

DR. STEFANO SQUARZONI

CURRICULUM VITAE

Born in Bologna on 25/8/1957

1976-1983 Student at the Faculty of Medicine and Surgery at the Bologna University

1980-1983 Internship at the Institute of Clinical Electron Microscopy, University of Bologna

1983 MD degree at the University of Bologna (thesis on ultrastructural pathology)

1984 -2002 Researcher at the "Institute of Normal and Pathological Cytology " of the Italian National Research Council (CNR)

2002-2007 Researcher at the "Institute for Organ Transplants and Immunocytology" of the Italian National Research Council (CNR)

2007 – present First Researcher at the Institute of Molecular Genetics of the Italian National Research Council (CNR)

2009 Co-founder of the Italian Network for Laminopathies

02/07/2018 - Representative of the National Research Council of Italy at the Technical-Scientific Committee for the Activity and Experimentation of the INAIL Prosthesis Center in Vigorso di Budrio (Bologna, Italy)

Coordinator of:

- CURE-CMD research project "Exploring the involvement of COLVI-NG2 axis in the generation of contractures affecting UCMD patients" (www.curecmd.org)

- Operative Unit n° 3 of the Research Project of National Interest (PRIN) 2008 MIUR "Effect of collagen VI mutations on the organization of extracellular matrix in human tissues and fibroblasts
Coordinator: Prof P. Bonaldo, prot. 2008PB5S89_002.

- Operative Unit n°2 of the research project "Characterization of new genetic defects in MAD" within the Italy-USA Rare Diseases Program, ISS contract n°526D/30.

Collaborator in the research projects:

- Telethon project "Toward a mitochondrial therapy of collagen VI muscular dystrophies" (grant n° GGP08107, coordinator: Prof. Paolo Bernardi)

- EC project EURO-Laminopathies, E.C. Sixth Framework Programme, Contract LSHM-CT-2005-01869

- PF Italian Health Ministry "Miopatie da deficit di collagene VI : dai modelli cellulari umani allo sviluppo di strategie terapeutiche nelle miopatie di Bethlem e Ullrich" (Coordinator: Prof. E. Bertini)

-Telethon project “Collagen VI myopathies: from mouse therapy to human trials” (grant n° GP04113, coordinator: Prof. Paolo Bonaldo).

- PF Italian Health Ministry n° 2003/939 (“Predisposing genes and pathogenetic factors in laminopathies”). Coordinator: Prof NM Maraldi

- PF of “Association Française contre les Myopathies - AFM ” grant n° 9398 (Electron microscopy and immunocytochemical study of collagen VI and collagen VI-related proteins in UCMD). Coordinator: Prof NM Maraldi

- PF Italian Health Ministry n° 83/2001 (Muscular Dystrophies : differentiative and fibrogenic processes, therapeutic perspectives) Coordinator: Prof NM Maraldi

- FIRB Project 2001 Ministry for University and Research (Decodification of "simple" genetic diseases) cod. M.I.U.R.: RBNE01JJ45_005 Coordinator: Prof B. Dallapiccola

- EC project Myo-Cluster (contract N° GLG1-CT-1999-00870) Coordinator: Dr L. Merlini

- PF Italian Health Ministry n° 080.1/RF.99.44 (Study of the nuclear proteins involved in cardiomyopathy-associated muscular dystrophies). Coordinator: Prof NM Maraldi

- PF Italian Health Ministry n° ICS 080.1/RF97.67, (Prevention of neurological complications following surgical treatment of idiopathic and neuromuscular deformations) Coordinatoo: Dr P. Parisini

2004 Teacher in the stage n° 1695-27126 “Advances in research on pathogenic mechanisms of myopahties due to nuclear proteins”, in the frame of "Continous Education in Medicine" program c/o Rizzoli Orthopedic Institute

2002 Speaker at the “112th ENMC International Workshop - 3rd Workshop of the Myocluster Project BETHLEM” (Naarden, NL) within the EC project Myocluster.

2001 Speaker at the “98th ENMC International Workshop on Congenital Muscular Dystrophy (CMD), 7th Workshop of the International Consortium on CMD, 2nd Workshop of the Myocluster Project GENRE ” (Naarden, NL) within the EC project Myocluster.

2001 Speaker at the “Midterm Myocluster Meeting” (Paris) within the EC project Myocluster.

2000 Speaker at the “82nd ENMC International Workshop, 5th International Emery-Dreifuss Muscular Dystrophy (EDMD) Workshop, 1st Workshop of the MYO-CLUSTER Project EUROMEN (European Muscle Envelope Nucleopathies)” (Naarden, NL) within the EC project Myocluster.

1995 Teacher at the Second Theoretic and Practical Course "Immunological techniques applied to electron and confocal microscopy" organized by the "Superior School of Oncology and Bio Medical Sciences" held at the Institute of Normal and Pathological Cytology - CNR

1994 Teacher at the First Theoretical and Practical Course "Immunological techniques applied to electron and confocal microscopy" organized by the "Superior School of Oncology and Bio Medical Sciences" held at the Institute of Normal and Pathological Cytology - CNR

1989 Attendee at the 45^o theoretical and practical Workshop “Cryomethods in Biological Electron Microscopy”, held by Prof. H. Sitte and J. Dubochet (Nobel Prize 2017) in Seefeld (Austria)

Master-Degree thesis Co-Supervisor

Alma Mater Studiorum University of Bologna, School of Veterinary Medicine, Single cycle Master Degree:

“Phenotype study in a mouse model of Progeria (transgenic G609G Lmna) to evaluate drugs able to reduce the progerin” Master Degree thesis of Mara Sanapo;

Supervisor: Prof. Anna Zaghini; Co-Supervisor Dr. Stefano Squarzoni. Year 2015/2016, Session II

2000 Tutor for both a PhD student c/o Rizzoli Orthopedic Institute - Cell Biology and Electron Microscopy Lab and a post-Doc research fellow.

ACTIVITY

Publications and bibliometrics at April 2020:

92 full length papers in peer reviewed international journals, with total IF 431,812 and medium IF 4,694. H index: 31 (WOS); 32 (Scopus); 37 (Google Scholar).

13 articles in journals not ranked in ISI-Journal of Citation Reports.

1 book chapter

Activity from 1992

Dr. Stefano Squarzoni began in 1992 his studies on muscular dystrophies which were developed and continued until present, further evolving to studies on nuclear envelope- related diseases known as “laminopathies”. A second field of interest is the mechanism of wear and failure of orthopaedic prostheses, along with the early diagnosis of wear onset, by means of energy dispersive X-ray analysis (SEM-EDS) of synovial liquid from patients carrying hip prostheses.

Main topics were: the localization of proteins involved in muscular dystrophies at the TEM level (dystrophin, laminin alpha 2, emerin); study of Emery-Dreifuss muscular dystrophy due to nuclear proteins alterations (lamin A/C, emerin; definition and characterization of laminopathies, either with muscular phenotype or with different symptoms (FPLD, MAD, progeria); study of collagen VI -related myopathies (Bethlem and Ullrich syndromes)

Activity 1984-1992

Main research topics:

chromatin organization of the interphasic nucleus by freeze-fracture methods and image analysis; electron microscopy of nucleus thin sections and combined "sectioned replica" technique.

Localization of nuclear components by "pre-embedding" immunocytochemistry; optimization of "post-embedding" techniques; direct comparison of isolated chromosomes by light, fluorescence and electron (transmission, scanning and scanning-transmission) microscopy