

Marco Radaelli, MD, MRes

Email: [REDACTED]
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PERSONAL INFORMATION

Date of birth: 0[REDACTED]/1992

Place of birth: Milan, Italy

EDUCATION

Universita' degli studi di Milano, Milano, IT

2011-2017, Doctor of Medicine (MD), *Summa cum laude*, October 2017

Dissertation: "Single-blind RCT investigating the use of autologous Micro-Fractured Adipose Tissue (Lipogems) in the arthroscopic repair of rotator cuff tears."

Committee: Prof. Pietro Randelli, MD, PHD, Prof. Arnold I. Caplan, Federico Uselli, MD

Imperial College, London, UK

2018-2019, Master in Clinical Research (MRes), *First Class Honours*, September 2019

Dissertation: "The molecular response of human bone marrow stromal cells to high pressure loading applied at high strain rate."

Committee: Prof. Julian Jones, Prof. Martin R. Wilkins, Dr David J Chapman, Dr. David R Owen

EXPERIENCE

September 2019 to General Practitioner (GP), medico di medicina generale, 1500 pazienti

February 2020, Melegnano

October 2018 to

September 2019, London Imperial College, Inflammation Repair and Development department (IRD) -**Master student**- Prof. Julian Jones, Prof. Sara Rankin, Dr David Sory.

Skills acquired, no supervision needed:

- Cells expansion and culture (especially Bone Marrow MSCs)
- Viability assay: Fluorescence-activated cell sorting (FACS) and Alamar Blue
- qRT-PCR
- Confocal Microscope (CLSM) Imaging
- JuLI™ Stage Imaging for real-time live cells imaging
- Cellular monolayer staining (Alcian Blue, Oil Red O, Alizarin Red S)
- Cellular metabolic assessment via SeaHorse assay and MitoTracker Red CMXRos
- Basic knowledge on how to build a mechanical loading platform
- Advance knowledge of biostatistics in RCTs
- Statistical analysis using Graphpad software
- Basic knowledge of C++ programming language

October 2017 to

September 2018, Milan

Galeazzi Hospital, department of foot and ankle surgery, **-Internship-** Federico Uselli, MD

- Total ankle arthroplasty (TAA), second generation vs third generation implants
- Ankle distraction arthroplasty
- Ankle arthrodesis
- Ankle arthroscopy
- Ankle fracture with open reduction and internal fixation (ORIF)
- Surgical treatment of lateral ligament instability
- Achilles Tendon rupture and repair
- Hallux valgus deformity surgical approach: distal and proximal osteotomy

General Practitioner (GP), medico di medicina generale, 1500 pazienti presso Sesto San Giovanni

August 2017 to

October 2017, Providence (RI) Brown University, Warren Alpert Medical School, Rhode Island Hospital **-Hands on rotation in Orthopaedic surgery-** Professor Eric F. Walsh

- Upper limb surgery

June to August 2017, Tokyo

Juntendo University Hospital - **Internship in Orthopaedic surgery-** Prof. Kaneko Kazuo MD-PhD, Professor Katsuo Shitoto MD and Professor Muneaki Ishijima MD-PhD

- Lower limb elective surgery

2015-2019, Milan (Italy)

Gaetano Pini Hospital, 1st Orthopaedics division **-Intern and research assistant-** Prof. Pietro Randelli

- 2yrs f-up RCT: *“Surgical treatment of Rotator Cuff Tears followed by Microfractured and Purified Adipose Tissue injection (Lipogems – ClinicalTrials.gov Identifier: NCT02783352)”*

2014-2015, Milan (Italy)

San Donato Hospital, department of Orthopaedics **-Internship in orthopaedic surgery-** Prof. Pietro Randelli and Filippo Randelli MD

- High Tibial Osteotomy in early knee osteoarthritis with valgus-varus deformity
- Total knee arthroplasty vs Unicompartmental knee arthroplasty
- Arthroscopy treatment for Rotator cuff tears
- Total shoulder arthroplasty (Anatomic vs Inverse shoulder arthroplasty)
- Anterior Hip replacement surgery

