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CURRICULUM VITAE

PERSONAL INFORMATION	Name and Surname: Simona Delle Monache Department: Department of Biotechnological and Applied Clinical Sciences Address (work): Via Vetoio (Coppito 2, Edificio "Angelo Camillo De Meis"), 67100 City: L'Aquila, postal code 67100 **Nation: Italy** E-mail address (work): **simona.dellemonache@univaq.it**
CURRENT POSITION	Associate Professor in Applied Biology, University of L'Aquila
EDUCATION OTHER QUALIFICATIONS	2004 PhD in Biochemical Science and Psychobiology of cognitive process, University of L'Aquila Qualification to practice Biologist profession 2000 Degree in Biology Science, University of L'Aquila
ACADEMIC APPOINTMENTS	April 2017: She obtained the National Academic Qualification (Abilitazione Scientifica Nazionale, ASN) as Associate Professor in Applied Biology (SSDBIO/13) 2004 Winner by Rector's degree of comparative evaluation for 1 position of Applied Biology Researcher, 05/F1, s.s.d. BIO/13, issued by Sport Science Faculty

TEACHING EXPERIENCE	Participation in a doctoral School Boards 2019- Member of the teaching board of the PhD in "Experimental Medicine" (Dept. of Applied and Biotechnological Clinical Sciences, University of L'Aquila) 2006-2011 Member of the teaching board of the PhD in "Disciplines of Motor and Sports Activities" (Dept. of Biomedical Sciences and Technologies, University of L'Aquila) 2005- present teaching positions at the Bachelor's and Master's Degree Courses of the Faculty of Motor Sciences, in the Faculty of Mathematical, Physical and Natural Sciences (Degree Course in Biology) and in the Faculty of Psychology and carried out tutorial teaching activity as a supervisor of experimental degree theses, according to what is reported in full below in the section dedicated to the didactic activity; - for the teaching assignments held he obtained the title of "Aggregate Professor" - is currently incardinated during the Bachelor of Science in Applied Psychological Sciences Details of the taught courses: 2020- CL in Human movement and sport sciences E3M L-22 (6 CFU-60 hours) General Biology and Elements of Genetics 2015- CL IN APPLIED PSYCHOLOGICAL SCIENCES-L24 1. Biology Applied to psychic activity (P0015), 1 CFU (8 hours) 2008- CLM IN SCIENCE AND TECHNIQUE OF SPORT - LM68 1. Cellular and molecular adaptations, 3 CFU (24 hours) 2008-2010 CL in MOTOR SCIENCES AND SPORTS-L22 1. Anatomy with morphofunctional characteristics of the motor unit 3 CFU (24) 2004- CLM IN SCIENCE AND TECHNIQUES OF PREVENTIVE AND ADAPTED ACTIVITIES - LM67 1. Biology of aging, 4 CFU (32 hours) (C.I. EX Functional biomorphology-Pathophysiology of aging). 2004-2007 CL IN MOTOR SCIENCES 1. General and cellular biology (60 hours) CLM IN SCIENCE AND TECHNIQUE OF SPORT - LM68 1. Cellular and molecular adaptations, 3 CFU SPECIALIZATION SCHOOL FOR SECONDARY TEACHING (SISS) "RAFFAELE LA PORTA" - SECTION L'AQUILA 1. Biology applied to physical exercise in developmental age (24 hours course + 16 hours laboratory)

RESEARCH ACTIVITIES	The research activity of the last 15 years has focused on numerous issues related to molecular mechanisms and signaling involved on physio-pathological angiogenesis.

	The main research are indicated below: - characterization of pathogenetic mechanisms involved on cerebral cavernous malformations (CCM) - application of in vitro and in vivo models to study physiopathological angiogenesis - tumor angiogenesis- development of in vitro and in vivo models of angiogenesis to verify the effect of angiogenic and anti-angiogenic compounds. - Isolation and characterization of stem cells derived from human and murine adipose tissue (ADSC). - Isolation and characterization of stem cells derived from human dental pulp (DPSCs) - application and development of in vitro and in vivo models to study stem cells differentiation - before 2011 the research activity focused on the study of extremely low frequency (ELF) electromagnetic fields effects on biological systems. Human spermatozoa, endothelial cells and breast cancer cells were used.

