



Europass Curriculum Vitae

Personal information

First name / Surname	Silvia Masciarelli
Address	Department of Anatomy, Histology, Forensic Medicine and Orthopedics, Section of Histology and Medical Embryology, "Sapienza" University of Roma Via Scarpa 14, 00161, Roma

Work experience

Dates	August 2022-July 2023
Occupation or position held	Incarico di lavoratore autonomo
Name and address of employer	Department of Anatomy, Histology, Forensic Medicine and Orthopedics Università di Roma "Sapienza"
Dates	January 2019-December 2021
Occupation or position held	Ricercatrice a tempo determinato di tipo A (RTD-A, SSD BIO/17, Histology)
Name and address of employer	Dip. di Scienze della Vita e Sanità Pubblica, Istituto di Istologia ed Embriologia Università Cattolica del Sacro Cuore, Rome, Italy
Dates	September 2012-December 2019
Occupation or position held	Assegnista di ricerca
Name and address of employer	Department of Anatomy, Histology, Forensic Medicine and Orthopedics Università di Roma "Sapienza"
Dates	December 2009 – August 2012
Occupation or position held	Post-doc fellow
Name and address of employer	Translational Oncogenomic Unit Regina Elena Cancer Institute, Rome, Italy
Dates	May 2008 – December 2008
Occupation or position held	Post-doc fellow
Name and address of employer	Protein Transport and Secretion Unit, DiBiT San Raffaele Scientific Institute, Milan, Italy
Dates	January 2004 - April 2008
Occupation or position held	PhD student in the Open University (UK) – Università Vita-Salute (Milan, Italy) PhD program
Name and address of employer	Protein Transport and Secretion Unit, DiBiT San Raffaele Scientific Institute, Milan, Italy
Dates	June 2006 – October 2006
Occupation or position held	Visiting PhD student at St. Jude Children Research Hospital, Memphis, TN, USA.
Name and address of employer	Genetics/Tumor Cell Biology, St.Jude Children's Research Hospital Memphis, TN, USA

Dates	2001 - 2003																		
Occupation or position held	Post-graduate fellow																		
Name and address of employer	PCCMB, National Institute of Health, Bethesda, MD, USA																		
Dates	1997 - 2001																		
Occupation or position held	Undergraduate student/intern																		
Name and address of employer	Dept. of Public Health Sciences, University "La Sapienza", Rome, Italy																		
Education and training																			
Dates	19 November 2020																		
Title of qualification awarded	Abilitazione Scientifica Nazionale Settore Concorsuale 05/H2 Istologia																		
Dates	05 August 2008																		
Title of qualification awarded	PhD degree in Molecular and Cellular Biology/Dottorato di Ricerca in Biologia Cellulare e Molecolare																		
Name and type of organisation providing education and training	Open University (Milton Keynes, UK)/Università Vita-Salute San Raffaele (Milan, Italy)																		
Dates	28 February 2000																		
Title of qualification awarded	Degree in Biological Sciences , 110/110 with honours																		
Name and type of organisation providing education and training	University of Rome "La Sapienza", Italy																		
Dates	July 1994																		
Title of qualification awarded	High school diploma																		
Name and type of organisation providing education and training	Liceo classico T.Tasso, Rome, Italy																		
Personal skills and competences																			
Mother tongue	Italian																		
Other language	English																		
Self-assessment	<table border="1"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>C2</td> <td>C1</td> <td></td> <td>C1</td> <td>C1</td> </tr> </tbody> </table>	Understanding		Speaking		Writing		Listening	Reading	Spoken interaction		Spoken production		C2	C2	C1		C1	C1
Understanding		Speaking		Writing															
Listening	Reading	Spoken interaction		Spoken production															
C2	C2	C1		C1	C1														
Professional skills and competences	<p>Technical skills:</p> <p>Cellular and molecular biology: mammalian cell lines, mouse and human primary cells isolation and culture, bacterial culture, genetic engineering, CFU assays, transfection, lentiviral vectors production and cell transduction, multi-color flow cytometry, confocal microscopy, IHC, cellular fractionation, ChIP, RIP, realtime PCR; array microfluidic cards . Biochemistry: WB, ELISA, IP/Co-IP, enzymatic assays. Mouse biology: colony management, organ isolation, tail bleeding, peritoneal injection.</p> <p>Other professional competences:</p> <ul style="list-style-type: none"> • Teaching activity in the Faculty of Medicine and Surgery "A. Gemelli" • Public speaking: invited speaker to international scientific meetings, intra- and inter-institutional scientific seminars • Associate editor (Frontiers in Cell and Developmental Biology) • Reviewer board member (Frontiers in Oncology; Cancers) • Scientific writing: scientific papers and grants. • Team management: supervision and coordination of undergraduate, PhD students and post-doc fellows 																		

