

Cristina Capanni, PhD

Biographical Sketch: Research Scientist **Name:** Capanni, Cristina **Date of Birth:** 08/13/1969

Place of birth: Santarcangelo di Romagna, RN, Italy **Citizenship:** Italian

Work Address: National Research Council of Italy, Institute of Molecular Genetics "Luigi Luca Cavalli-Sforza", Unit of Bologna,; via di Barbiano 1/10, Bologna, Italy 40136 **Ph:** +39 051636856 **E-mail:** ccapanni@area.bo.cnr.it

Education:

Institution	Degree	Date Conferred	Field of Study
University of Bologna, Bologna, Italy, Department of Biology	MS	1994	Biology
Institute of Biochemistry "G.Moruzzi" University of Bologna, Bologna, Italy.	PhD	1999	Biochemistry and Physiopathology of Aging

Research Experience

1995-1999: PhD course in Biochemistry and Physiopathology of Aging at the University of Bologna.

2000-2003: Post Doc at the Neuromuscular Unit of Rizzoli Orthopedic Institute of Bologna.

2003 -2004: Post Doc at the Laboratory of Cell biology of Rizzoli Orthopedic Institute of Bologna.

2005-2007: Post Doc at the ITOI-CNR and Institute of Molecular Genetics-CNR (IGM-CNR) Unit of Bologna.

2008-present: Research Scientist (3rd level permanent faculty position) at the Institute of Molecular Genetics, CNR (IGM-CNR) Unit of Bologna.

2009- Co-founder of the Italian Network for Laminopathies aimed at connecting scientists, clinicians and families to improve quality of research and patient care (<http://www.igm.cnr.it/1/laminopatie/>).

2017- Winner as Principal Investigator of a grant from the AIDMED (Italian Association for Emery-Dreifuss Muscular Dystrophy) for the project entitled "Evaluation of autophagy as a possible therapeutic target in type 1 Emery-Dreifuss muscular dystrophy (EDMD1)".

My research topics include lamins and laminopathies; lamin A precursor (prolamin A processing); emerin; nuclear morphology and chromatin organization; molecular interaction between nuclear proteins and the nuclear lamina components. Bone, muscle and adipose tissue differentiation. My research activity focuses on nuclear envelope proteins, including lamins, emerin and BAF in chromatin and epigenetic dynamics under stress conditions as well as during cellular differentiation in bone, muscle and adipose tissue differentiation, of normal and biological samples from patients affected by muscular dystrophies, lipodystrophies and premature aging syndromes.

Laboratory techniques managed concern cell culturing, differentiation and transfection of primary cultures and cell lines; establishment and characterization of human and mouse primary cell cultures from bone, muscle and adipose tissue. Evaluation of protein expression by biochemical and optical microscopy approaches. Excellent abilities in the evaluation of protein-protein and protein-DNA interactions by approach of biochemistry (co-

immunoprecipitation, CHIP assay) and immunocyto and immunohistochemistry (immunostaining and *in situ* Proximity Ligation Assay), as well as in imaging processing and data analysis by the use of NIS-Elements 4.3 AR software (Nikon) and Duolink® ImageTool (Sigma-Aldrich).