

Curriculum vitae

of

Massimiliano LEIGHEB

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Born in Turin (Italy) the 5th-12-1971.

TRAINING

- 1990: Scientific High School Degree.
- 1995-'96: Socrates-Erasmus Grant at 6th year of School of Medicine and Surgery for mobility to Linkoping University (Sweden).
- 1st/4 – 31st/5/1997 Research activity at the Orthopaedic Research Unit of Cambridge University (U.K.)
- 29th-10-1997: Degree in Medicine and Surgery (MD) in Novara - II School of Medicine of 'Turin University' (Ita) with an experimental thesis in biocompatibility made at Cambridge University (U.K.).
- 1997-'98: post lauream fellowship at Cochin University Hospital in Paris (F).
- May 1998: State Examination for M.D. profession at Turin University (Ita).
- Since 6th-8-1998 registered at the College of Medical Doctors of Novara (Ita).

- 27-10-2003: Specialized in Orthopaedics and Traumatology at Modena University (Ita) after a 5 years residency training, with an experimental thesis about rotator cuff of the shoulder (score: 110/110).
- Since the Academic Year 2003-'04: research attachment at the Human Anatomy Laboratory (ancient "Medical Sciences", then "Clinical and Experimental Medicine" and now "Health Sciences" Department) of Eastern Piedmont University (UPO) "A.Avogadro" (Ita).
- 18-1-2007: Philosophy Doctor (PhD) Degree in degenerative pathologies and immunopathology – XIX cycle - at Insubriae University in Varese (Ita), after 3 years training.
- 18-4-2008 II level Master in Hand and MicroSurgery at Modena University (Ita).
- 12-11-2010 Microsurgical Techniques Degree (1 year lasting MicroSurgery Advanced Course), Biotechnologies Center, Cardarelli Hospital, Napoli (Ita).
- 13-7-2011 Master in "Coordinator / Administrator of Clinical Trials - Data Manager" at Università del Piemonte Orientale.

MEDICAL ACTIVITY

- Since 15th-12-'98 to 23rd-11-'99 Medical Officer of the Italian Army at the Military Academy in Modena.
- Since 8th/2/'02 to 14th/4/2002 and from 2013 to 2017 medical activity at the Trauma Centers of Aosta Valley (Ita).
- Since 1st-2-2002 to 30th-9-2004 (A.S.L. 13 Novara and U.S.L. Modena, Italy): activity as General Practitioner.
- Since 1st-9-2004 to 31st-1-2005: Consultant of the Orthopaedics Unit of Clinica San Gaudenzio – Policlinico di Monza (High Specialization Center)- in Novara (Ita).
- Since 1st-2-2005 to date: Medical Manager in Orthopaedics and Traumatology at "AOU Maggiore della carità" University Hospital in Novara (Ita).

- In the 5 years from 01-01-2014 to 31-12-2018 he performed 1357 (on average 271 per year) surgical interventions in the Orthopedic-Trauma field of which 819 (on average 164 per year) as the first operator.

TEACHING ACTIVITY

- Since the Academic Year 2004-'05: Teacher of “Functional and Clinical Human Anatomy of Locomotive Apparatus” at the Medical School of the University of Piemonte Orientale (UPO) (Ita).
- Since 1st-11-2009 Tutor at the post graduate Practical Fellowship for Medical Licence at the University of Piemonte Orientale (UPO) / Maggiore della carità university hospital in Novara (Ita).
- Academic Years 2010-'11 to date: teacher of “Locomotive Apparatus Diseases” and “Orthopaedics and Traumatology” at the Nursing School of University of Piemonte Orientale (UPO) (Ita).
- Academic Year 2010-'11: Contract Professor of Locomotive Apparatus Diseases at the Specialization School in Emergency Medicine at Eastern Piedmont University (UPO) “A.Avogadro” (Ita).
- Since 2007: Teacher of Orthopaedics and Traumatology at the Master in Emergency and Critical Area Medicine at Eastern Piedmont University (UPO) “A.Avogadro” (Ita).
- Since Academic Year 2013-'14 to 2018-'19: Contract Professor of Human Anatomy I – discipline: Functional and Clinical Anatomy of Locomotive Apparatus, for medical students, School of Medicine of Novara, Eastern Piedmont University (UPO) “A.Avogadro” (Ita).
- Academic Years 2019-'20 to date: teacher of Traumatology at the Physiotherapy School of University of Piemonte Orientale (UPO) (Ita).

