


PERSONAL INFORMATION



Domitilla Mandatori

 **Work address:** Laboratory of Vascular and Stem Cell Biology, Department of Medical, Oral and Biotechnological Sciences, University "G. d'Annunzio" CHIETI – PESCARA
 Center for Advanced Studies and Technology (CAST, ex CeSI-MeT)
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Sex Female | **Date of birth** 29 December 1987 | **Nationality** Italian

POSITION

RESEARCHER (SSD/BIO13)

Laboratory of VASCULAR and STEM CELL BIOLOGY, Department of Medical, Oral and Biotechnological Sciences, University "G. d'Annunzio" CHIETI – PESCARA, Center for Advanced Studies and Technology (CAST, ex CeSI-MeT), Italy.

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H-Index 7, Citations 138 (source Scopus to January 2022)

EDUCATION AND QUALIFICATIONS

Ongoing

Postgraduate Specialisation in Biochemistry and Clinical Pathology

University "G. d'Annunzio", Chieti-Pescara, (Italy)

2018

Ph.D. in "Biomolecular and Pharmaceutical Sciences"

University "G. d'Annunzio", Chieti-Pescara, (Italy)

2013

Master's degree in medical biotechnology.

Thesis title: "Microvesicles derived from mesenchymal stem cells as possible therapeutic approach to ulcerative colitis". University of L'Aquila, Italy. Degree mark 110/110 *cum laude*

2010

Bachelor's Degree in biotechnology

Thesis title: "Isolation and analysis of a cell population for experimental therapy in murine model of osteopetrosis". University of L'Aquila, Italy. Degree mark 110/110 *cum laude*

WORK EXPERIENCE

July 2020 – December 2022

Post-doctoral Fellow

Department of Medical, Oral and Biotechnological Sciences, SSD MED/46 Area 06, Research Project title: "Identification of new compounds for the pharmacological treatment of pathologies affecting the organs of vision". Laboratory of vascular and stem cell biology (Mentor: Prof. A. Pandolfi), University "G. d'Annunzio" CHIETI – PESCARA, Center for Advanced Studies and Technology (CAST, ex CeSI-MeT), Italy.

April 2020 – June 2020

Technical adviser at the Molecular Genetics Laboratory - COVID19 diagnosis test (CAST. Center for Advanced Studies and Technology), University "G. d'Annunzio" CHIETI – PESCARA)

2019 - 2020

Technical adviser for Dompè Farmaceutici

1 November 2019 to 1 May 2020

2018 - 2019

Post-doctoral Fellow

Department of Medicine and Aging Sciences, Research Project title: " Biomolecular characterization of corneal lenticules and mesenchymal stem cell with potential application in ophtalmology". Laboratory of Vascular and Stem Cell Biology (Mentor: Prof. A. Pandolfi). Centro Scienze dell'Invecchiamento e Medicina Traslazionale, CeSI-MeT, University "G. d'Annunzio ", Chieti-Pescara, Italy.

2014 - 2018

PhD student

Department of Medical, Oral and Biotechnological Sciences, Research title: "The Dual Role of Vitamin K2 in "Bone-Vascular Crosstalk", Laboratory of vascular and stem cell biology (Mentor: Prof. A. Pandolfi) Centro Scienze dell'Invecchiamento e Medicina Traslazionale, CeSI-MeT, University "G. d'Annunzio ", Chieti-Pescara, Italy.

