

PERSONAL INFORMATION

Alessandra Ruggieri

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Gender: F | Nationality: Italian

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WORK EXPERIENCE

January 2020-ongoing

Italian NHS Researcher

National Neurological Institute C. Besta, Neuroimmunology and Neuromuscular Diseases Unit, Muscle Cell Biology lab.

- Study of the pathogenic mechanism related to an Autosomic Dominant Myopathy caused by an expansion in perilipin 4 and investigation of the aggrephagy pathway in Myofibrillar Myopathies.

January 2014-December 2019

Senior Researcher

National Neurological Institute C. Besta, Neuroimmunology and Neuromuscular Diseases Unit, Muscle Cell Biology lab.

- Characterization of the gene causing an Autosomic Dominant Myopathy by means of molecular biology, cell biology and proteomic techniques.

June 2008-December 2013

Senior Researcher

The Hospital for Sick Children, Genetics and Genome Biology program, Toronto, Canada.

- Identification of the gene responsible for an Autosomic Dominant Myopathy, by the use of molecular, cellular and Next Generation Sequencing techniques.

May 2004-May 2008

Fellow

National Neurological Institute C. Besta, Neuroimmunology and Neuromuscular Diseases Unit, Muscle Cell Biology lab.

- Study of the cellular and molecular mechanisms involved in the muscular degeneration due to different genetic diseases such as limb-girdle and congenital dystrophies.

September 2003-March 2004

Website and scientific communication manager

Histo-Line Laboratories, Milan.

- Update and scientific communication on their website specifically referring to immunology's products.

November 2002-July 2003

Marketing researcher and Catering assistant

Millward Brown, Leamington Spa and Ducky Catering, Coventry, United Kingdom.

EDUCATION AND TRAINING

November 2018-March 2022

PhD in Molecular Genetics, Biotechnologies and Experimental Medicine

University of Brescia, Italy.

- Characterization of a coding expansion in the *PLIN4* gene. During this period I've improved my laboratory skills in genetics, molecular and cell biology.

November 2004 **Exam for the Registration as Professional Biologist**
University of Milan, Italy

July 2002 **Master Degree in Biology**
University of Milan, Italy

- Experimental thesis: Immunolocalization and functional characterization of the native channel HCN1 in the rods of the rabbit retina

ACHIEVEMENTS AND AWARD

Editorial activity

Reviewer for international journals such as *Frontiers in Genetics*, *PLOS ONE*, *Neuromuscular Disorders*, *European Journal of Translational Myology*.
Reviewer for grant applications such as Prinses Beatrix Spierfonds grant “The road to therapy 2017-2018” and ERA PerMed 2021.

TECHNICAL SKILLS

Sequencing techniques: Next Generation Sequencing (Exome, Whole Genome e Targeted Sequencing), Sanger Sequencing.

Use of the software for Genome-Wide Association (PLINK e PREST) and for Linkage analysis (Merlin).

Molecular Biology: cloning, PCR, qRT-PCR Northern Blot, SSCP, microsatellites, SDS-PAGE Western Blot, bacterial and yeast cultures, Two-Hybrid system.

Cell culture: primary, immortalized and iPS cells.

Immunohistochemistry, immunocytochemistry.

Fluorescence and confocal microscopy.