RESPONSIBILITY IN ACADEMIC ACTIVITIES	January 2020- Member of the Commission "Comunicazione e sito WEB" October 2018- Responsible for coordinating activity of the bachelor's degree in Sport Sciences (L22) 2019- Delegate for the commission "Street Science Organization 2018-: Member of the Commission "Gruppo del Riesame" of didactic commission (CAD) of Sport Sciences, 2018- President of the Commission practices of the three-year-olds Law. 2012-2009-scientific responsible of "Centro Interuniversitario per lo studio delle interazioni tra Campi Elettromagnetici e Biosistemi" (ICEmB) for the University of L'Aquila 2011-co-organizationof thematic day congress of ICEmB "Interactions between electromagnetic fields and nervous system" L'Aquila 20-21 october 2011.

EDITORIAL BOARD, EDITORIAL ACTIVITIES, SOCIETY MEMBERSHIP	International Journal of Molecular Science, Journal of Vascular Research (JVC); Plos one; Oncotarget; Bioelectromagnetics. 2019- member of StemTeCh research group of the University "G. D'Annunzio "of Chieti and of the University of Teramo focused on the realization of experimental projects concerning stem cell issues 2016-present member of Stem Cell Research Italy (SCRI) 2009-present member of the "Icemb (society for the study of the effects of electromagnetic fields) 2012-member of the the AICC (Italian cell culture association) 2003-present member of the AIBG (Italian Association of Biology and Genetics)

SCIENTIFIC ACHIEVEMENTS	**Scopus Author ID: 6506190216 https://orcid.org/0000-0002-8153-915X**

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BIBLIOMETRIC INDICATORS	

SELECTED PUBLICATIONS	

1- Parisi A, Porzio G, Pulcini F, Cannita K, Ficorella C, Mattei V, Delle Monache S. Biomedicines. What Is Known about Theragnostic Strategies in Colorectal Cancer. 2021 Feb 1;9(2):140. doi: 10.3390/biomedicines9020140. PMID: 33535557 Review.

2- Petragnano F, Pietrantoni I, Camero S, Codenotti S, Milazzo L, Vulcano F, Macioce G, Giordani I, Tini P, Cheleschi S, Gravina GL, Festuccia C, Rossetti A, Delle Monache S, Ordinelli A, Ciccarelli C, Mauro A, Barbara B, Antinozzi C, Schiavetti A, Maggio R, Di Luigi L, Polimeni A, Marchese C, Tombolini V, Fanzani A, Bernabò N, Megiorni F, Marampon F. Clinically relevant radioresistant rhabdomyosarcoma cell lines: functional, molecular and immune-related characterization. J Biomed Sci. 2020 Aug 27;27(1):90. doi: 10.1186/s12929-020-00683-6. PMID: 32854690 Free PMC article.

3- Tisi A, Flati V, Delle Monache S, Lozzi L, Passacantando M, Maccarone R. Nanoceria Particles Are an Eligible Candidate to Prevent Age-Related Macular Degeneration by Inhibiting Retinal Pigment Epithelium Cell Death and Autophagy Alterations. Cells. 2020 Jul 4;9(7):1617. doi: 10.3390/cells9071617. PMID: 32635502 Free PMC article.

4- Delle Monache S, Retta SF. Study of CCM Microvascular Endothelial Phenotype by an In Vitro Tubule Differentiation Model. Methods Mol Biol. 2020;2152:371-375. doi: 10.1007/978-1-0716-0640-7_26. PMID: 32524565

5- Delle Monache S, Retta SF. Generation of CCM Phenotype by a Human Microvascular Endothelial Model. Methods Mol Biol. 2020;2152:131-137. doi: 10.1007/978-1-0716-0640-7_10. PMID: 32524549

6- Delle Monache S, Cortellini A, Parisi A, Pulcini F, Martellucci S, Mei C, Danubio ME, Mattei V, Angelucci A, Ficorella C. Expression of pro-angiogenic factors as potential biomarkers in experimental models of colon cancer. J Cancer Res Clin Oncol. 2020 Jun;146(6):1427-1440. doi: 10.1007/s00432-020-03186-x. Epub 2020 Apr 6. PMID: 32300865

7- Festuccia C, Mancini A, Gravina GL, Colapietro A, Vetuschi A, Pompili S, Ventura L, Delle Monache S, Iorio R, Del Fattore A, Fogler W, Magnani J.

Dual CXCR4 and E-Selectin Inhibitor, GMI-1359, Shows Anti-Bone Metastatic Effects and Synergizes with Docetaxel in Prostate Cancer Cell Intraosseous Growth. Cells. 2019 Dec 20;9(1):32. doi: 10.3390/cells9010032. PMID: 31877673 Free PMC article

8- Gravina GL, Mancini A, Colapietro A, Delle Monache S, Sferra R, Pompili S, Vitale F, Martellucci S, Marampon F, Mattei V, Biordi L, Sherris D, Festuccia C. The Brain Penetrating and Dual TORC1/TORC2 Inhibitor, RES529, Elicits Anti-Glioma Activity and Enhances the Therapeutic Effects of Anti-Angiogenetic Compounds in Preclinical Murine Models.

