PERSONAL INFORMATION	Elisa Sarto
	Foundation IRCCS Neurological Institute "C. Besta"
	Unit of Medical Genetics and Neurogenetics Amadeolab, via Amadeo 42, 20133 Milano
	₩ elisa.sarto@istituto-besta.it
	Gender: F   Nationality: Italian
	https://orcid.org/0000-0002-0699-956X
WORK EXPERIENCE	
December 2019 – Today	Italian NHS researcher
	Foundation IRCCS Neurological Institute "C. Besta", Milan
	Genetic screening in the context of central nervous system disorders. Use of the NGS technique on gene panels to search for pathogenetic mutations, new disease genes, analysis of the results, validation of the identified variants and segregation in families.
May 2012 – December 2019	Contract researcher
	Foundation IRCCS Neurological Institute "C. Besta", Milan
	Genetic screening in the context of neurodegenerative diseases with high genetic heterogeneity through the use of the NGS technique to search for pathogenetic mutations, new disease genes, analysis of results, validation of identified variants and segregation in families.
May 2007 – May 2012	Research Fellowship
	Foundation IRCCS Neurological Institute "C. Besta", Milan
	Research activities in the field of neurodegenerative diseases (ataxias and spastic paraparesis), molecular and biochemical screening of large patient cohorts to search for new pathogenetic mutations, development of new methods of analysis, analysis of results.
November 2006 - May 2007	Research Fellowship
	Foundation IRCCS National Cancer Institute, Milan
	Immunological studies related to Toll-like receptors.
EDUCATION AND TRAINING	
September 2013 - July 2014	1st level International Master in Applied Nutrition and Dietetics
	Marche Polytechnic University
	Title of the master's thesis: "Nutrients, genome and health: the diet of the future" Study of nutritional plans and acquisition of the main notions relating to the basics of nutrition and dietetics.
November 2012	Professional qualification Biologist State Board Exam
	University of Milan
October 2004 - July 2006	Master's Degree in Industrial Biotechnology The University of Pavia
	Title of the specialist thesis: "Molecular dissection and phylogeographic analysis of haplogroup M1 of human mitochondrial DNA", at the Human Genetics Laboratory
	Main subjects covered: genetics, molecular and cellular biology about nuclear DNA and mitochondrial DNA.

October 2001 - September 2004	First Level Degree in Biotechnology, biological path
	The University of Pavia
	Title of the first level thesis: "Analysis of human mitochondrial DNA: complete sequencing of three genomes", at: Human Genetics Laboratory
	Main subjects covered: genetics, molecular and cellular biology about nuclear DNA and mitochondrial DNA.
October 2001 - September 2004	Scientific high school G. Peano (national IT plan)
TEACHING ACTIVITY	
April 2006 - June 2006	Tutor of the Bioinformatics course, part of the first level degree in Biological Sciences
TECHNICAL SKILLS	
	Excellent competence in molecular biology techniques: PCR, HRM, MLPA, Real-Time PCR, Genomiphi, DHPLC, Southern Blot, enzymatic digestions, electrophoretic runs, RNA extraction, protein extraction, Western Blot, genomic and mitochondrial DNA sequences.
	Excellent skills in cell biology techniques: tumor cell maintenance, cell labeling with Chromium 51 for cytotoxicity tests, Elisa test, labeling with P32.
	Excellent knowledge of the new NGS (Next Generation Sequencing) approaches, in particular the Target Resequencing technique (TruSeq Custom Amplicon); Nextera Rapid Capture, Nextera XT and Exome sequencing.
	Excellent knowledge of laboratory programs in particular Sequencer, Clustalw, IGV (and other DNA sequences reading programs) and variant prediction and annotation programs. Data analysis of all the techniques cited.
	Evaluation for the second se

Excellent knowledge of Office applications (Word, Excel, PowerPoint).