PERSONAL SKILLS

Mother tongue

Italian

Other language

PET (Preliminary English Test) Certificate Level B1.
Frequency Certifications of General English (60 hours) and Conversation (30 hours): Level B2
ESB (English Speaking Board) Certificate Level B2

Digital competence

Good knowledge of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™)
Good knowledge of scientific programs for data analysis (Sigma Plot and GraphPad Prism5 and 6)

ADDITIONAL INFORMATION

Member of Scientific Society

- StemTeCH GROUP
- Stem Cell Research Italy (SCR Italy)
- Gruppo Italiano Staminali Mesenchimali (GISM)
- Società Italiana per lo Studio dell'Aterosclerosi (SISA)

Ad Hoc Reviewer

Annals of Stem Cell Research; Physiological Reports; Biomarkers in Medicine; Acta Diabetologica; Antioxidants; Applied Sciences; Bioengineering; Cancers; Materials; Cells, Metabolites, International Journal of Molecular Sciences, Fermentation, Electronic Journal of Biotechnology

- **Co-Guest Editor for Nutrients Journal.** Special Issue "Dietary Bioactives: Their Role in the Prevention and Treatment of Cardiovascular and Metabolic Bone Diseases"

Acquired methodologies

- Molecular Biology
Polymerase chain reaction (PCR), Reverse transcriptase-polymerase chain reaction (RT-PCR), real time RT-PCR, DNA/RNA/protein extraction methods from cell culture and tissue. Sequencing techniques (Sanger and NGS)
- Methods of transfection and gene silencing (small interfering RNA)
- Cell biology
Primary cell cultures: Induced pluripotent stem cell (iPS) culture, human primary cell cultures (Corneal keratocytes, human umbelical vein endothelial cells, amniotic fluid mesenchymal stem cells, bone marrow mesenchymal stem cell, Wharton Jelly mesenchymal stem cell, osteoblast and osteoclast) and murine primary cell cultures (osteoclast and osteoblast). Cellular biology and cell cryopreservation techniques
- Istology techniques: use of the microtome, immunocytochemistry and immunohistochemistry analyses and good theoretical-practical knowledge of main istological staining
- Microscopy techniques (confocal and elettronic)
- Cytometric analysis (FACS Calibur, FACS Canto, Amnis ImageStream Imaging)
- Electrophoresis techniques and Western Blot analysis (chemiluminescence detection method)
- ELISA and EIA methods
- Ability in manipulating and treat laboratory animals (mice and rats)

Training Courses

- X Meeting of Stem Cell Research Italy (SCR Italy) Naples, 5-7 June 2019
 - 4th National Young Investigators Spring Meeting (SISA, SIIA ed SIMI). "Novità e updates sulla prevenzione e cura della malattia cardiovascolare". Rimini, 28 February – 2 March 2019.
 - IX Meeting of Stem Cell Research Italy (SCR Italy) Milano, 21-23 June 2018 (in attachment)
 - 2018 GISM (Gruppo Italiano Staminali Mesenchimali) Annual Meeting, Assisi, 12-13 April 2018
 - Special Application Training "Basic Flow Cytometry" (Miltenyi Biotec), Bologna 25 November 2017
 - Special Application Training "Advanced Flow Cytometry" (Miltenyi Biotec), Bologna 6 December 2017
 - Seminar: "Chiedere di più al sangue: Nuove domande di ricerca pre-clinica poste a cellule endoteliali circolanti, microvescicole, analisi multiparametriche oltre 20 fluorescenze". BD Biosciences, Hotel Best Western Universo, Rome 20 June 2017
- VIII Meeting of Stem Cell Research Italy (SCR Italy) Chieti, May 25-27 2017
- VIII Meeting of Stem Cell Research Italy (SCR Italy) Bologna, June 21-23 2016
 - VI Annual Meeting of Stem Cell Research Italy (SCR Italy) Bari, June 10-12 2015
 - GibCO Pluripotent Stem Cell Workshop (ThermoFisher Scientific), Glasgow, April 25-27 2017
 - Seminar: "The quality in the processes of Production of Medicines" Department of Pharmacy, "University G. d'Annunzio "of Chieti-Pescara, 22-23 January 2016.
 - Seminar: "La Sperimentazione clinica farmacologica: Università ed Industria farmaceutica verso obiettivi comuni in un Sistema Regolatorio Rinnovato". Dipartimento di Scienze Sperimentali e cliniche, " University G. d'Annunzio "of Chieti-Pescara, 11-12 September 2014
 - LLP ERASMUS INTENSIVE PROGRAM.
Title of program: Stem cell applications: from bench side to bed side, May 26 to June 6 2014, SZECHENYI ISTVAN UNIVERSITY/ GYOR – HUNGARY
 - 1st theoretical and practical course "Translating Stem Cell Therapy For CNS Disorders: Bench To Bedside Preclinical Studies In Stroke, Traumatic Brain Injury, And Epilepsy" Ce.S.I. (Center of Excellent in Aging), Via Luigi Polacchi, Chieti Scalo (CH), University "G. D'Annunzio" of Chieti-Pescara – Italy, February 26-27 2014
 - 1st CIRCULATING ENDOTHELIAL CELLS WORKSHOP
January 16, 2014, Center for Aging Sciences, University "G. D'Annunzio" of Chieti-Pescara – Italy
 - 1st theoretical and practical "NEW HIGH THROUGHPUT TECHNOLOGIES IN MOLECULAR DIAGNOSTICS" University of L'Aquila, October 29, 2013