Cancers (Basel). 2019 Oct 21;11(10):1604. doi: 10.3390/cancers11101604.

PMID: 31640252 Free PMC article.

9- Loftus A, Cappariello A, George C, Ucci A, Shefferd K, Green A, Paone R, Ponzetti M, Delle Monache S, Muraca M, Teti A, Rucci N. Extracellular Vesicles From Osteotropic Breast Cancer Cells Affect Bone Resident Cells.

J Bone Miner Res. 2020 Feb;35(2):396-412. doi: 10.1002/jbmr.3891. Epub

2019 Nov 5. PMID: 31610048 Free article.

10- De Felice F, Megiorni F, Pietrantoni I, Tini P, Lessiani G, Mastroiacovo D, Mattana P, Antinozzi C, Di Luigi L, Delle Monache S, Angelucci A, Festuccia C, Fanzani A, Maggio R, Tombolini V, Gravina GL, Marampon F.
Sulodexide counteracts endothelial dysfunction induced by metabolic or non-metabolic stresses through activation of the autophagic program. Eur Rev Med Pharmacol Sci. 2019 Mar;23(6):2669-2680. doi: 10.26355/eurrev_201903_17415. PMID: 30964194

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12- Martellucci, Stefano, Santacroce, Costantino, Santilli, Francesca, Piccoli, Luca, Delle Monache, Simona, Angelucci, Adriano, Misasi, R, Sorice, M, Mattei, Vincenzo (2019). Cellular and Molecular Mechanisms Mediated by recPrPC Involved in the Neuronal Differentiation Process of Mesenchymal Stem Cells.. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, ISSN: 1422-0067

13- Adriano Angelucci, Simona Delle Monache, Alessio Cortellini, Monica Di Padova, Corrado Ficorella (2018). "Vessels in the Storm": Searching for Prognostic and Predictive Angiogenic Factors in Colorectal Cancer. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 19, ISSN: 1661-6596, doi: 10.3390/ijms19010299

14- Simona Delle Monache, Patrizia Di Fulvio, Ester Iannetti, Luca Valerii, Ludovica Capone, Maria Giovanna Nespoli, Mauro Bologna, Adriano Angelucci Show more (2018). Body mass index represents a good predictor of vitamin D status in women independently from age.. CLINICAL NUTRITION, ISSN: 0261-5614

15-Festuccia, C, Mancini, A, Colapietro, A, Gravina, G L, Vitale, F, Marampon, F, Delle Monache, S, Pompili, S, Cristiano, L, Vetuschi, A, Tombolini, V, Chen, Y, Mehrling, T (2018). Correction: The first-in-class alkylating deacetylase inhibitor molecule tinostamustine shows antitumor effects and is synergistic with radiotherapy in preclinical models of glioblastoma (Journal of Hematology and Oncology (2018) 11(32) DOI: 10.1186/s13045-018-0576-6). JOURNAL OF HEMATOLOGY & ONCOLOGY, vol. 11, ISSN: 1756-8722, doi: 10.1186/s13045-018-0587-3

16-Antognelli C, Trapani E, Delle Monache Simona, Perrelli A, Daga M, Pizzimenti S, Barrera G, Cassoni P, Angelucci A, Trabalzini L, Talesa VN, Goitre L, Retta SF. (2018). KRIT1 loss-of-function induces a chronic Nrf2-mediated adaptive homeostasis that sensitizes cells to oxidative stress: Implication for Cerebral Cavernous Malformation disease. FREE RADICAL BIOLOGY & MEDICINE, ISSN: 0891-5849, doi: 10.1016/j

17-Festuccia, Claudio, Mancini, Andrea, Colapietro, Alessandro, Gravina, Giovanni Luca, Vitale, Flora, Marampon, Francesco, Delle Monache, Simona, Pompili, Simona, Cristiano, Loredana, Vetuschi, Antonella, Tombolini, Vincenzo, Chen, Yi, Mehrling, Thomas (2018). The first-in-class alkylating deacetylase inhibitor molecule tinostamustine shows antitumor

effects and is synergistic with radiotherapy in preclinical models of glioblastoma. JOURNAL OF HEMATOLOGY & ONCOLOGY, vol. 11, ISSN: 1756-8722, doi: 10.1186/s13045-018-0576-6