ACADEMIC CAREER

- Since 02-05-2019 Associate Professor of Locomotive Apparatus Diseases at the Department of Health Sciences, School of Medicine, Eastern Piedmont University (UPO) in Novara, Italy.

- National Scientific Qualification for the functions of Full Professor for the Sector 06 / F4 Diseases of the Locomotor System and Physical and Rehabilitation Medicine, valid from 10 november 2020 to 10 november 2029.

ROLE IN SCIENTIFIC JOURNALS AND SOCIETIES

- Since 4-15th-2020 Editor in Chief of the World Journal of Orthopedics (<https://www.wjgnet.com/2218-5836/>).
- Editorial Board member of many scientific journals.
- Reviewer for many scientific journals.
- Member of the Directive Board of the Piedmontese, Lombard, Ligurian Society of Orthopedics and Traumatology (SPLLOT) in 2016 and 2017.
- Member of the Italian Society of Orthopedics and Traumatology (SIOT), of the Italian Society of Hand Surgery (SICM), of the Italian Society for the Ankle and Foot (SICP), and of the University Academy of Orthopedics and Traumatology (AUOT).

FUNDED RESEARCH PROJECTS

- From 2008 to 2011 participation in the Scientific Research Program of Relevant National (Italy) Interest (PRIN).
- Lecturer participating in the three-year funded research project “Nanotechnologies to vary the programs of bone development in the vessel wall for the prevention and treatment of pathologies associated with arterial ectopic calcification”. Prot. 201288JKYY of the Scientific Research Program of Relevant National (Italy) Interest (PRIN) - MIUR 2012 call.
- Scientific Responsible winner of a grant of 400,000 euros from the competitive call "Biomedical research on aging diseases", promoted by Cariplo Foundation in 2017, for the research project "Small-molecule inhibitors as a tool to improve aging-related sarcopenia and frailty”, in collaboration with the University of Milan, AOU Maggiore della carità of Novara and the University of Turin.

- Grant winner of 248,500 euros from the competitive call "Circular economy - 2018", promoted by Cariplo Foundation in 2018, for the research project "High added-value bioactive polyphenols recovered from waste of olive oil production", in collaboration with the University of Eastern Piedmont and Agro-Environmental and Forest Biology Institute - CNR of Naples (I), as Orthopedic Clinical Expert.
- Clinical expert participating in the European Project "RESTORE: user-centred smart 3D nanobiomaterial-based scaffold for chondral repair" funded under the HORIZON 2020 program (42 months from 1/1/2019), as a member of the Research Unit of the University of Eastern Piedmont, coordinated by Prof. Lia Rimondini, involved in the design of devices for cartilage regeneration, as well as in the evaluation of results, their dissemination and communication.
- Research partner in the scientific project of excellence on Aging "Age-related hormonal dysregulation in the onset of sarcopenia and osteoporosis", coordinated by Prof. Nicoletta Filigheddu, DiMeT UPO 2020-22.
- Head of the scientific research project entitled "Isolation and characterization of collagen usable as an osteoactive filler" entrusted and financed by the Company AMNOL Chimica Biologica s.r.l., from 01-01-2007 to 31-12-2011.
- Responsible for the study and development of the scientific research project on "Bisphosphonates and vitamin D in osteoporosis complicated by systemic hypertension", entrusted and funded by the Antibiotic Products Society (SPA), from 01-04-2015 to today.

COURSES and CONGRESSES

Speaker or auditor at more than 160 courses and congresses.

SCIENTIFIC PRODUCTION

ORCID ID: 0000-0002-7818-2209

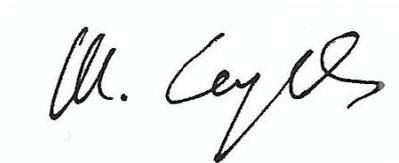
40 papers published in peer-reviewed international journals.

AWARDS

Ferrero Foundation Award for the best abstract at the International Conference "Successful Aging 2019 Body and Mind Connection". Alba (CN), 8-11-2019.

Ferraro E, Belli R, Bonato A, Caruso M, Muscaritoli M, Costelli P and Leigheb M. The metabolic reprogramming agent Trimetazidine acts as an “exercise mimetic”: it improves skeletal muscle performance while promoting myogenesis and oxidative metabolism in aging.

Published in Front Physiol. (IF: 4.134) 2019;10: 897. doi: 10.3389/fphys.2019.00897. eCollection 2019.

A handwritten signature in black ink, appearing to read "M. Leigheb". The signature is fluid and cursive, with the first letter 'M' being large and prominent. The background is a light green rectangular area.

Novara (Italy), January, 10th, 2021