Research Supervisory and
Training Responsibilities▪ **ASSISTANT SUPERVISOR FOR THESIS:**

Thesis Title: "Human Gingival Fibroblasts (hGDFs): a useful model for the study of the biocompatibility of composite resins in the dentistry field".

Student: Valeria Schiavone.

Degree in Molecular and Applied Biology, Marche Polytechnic University

Academic Years 2019-2020

Università Politecnica delle Marche

▪ **ASSISTANT SUPERVISOR FOR THESIS:**

Thesis Title: "Biocompatibility of Dental Composite Resins Used: Focus on Biomolecular Mechanisms".

Student: Francesco Paolo Melito.

Degree in Biomedical Laboratory Techniques, University G. D'Annunzio of Chieti-Pescara

Academic Years 2018 - 2019

Università G. d'Annunzio Chieti-Pescara

▪ **ASSISTANT SUPERVISOR FOR THESIS:**

Thesis Title: "Role of Vitamin K2 on osteogenic trans-differentiation process of vascular smooth muscle cells isolated from thoracic aorta of Spontaneously Hypertensive".

Student: Valeria Schiavone.

Degree in Biomedical Laboratory Techniques, University G. D'Annunzio of Chieti-Pescara

Academic Years 2016 - 2017

Università G. d'Annunzio Chieti-Pescara

▪ **ASSISTANT SUPERVISOR FOR THESIS:**

Thesis Title: "Dual Role of Vitamin K2 In Homeostasis Bone and Vascular: Study of The Molecular Mechanisms".

Student: Antonia Ranieri. School of Medicine and Health Sciences

Degree in Biomedical Laboratory Techniques, University G. D'Annunzio of Chieti-Pescara

Academic Years 2014 - 2015

Università G. d'Annunzio Chieti-Pescara

Teaching Activity

Subject expert for the discipline Applied Biologu, SSD BIO13, AA 2021/2022.
Subject expert for the discipline Research Methodology, SSD MED46, AA 2020-2021.
Subject expert for the discipline Research Methodology, SSD MED46, AA 2019-2020.
Subject expert for the discipline Research Methodology, SSD MED46, AA 2018-2019.

Conferences at National and International Meetings (Abstract)