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24-GIUSTI, ILARIA, DELLE MONACHE, SIMONA, DI FRANCESCO, MARIANNA, SANITA', PATRIZIA, D'ASCENZO, SANDRA, GRAVINA, GIOVANNI LUCA, FESTUCCIA, Claudio, DOLO, VINCENZA (2016). From glioblastoma to endothelial cells through extracellular vesicles: messages for angiogenesis. TUMOR BIOLOGY, vol. 37, p. 1-11, ISSN: 1010-4283, doi: 10.1007/s13277-016-5165-0

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33-Mori M, Tintori C, Christopher RS, Radi M, Schenone S, Musumeci F,

	Brullo C, Sanità P, Delle Monache S, Angelucci A, Kissova M, Crespan E, Maga G, Botta M. (2013). A combination strategy to inhibit Pim-1: synergism between noncompetitive and ATP-competitive inhibitors. CHEMMEDCHEM, vol. 8, p. 484-496, ISSN: 1860-7187 34-Delle Monache S, Angelucci A, Sanità P, Iorio R, Bennato F, Mancini F, Gualtieri G, Colonna RC. (2013). Inhibition of Angiogenesis Mediated by Extremely Low-Frequency Magnetic Fields (ELF-MFs). PLOS ONE, vol. 8, p. 1-11, ISSN: 1932-6203, doi: 10.1371/journal.pone.0079309 35-Delle Monache S, Sanità P, Trapasso E, Ursino MR, Dugo P, Russo M, Ferlazzo N, Calapai G, Angelucci A, Navarra M (2013). Mechanisms underlying the anti-tumoral effects of Citrus Bergamia juice. PLOS ONE, vol. 8, ISSN: 1932-6203, doi: 10.1371/journal.pone.0061484 36-Angelucci A, Sanità P, Delle Monache Simona, Vicentini C, Bologna M. (2013) The impact of serum level as biomarker of prostate cancers increases with ageing. Anticancer Research, vol.33, p.2283-2284, ISSN:0250-7005. 37-Iorio R, Delle Monache S, Bennato F, DI BARTOLOMEO C, SCRIMAGLIO R, CINQUE B, COLONNA RC (2011). Involvement of mitochondrial activity in mediating ELF-EMF stimulatory effect on human sperm motility. BIOELECTROMAGNETICS, vol. 32, p. 15-27, ISSN: 0197-8462 38-DELLE MONACHE, SIMONA, ALESSANDRO R, IORIO, Roberto, GUALTIERI G, COLONNA R. (2008). Extremely low frequency electromagnetic fields (ELF-EMFs) induce in vitro angiogenesis process in human endothelial cells. BIOELECTROMAGNETICS, vol. 29 (8), p. 640-648, ISSN: 0197-8462. 39-IORIO R, SCRIMAGLIO R, RANTUCCI E, DELLE MONACHE S, DI GAETANO A, FINETTI N, FRANCAVILLA F, SANTUCCI R, TETTAMANTI E, COLONNA R (2007). A preliminary study of oscillating electromagnetic field effects on human spermatozoon motility. BIOELECTROMAGNETICS, vol. 28, p. 72-75, ISSN: 0197-8462, doi: 10.1002/bem.20278 40-C. TATONE, CARBONE MC, GALLO R, DELLE MONACHE S, DI COLA M, ALESSE E, A-MICARELLI F. (2006). Age-associated changes in mouse oocytes durino post-ovulatory in vitro culture: possibile role for meiotic kinases and survival factor BCL2. BIOLOGY OF REPRODUCTION, vol. 74, p. 395-402, ISSN: 0006-3363 41-CARBONE MC, TATONE C, DELLE MONACHE S, MARCI R, CASERTA D, COLONNA R, AMICARELLI F. (2003). Antioxidant enzymatic defences in human follicular fluid: characterization and age-dependent changes. MOLECULAR HUMAN REPRODUCTION, vol. 9, p. 639-643, ISSN: 1360-9947 42-Tatone C, DELLE MONACHE S, Francione A, Gioia L, Barboni B, Colonna R (2003). Ca2+-independent protein kinase C signalling in mouse eggs during the early phases of fertilization. THE INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY, vol. 47, p. 327-333, ISSN: 0214-6282 43-DELLE MONACHE S, FLORI F, DELLA GIOVAMPAOLA C, CAPONE A, LA SALA GB, ROSATI F, COLONNA R, TATONE C, FOCARELLI R.

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PLACE AND DATE

L'AQUILA 11-01-2021