancer development; and the Glycobiology of cancer, in particular the role of differential glycosylation on tumor cells and how we can take advantage of this to treat cancer. Our Laboratory is within the Section of Biochemistry, Department of Experimental Medicine. Our laboratory is equipped with a cell culture room, bacteria culture room (equipped to produce recombinant proteins), a molecular biology room (equipped to perform PCR and qPCR), HPLCs, spectrophotometers and fluorimeters, a confocal microscopy. In addition, we can have access to other instruments of the Department such as a transmission electron microscopy (TEM) and a Mass Spectrometry lab.
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8.

First Name	Edoardo
Last Name	Raposio
Orcid ID	0000-0001-7200-0243
Other information	https://rubrica.unige.it/personale/VUZCU1tg
MSCA domain	Life Sciences (LIF)
Research focus area	Plastic Reconstructive Surgery, Regenerative Medicine, Wound Healing
Department	Department of Surgery and Integrated Diagnostics (DISC)
Short description of the department/laboratory/research group	Plastic and Reconstructive Surgery Division
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9.

First Name	Roberta
Last Name	Tasso
Orcid ID	0000-0003-0956-7006
Other information	https://rubrica.unige.it/personale/UkNGWlxo
MSCA domain	Life Sciences (LIF)
Research focus area	Stem cells, extracellular vesicles
Department	Department of Experimental Medicine (DIMES)
Short description of the department/laboratory/research group	The main focus of our projects is to isolate and characterize extracellular vesicles from different sources (stem cell-supernatants, biofluids) to study their interaction with innate immune cells and endogenous progenitors.
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10.

First Name	Marco
Last Name	Testa
Orcid ID	0000-0001-8643-7200
Other information	https://rubrica.unige.it/personale/VUZBU1xo
MSCA domain	Life Sciences (LIF)
Research focus area	Rehabilitation
Department	Department of Neuroscience, Rehabilitation, Ophthalmology, Genetics, Maternal and Child Science (DINO GMI)
Short description of the department/laboratory/research group	The Rehabilitation Engineering Laboratory (REHElab) was born as a spin-off of the Master in Rehabilitation of Musculoskeletal Disorders with the aim of developing precision technologies and cutting-edge methods to be made accessible and usable to rehabilitation professionals. Scientific research is carried out by a multidisciplinary team made up of physiotherapists, psychologists, bioengineers and physicists. These various highly specialized professionals integrate clinical competencies with typical engineering knowledge and methodologies. Using state-of-the-art equipment, REHElab has developed and carries out various lines of research including: Human Activity Recognition (HAR); Development of Exergame in Immersive Virtual Reality; Modulation of contextual factors in the treatment of musculoskeletal disorders; Motion analysis through IMU and force sensors; Study of kinetic parameters and motor control of the strength of the masticatory muscles; Analysis of the motor control of the force in the gripping movements of the hand



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11.

First Name	Stefano
Last Name	Vanin
Orcid ID	0000-0003-1676-5916
Other information	https://rubrica.unige.it/personale/UkJCX1pq
MSCA domain	Life Sciences (LIF)
Research focus area	Entomology (Forensic and Archaeology)
Department	Department of Earth, Environmental and Life Sciences (DISTAV)
Short description of the department/laboratory/research group	<p>The research developed by the "FLEA" research group combines the morphological and the molecular approach for the correct species identification of entomological samples both from nowadays forensic cases, mainly from Italy, and archaeological samples from all over the world. In fact, at the present the FLEA people are carrying out studies on samples collected from Italian mummies and from Peruvian and Saharan archaeological excavations. The aims of the studies in these contexts can be summarized in: 1) Description of the entomo/arthropod-fauna associated with human and animal remains and with offerings to a better understanding of the funerary practice, of the transformation of the "biodiversity" through the time and to implement the information useful in forensic cases, especially old cases. 2) Research of ectoparasites and characterization of DNA of potential pathogens carried by them 3) Detailed description of puparia and other immature developmental stages of poorly investigated, or very "confused" taxa, mainly Diptera, and analysis of the taphonomic process</p>



	affecting the "survival" and the transformation of the puparia depending on the environmental and historical context. 4) Optimization of techniques and protocols for DNA extractions from archaeological contexts
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12.

First Name	Luigi
Last Name	Vezzulli
Orcid ID	0000-0002-4368-1454
Other information	https://rubrica.unige.it/personale/UkNHWIJs
MSCA domain	Life Sciences (LIF)
Research focus area	MARINE MICROBIOLOGY: Study of the Biology, Ecology and Epidemiology of Marine Microbial Pathogens through Molecular ecology, Genomic and Metagenomic approaches including the development and application of bioinformatics pipelines
Department	Department of Earth, Environmental and Life Sciences (DISTAV)
Short description of the department/laboratory/research group	The Microbiology team at DISTAV is experienced in the field of Marine Microbiology and focus its research on the Study of the Biology, Ecology and Epidemiology of Marine pathogenic bacteria belonging to the Vibrio genus. The laboratory is equipped with all basic and advanced equipment in the field of Microbiology and Molecular biology. Further information can be found at https://luigivezzulli.weebly.com/
Candidate fellows must send their candidature with a short description of their profile to the following email address	luigi.vezzulli@unige.it