INTERNATIONAL

- Francisco José Nicolás, Caterina Pipino, Ángel Bernabé-García, Pamela Di Tomo, Javier Stelling-Férez, Ilaria Cappellacci, Silvia Pappadà, Domitilla Mandatori, Letizia Pelusi, Assunta Pandolfi “*Anti-inflammatory and pro-angiogenic role of amniotic membrane on endothelial cells derived from umbilical cord of women affected by gestational diabetes mellitus: new insights in diabetic foot ulcer.*” 6th World TERMIS Congress. Maastricht, November, 15-19, 2021
- Letizia Pelusi, **Domitilla Mandatori**, Mario Nubile, Manuela Santalucia, Valeria Schiavone, Simone De Fabritiis, Pasquale Simeone, Erminia D’Ugo, Luca Agnifili, Leonardo Mastropasqua, Assunta Pandolfi. “*Human Stromal Lenticule as a bio-scaffold for mesenchymal stem cells and extracellular vesicles: potential innovative model for posterior ocular disease treatment*” 1st International STEMNET Meeting. Padua, September 22-24, 2021
- N. di pietrantonio, M. Shumliakivska, R.S. Soler, **D. Mandatori**, P. di Tomo, G. Formoso, M.P.A. Baldassarre, F. Cosentino, A. Pandolfi. “*Hyperglycemic memory: role of epigenetic signature in the transmission of gestational diabetes-associated inflammatory and pro-oxidant phenotype*”. 57th Annual Meeting European Association for the Study of Diabetes (EASD) Virtual, 27 September – 1 October 2021
- Pierfelice T.V., D’Amico E., Petrini M., Di Pietro N., Mandatori D., Schiavone V., Pelusi L., D’Arcangelo C., Pandolfi A., Piattelli A., Iezzi G. “*Human osteoblasts proliferative response to a novel photodynamic therapy protocol*”. 99th General Session of the International Association for Dental Research Brussel, September 16-18, 2021
- N. Di Pietro, N. Di Pietrantonio, C. Palmerini, P. Di Tomo, **D. Mandatori**, C. Giannini, A. Mohn, G. Bologna, G. Formoso, F. Chiarelli, A. Pandolfi. “*Plasma from pre-pubertal obese children increases monocytes-endothelial interaction: potential mechanisms linking inflammation and insulin resistance*”. 55th Annual Meeting European Association for the Study of Diabetes (EASD) Barcelona, 16-20 September 2019
- Tommaso de Giorgis, Sara Di Silvestre, Angelika Mohn, Natalia Di Pietro, Maria Loredana Marcovecchio, Vincenzo Cordone, **Domitilla Mandatori**, Valentina Chiavaroli, Giuseppina Bologna, Assunta Pandolfi, Francesco Chiarelli. Activation of The ER Stress Response in Cultured Human Umbilical Vein Endothelial Cells (Huvecs) By Plasma Obtained from Prepubertal Obese Children. 53rd European Society for Paediatric Endocrinology Meeting (ESPE). Dublin, September 18 - 20 2014.
- M. Bonomini, S. Di Silvestre, P. Di Tomo, V. Cordone, L. Di Liberato, V. Sirolli, **D. Mandatori**, A. Pandolfi and A. Arduini. Xylitol as An Osmotic Agent for Peritoneal Dialysis: Effects on Endothelial Cells From Diabetic Donors. 15th Congress of the International Society for Peritoneal Dialysis (ISPD). Madrid, September 7-10, 2014
- L. Pochini, M. Bonomini, S. Di Silvestre, P. Cerasoli, L. Di Liberato, S. Belviso, A. Arduini, **D. Mandatori**, A. Pandolfi, C. Indiveri. Organic Cation Transport in Peritoneum 15th Congress of the International Society for Peritoneal Dialysis (ISPD). Madrid, September 7-10, 2014
- Pochini L, Belviso S, Bonomini M, Di Silvestre S, Cerasoli P, Di Liberato L, Arduini A, Mandatori D, Pandolfi A, Indiveri C. Acetylcholine transport in peritoneum mediated by OCTN1. 4th International Symposium on Non-neuronal Acetylcholine (NNACH). Giessen, 28-30 Agosto 2014.

