Valerio Caputo, PhD

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Sex Male | **Date of birth** 23/09/1991 | **Nationality** Italian

From February 2019 to present	Research fellowship
	Medical Genetics Laboratory, Department of Biomedicine and Prevention, University of Rome Tor Vergata
	Genomic Medicine laboratory-UILDM, IRCCS Santa Lucia Foundation
	Covid-19 Laboratory, Genomic Medicine laboratory, IRCCS Santa Lucia Foundation

EDUCATION AND TRAINING	• From November 2015 to November 2018: PhD in Applied Biotechnologies and Translational Medicine. Medical Genetics Laboratory, Department of Biomedicine and Prevention, University of Rome Tor Vergata, • From October 2013 to October 2015: Master of Science in LM Molecular and Cellular Biology 110/110 cum laude, University of Rome Tor Vergata. Trainee in the Molecular Genetics Laboratory, Department of Biology. • From October 2010 to October 2013: Bachelor of Science in LT Biological Sciences, 110/110 cum laude, University of Rome Tor Vergata

JOB-RELATED SKILLS	• Molecular Biology techniques: manual and automated DNA and RNA extraction, PCR, Sanger Sequencing, SNP Genotyping through RT-PCR, including OpenArray platform, Digital PCR. Gene expression through qRT-PCR. DNA methylation analysis. Protein extraction, Western Blot, Immunoprecipitation and Immunofluorescence assay. Cloning techniques. • Analytical and Interpretive protocols for Sars-CoV-2 detection and molecular diagnosis. • Cell Biology techniques: Cell culture, Cell transfection. • Biostatistical/Bioinformatic skills: good knowledge of statistical genetic and bioinformatic analyses. Good knowledge of analyses software for biological studies. NGS data analysis. Genetic variants analysis and functional prediction through dedicated bioinformatics tools. • Good writing skills gained through the drafting and writing of research and review articles
Mother tongue	Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
	CAE				
French	C1	C1	B2	B2	C1
	DALF C1				

	Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages

PREVIOUS WORK EXPERIENCE	From May 2010 to May 2013: Staff member for DELF (Diplôme d'Etudes de Langue Française) examinations, Alliance Française Sud-Latium, Piazza Moro, 37 – 04100, Latina, Italy

RELEVANT PUBLICATIONS	**Caputo V,** Strafella C, Termine A, et al. Overview of the molecular determinants contributing to the expression of Psoriasis and Psoriatic Arthritis phenotypes.J Cell Mol Med. 2020. Strafella C, **Caputo V**, Termine A, et al. Analysis of ACE2 Genetic Variability among Populations Highlights a Possible Link with COVID-19-Related Neurological Complications. Genes (Basel). 2020;11(7):E741. **Caputo V**, Termine A, Strafella C, Giardina E, Cascella R. Shared (epi)genomic background connecting neurodegenerative diseases and type 2 diabetes. World J Diabetes. 2020;11(5):155-164. Ragazzo M, Carboni S, **Caputo V**, et al. Interpreting Mixture Profiles: Comparison between Precision ID GlobalFiler™ NGS STR Panel v2 and Traditional Methods. Genes (Basel). 2020;11(6):E591. **Caputo V**, Strafella C, Termine A, et al. RNAseq-Based Prioritization Revealed COL6A5, COL8A1, COL10A1 and MIR146A as Common and Differential Susceptibility Biomarkers for Psoriasis and Psoriatic Arthritis: Confirmation from Genotyping Analysis of 1417 Italian Subjects. Int J Mol Sci. 2020;21(8):2740. Sbardella D, Tundo GR, Cunsolo V, Grasso G, Cascella R, **Caputo V**, et al.Defective proteasome biogenesis into skin fibroblasts isolated from Rett syndrome subjects with MeCP2 non-sense mutations. Biochim Biophys Acta Mol Basis Dis. 2020;1866(7):165793. Strafella C, **Caputo V**, Galota RM, et al. The variability of SMCHD1 gene in FSHD patients: evidence of new mutations. Hum Mol Genet. 2019;28(23):3912-3920. Cascella R, Strafella C, **Caputo V**, et al. Digenic Inheritance of Shortened Repeat Units of the D4Z4 Region and a Loss-of-Function Variant in SMCHD1 in a Family With FSHD. Front Neurol. 2018;9:1027. Strafella C, **Caputo V**, Galota MR, et al. Application of Precision Medicine in Neurodegenerative Diseases. Front Neurol. 2018;9:701. Cascella R, Strafella C, Longo G, Ragazzo M, Manzo L, De Felici C, Errichiello V, **Caputo V**, Viola F, et al. Uncovering genetic and non-genetic biomarkers specific for exudative age-related macular degeneration: significant association of twelve variants. Oncotarget. 2017;9(8):7812-7821. Cascella R, Strafella C, **Caputo V**, et al. Towards the application of precision medicine in Age-Related Macular Degeneration. Prog Retin Eye Res. 2018;63:132-146. Gonfloni S, **Caputo V**, Iannizzotto V. P63 in health and cancer. Int J Dev Biol. 2015;59(1-3):87-93.

Autorizzo il trattamento dei dati personali contenuti nel presente Curriculum Vitae ai sensi del Regolamento (UE) 2016/679