Computer skills and competences	OS and Windows operating systems; scientific data analysis software (statistical analysis, flow cytometry, Image J, confocal microscopy analysis, molecular biology tools) Microsoft Office suite, iWork suite, G suite, Adobe Photoshop, Illustrator and bibliographic software
Other experiences	<p>Transgenic technology: methods and applications. FAES, NIH, Bethesda, MD, U.S.A., 2002</p> <p>Microscopy basics, Alembic, DiBiT-San Raffaele Scientific Institute, Milan, Italy June 2003</p> <p>Member of the Scientific Committee for the 4th Joint PhD Student Workshop, January, 23-25 2006. Astoria Park Hotel, Riva del Garda (TN), Italy</p>
Invited Scientific talks	<p>74° Congresso Nazionale della Società Italiana di Anatomia ed Istologia, September 24-25 2021, Bologna, Italy</p> <p>XV Congresso Nazionale Società Italiana Ematologia Sperimentale, October 18-20 2018 Rimini, Italy</p> <p>72° Congresso Nazionale della Società Italiana di Anatomia ed Istologia, September 20-22 2018, Parma, Italy</p> <p>7th International Symposium On Acute Promyelocytic Leukemia, September 24-27 2017, NH Vittorio Veneto Hotel, Rome, Italy</p> <p>Cells as protein factories meeting, June 28-30 2007, Durham University, Durham, UK</p> <p>ABCD meeting, Membrane traffic and organelle biogenesis, April 13-14 2007, Certosa di Pontignano (SI), Italy</p> <p>Fertilization and activation of Development Gordon Research Conference, July 27 - August 1, 2003, Holderness School, Plymouth, NH, USA</p> <p>Workshop Cortona 2000. April 6-8 2000, Cortona, Italy</p>
Publication List	<p># co-first author; * co-corresponding author</p> <ol style="list-style-type: none"> 1. Fard D, Testa E, Panzeri V, Rizzolio S, Bianchetti G, Napolitano V, Masciarelli S, Fazi F, Maulucci G, Scicchitano BM, Sette C, Visconti MT, Tamagnone L. SEMA6C: a novel adhesion-independent FAK and YAP activator, required for cancer cell viability and growth. <i>Cell Mol Life Sci.</i> 2023 Mar 31;80(4):111. doi: 10.1007/s00018-023-04756-1. 2. Masciarelli S*, Fazi F*, Hendershot LM*. Editorial: Protein homeostasis in growth, development and disease. <i>Front Cell Dev Biol.</i> 2023 Feb 6;11:1150158. doi: 10.3389/fcell.2023.1150158. 3. Śniegocka M, Liccardo F, Fazi F, Masciarelli S. Understanding ER homeostasis and the UPR to enhance treatment efficacy of acute myeloid leukemia. <i>Drug Resist Updat.</i> 2022 Jul 8;64:100853. doi: 10.1016/j.drup.2022.100853. 4. Liccardo F, Iaiza A, Śniegocka M, Masciarelli S, Fazi F. Circular RNAs Activity in the Leukemic Bone Marrow Microenvironment. <i>Noncoding RNA.</i> 2022 Jul 1;8(4):50. doi: 10.3390/ncrna8040050. 5. Iaiza A, Tito C, Ganci F, Sacconi A, Gallo E, Masciarelli S, Fontemaggi G, Fatica A, Melis E, Petrozza V, Venuta F, Marino M, Blandino G, Fazi F. Long Non-Coding RNAs in the Cell Fate Determination of Neoplastic Thymic Epithelial Cells. <i>Front Immunol.</i> 2022 Apr 22;13:867181. doi: 10.3389/fimmu.2022.867181. 6. Travagliani S, Ottone T, Angelini DF, Fiori V, Dominici S, Noguera NI, Śniegocka M, Antonelli S, Irno Consalvo MA, De Bardi M, Banella C, Divona M, Marchesi F, Masciarelli S, Fazi F, Pieraccioli M, Palmieri R, De Angelis G, Buccisano F, Venditti A, Battistini L, Magnani M, Voso MT. CD99 as a novel therapeutic target on leukemic progenitor cells in FLT3-ITD mut AML. <i>2022 Leukemia.</i> 2022 Apr 14. doi: 10.1038/s41375-022-01566-5. Online ahead of print. 7. A. Iaiza, C. Tito1, Z. Ianniello, F. Ganci, V. Laquintana, E. Gallo, A. Sacconi, S. Masciarelli, L. De Angelis, S. Aversa, D. Diso, M. Anile, V. Petrozza, F. Facciolo, E. Melis, E. Pescarmona, F. Venuta, M. Marino, G. Blandino, G. Fontemaggi, A. Fatica, F. Fazi. METTL3-dependent MALAT1 delocalization drives c-Myc induction in Thymic Epithelial Tumors. <i>Clin Epigenetics.</i> 2021 Sep 16;13(1):173. doi: 10.1186/s13148-021-01159-6. 8. Z. Ianniello, M. Sorci, L. Ceci Ginistrelli, A. Iaiza, M. Marchioni, C. Tito, E. Capuano, S. Masciarelli, T. Ottone, C. Attrotto, M. Rizzo, L. Franceschini, S. de Pretis, M.T. Voso, M. Pelizzola, F. Fazi, A. Fatica. New insight into the catalytic -dependent and -independent roles of METTL3 in sustaining aberrant translation in Chronic Myeloid Leukemia. <i>Cell Death Dis.</i> 2021 Sep 24;12(10):870. doi: 10.1038/s41419-021-04169-7. 9. S. Masciarelli# F. Palombarini# A. Incocciati 1 , F. Liccardo, E. Di Fabio, A. Iazzetti, G. Fabrizi, F. Fazi, A. Macone, A. Bonamore, A. Boffi. Self-assembling ferritin-dendrimer nanoparticles for