NATIONAL

- Di Pietro Natalia, Di Pietrantonio Nadia, Palmerini Carola, Di Tomo Pamela, **Mandatori Domitilla**, Pelusi Letizia, Mohn Angelika, Bologna Giuseppina, Formoso Gloria, Chiarelli Francesco, Pandolfi Assunta.
“Insulino resistenza ed infiammazione nell’obesità infantile: studio in vitro”.
28th National Congress SID (Società Italiana di Diabetologia)
Virtual, 2 - 5 December 2020

- **Domitilla Mandatori***, Pamela Di Tomo*, Chiara Casamassima, Carola Palmerini, Giuseppina Bologna, Pasquale Simeone, Gloria Formoso, Natalia Di Pietro, Assunta Pandolfi, Caterina Pipino.
“iPS - derived endothelial cells from gestational diabetic umbilical cords: an in vitro model to study the role of epigenetic mechanisms in endothelial dysfunction associated to hyperglycemia”.
X Annual Meeting of Stem Cell Research Italy (SCR Italy)
Naples, 5-7 June 2019

- **Domitilla Mandatori**, Caterina Pipino, Pamela Di Tomo, Valeria Schiavone, Antonia Ranieri, Sara Pantalone, Sara Di Silvestre, Nadia Di Pietrantonio, Mariangela Ucci, Carola Palmerini, Paola Failli, Natalia Di Pietro, Assunta Pandolfi.
“Potential role of menaquinone-4 in osteogenic trans-differentiation of vascular smooth muscle cells isolated from Spontaneously Hypertensive Rats”
4th Spring meeting dei Nazionali Gruppi giovani ricercatori di SIIA, SISA e SIMI. “Novità e updates sulla prevenzione e cura della malattia cardiovascolare”.
Rimini, 28 Febbraio – 2 Marzo 2019.

- **Mandatori Domitilla**, Penolazzi Letizia, Pipino Caterina, Di Tomo Pamela, Di Pietro Natalia, Di Pietrantonio Nadia, Palmerini Carola, Piva Roberta, Pandolfi Assunta.
“The Role of Vitamin K2 in Bone regeneration: from bench to bed side”
Pubbl. Abstract book IX Annual Meeting of Stem Cell Research Italy (SCR Italy)
Milano, 21-23 June 2018

- **D. Mandatori**, C. Pipino, N. Di Pietro, P. Di Tomo, S. Pantalone, S. Di Silvestre, N. Di Pietrantonio, M. Ucci, A. Pandolfi.
“Potential role of Menaquinone-4 (MK-4) in reducing vascular smooth muscle cells (vSMCs) trans-differentiation into osteoblastic-like cells”.
Pubbl. Abstract book VIII Annual Meeting of Stem Cell Research Italy (SCR Italy)
Chieti, May 25-27, 2017

- C. Pipino, **D. Mandatori**, F. Buccella, P. Di Tomo, P. Lanuti, S. Pantalone, G. Bologna, N. Di Pietrantonio, A. Preziuso, M. Ucci, A. Cichelli, R. Piva, G. Martino, A. Pandolfi.
“Bovine breast milk: an underappreciated source of stem cells for regenerative medicine”.
Pubbl. Abstract book VIII Annual Meeting of Stem Cell Research Italy (SCR Italy)
Chieti, May 25-27, 2017

- M. Ucci, **D. Mandatori**, C. Pipino, P. Di Tomo, L. Pierdomenico, S. Pantalone, S. Di Silvestre, N. Di Pietrantonio, N. Di Pietro, R. Piva, A. Pandolfi.
“Wharton’s Jelly Mesenchymal Stem Cells from umbilical cords of gestational diabetic women as a potential model for the study of fetal programming in glucose metabolic disorders”.
Pubbl. Abstract book VIII Annual Meeting of Stem Cell Research Italy (SCR Italy)
Chieti, May 25-27, 2017

- **D. Mandatori**, L. Penolazzi, C. Pipino, P. Di Tomo, N. Di Pietro, S. Trevisani, M. Angelozzi, M. Ucci, R. Piva, A. Pandolfi.
“Vitamin K2 and Bone: Focus on Osteogenesis”
Pubbl. Abstract book VII Annual Meeting of Stem Cell Research Italy (SCR Italy)
Bologna, June 21-23 June 2016

