

Surname: Perucca Orfei

Name: Carlotta

E-mail: carlotta.perucca@grupposandonato.it

ORCID ID: 0000-0001-6162-8668

Scopus author ID: 56955652900

Researcher ID: B-1436-2017

Education

2013 - 2017: PhD in Chemical and Pharmaceutical Sciences at University of Pavia, resident at Orthopedic Biotechnology Laboratory, held by Dr. Laura de Girolamo, at IRCCS Istituto Ortopedico Galeazzi (Milan). Short research stay in Bionand (Andalusian centre of Nanomedicine and Biotechnology) in June 2016. Thesis title: "Mesenchymal stem cell in degenerative joint diseases"

2008 - 2013: Degree in Pharmacy (103/110), University of Pavia. Thesis title: "Alginate beads for adipose derived stem cells and tendon stem progenitor cells delivery: in vitro study for an innovative approach for the treatment of tendinopathies. This study has been performed at University of Pavia and IRCCS Galeazzi Orthopaedic Institute.

Work experiences

2017 - present: postdoctoral researcher at Orthopedic Biotechnology Lab, held by Dr. Laura de Girolamo, IRCCS Galeazzi Orthopedic Institute

Awards

Silver prize winner at the abstract submission contest of CELLS | Musculoskeletal conference, October 7-9, 2016, Amsterdam, Netherlands

Winner of IBSA Foundation 2017 Fellowship – Call 2017, Orthopedic-Rheumatology area

Winner of Ivano Becchi Foundation Progetto Professionalità 2017 (declined for incompatibility with the other IBSA Foundation award)

Laboratory skills

Primary human cell lines isolation, culturing and handling, especially of mesenchymal stem cells (from bone marrow, adipose tissue and tendons), chondrocytes and fibroblast-like synoviocytes.

Cells maintenance, differentiation, culturing and storage. Seeding and expansion both in monolayer and 3D cell cultures. Extracellular Vesicles isolation from Mesenchymal stem cells cultures. Viability and Proliferation assays (MTT, Alamar, Live&Dead, Cyquant, BrdU), ELISA assay, RNA and DNA extraction, Real Time PCR

In vivo studies on rat models (surgery assistant and explant collecting and processing). Histological sample processing, staining, immunohistochemistry and immunofluorescence analyses.