- targeted delivery of nucleic acids to myeloid leukemia cells. *J. Nanobiotechnology* 2021 Jun 9;19(1):172. doi: 10.1186/s12951-021-00921-5.
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 11. Saracino R, Capponi C, Di Persio S, Boitani C, **Masciarelli S.**, Fazi F, Fera S, Vicini E. Regulation of Gdnf expression by retinoic acid in Sertoli cells. *Mol Reprod Dev.* 2020 Feb 5. doi: 10.1002/mrd.23323. [Epub ahead of print]
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 17. **Masciarelli S***, Capuano E, Ottone T, Divona M, De Panfilis S, Banella C, Noguera NI, Picardi A, Fontemaggi G, Blandino G, Lo-Coco F, Fazi F.* Retinoic acid and arsenic trioxide sensitize acute promyelocytic leukemia cells to ER stress. *Leukemia.* 2017 Aug 4. doi: 10.1038/leu.2017.231. [Epub ahead of print]
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- Monocyte-Macrophage Polarization in Streptozotocin-Induced Diabetic Mice. **PLoS One.** 2015 May 11;10(5):e0126580. doi: 10.1371/journal.pone.0126580..
28. **S. Masciarelli**, R. Quaranta, I. Iosue, G. Colotti, F. Padula, G. Varchi, F. Fazi, and A. Del Rio. A Small-Molecule Targeting the MicroRNA Binding Domain of Argonaute 2 improves the Retinoic Acid Differentiation Response of the Acute Promyelocytic Leukemia Cell Line NB4. **ACS Chem. Biol.** 2014 Aug 15;9(8):1674-9. doi: 10.1021/cb500286b
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- Book chapter:** Degerman, E., Rahn-Landstrom, T., Stenson-Holst, L. Goransson, O., Harndahl, L., Ahmad, F., Choi, Y., **Masciarelli, S.** Liu, H., and Manganiello, V.C. Role for phosphodiesterase 3B in regulation of lipolysis and insulin secretion. In: LeRoith, D., Taylor, S.I., Olefsky, J.M. (eds). **Diabetes Mellitus: A Fundamental and Clinical Text (3rd ed)**, Lippincott-Raven Publishers, Philadelphia, PA. 2003