- Alessio N, Di Tomo P, Pipino C, **Mandatori D**, Ucci M, Di Bernardo G, Cipollaro M, De Coppi P, Pandolfi A, Galderisi U.
“DNA repair capacity of AF-MSCs and BM-MSCs following stimulation with exogenous stressor.”
Pubbl. Abstract book del Meeting Stem Cell Research Italy (SCR Italy)
Bologna, Italy, 21-23 June 2016
- Falone S, Di Tomo P, Santini SJ, Di Silvestre S, Cordone V, **Mandatori D**, Formoso G, Amicarelli F, Pandolfi A.
“Characterization of the dicarbonyl and the redox balance stress in human endothelial cell cultures derived from umbelicalcord vein of women with gestational diabetes”.
26° Congresso Nazionale Società Italiana di Diabetologia (SID 2016)
Rimini 4-7 May 2016. Pubbl. Il Diabete (Suppl.1).
- Di Tomo P, Castellano I, Di Silvestre S, Di Pietro N, **Mandatori D**, Pipino C, Formoso G, Palumbo A, Pandolfi A.
“Potential role of anti-inflammatory and / or antioxidant of natural molecules of marine origin in the vascular complications of diabetes”.
26° Congresso Nazionale Società Italiana di Diabetologia (SID 2016)
Rimini 4-7 May 2016. Pubbl. Il Diabete (Suppl.1).
- **D. Mandatori**, C.Pipino, N. Di Pietro, P. Di Tomo, S. Di Silvestre, P. Failli, A. Pandolfi.
“Potential dual role of Vitamin K2 in reducing calcium deposit in vascular smooth muscle cells from hypertensive rats while increasing osteogenesis in human mesenchymal stem cells derived from amniotic fluid”.
VI Annual Meeting of Stem Cell Research Italy (SCR Italy)
Bari, 10-12 June 2015
- N. Alessio, C. Pipino, **D. Mandatori**, P. Di Tomo, A. Ferone, M. Marchisio, P. De Coppi, A. Pandolfi, U. Galderisi.
“Human Amniotic Fluid Mesenchymal Stem cells (AF-MSCs) are less prone to in vitro senescence process compared with bone marrow MSCs”.
VI Annual Meeting of Stem Cell Research Italy (SCR Italy)
Bari, 10-12 June 2015
- C Pipino, P Di Tomo, **D Mandatori**, E Cianci, P Lanuti, M Cutrona, L Penolazzi, L Pierdomenico, E Lambertini, I Antonucci, M Romano, R Piva, M Marchisio, A Pandolfi.
“Calciomimetic R-568 Improves Osteogenic Differentiation of Human Amniotic Fluid Mesenchymal Stem Cells (hAFMSCs) through Calcium Sensing Receptor (CaSR) Activation”.
V Meeting Stem Cell Research Italy (SCR Italy).
Salerno, 28-30 May 2014.
- A. Di Castelnuovo, S. Di Silvestre, P. Di Tomo, A. Bonanni, N. Di Pietro, V. G. Cordone, **D. Mandatori**, C. Pipino, M. A. Toro, G. Formoso, A. Pandolfi.
“Prevalence of Diabetes, Hypertension or Dyslipidemia Not Recognized or not Check In an Italian General Population”
25° Congresso Nazionale Societa' Italiana di Diabetologia (SID).
Bologna, 28-31 May 2014
- N. Di Pietro, S. Di Silvestre, P. Di Tomo, C. Pipino, V. Cordone, **D. Mandatori**, G. Formoso, A. Pandolfi.
“Single Nucleotide Polymorphisms (SNPs) of insulin signalling regulating genes are potentially pathogenic for insulin resistance (IR) and cardiovascular disease (CVD)”.
XVI Congresso Nazionale dell'Associazione Italiana di Biologia e Genetica Generale e Molecolare (AIBG).
Napoli, 26-27 September 2014

- A. Di Castelnuovo, S. Di Silvestre, P. Di Tomo, A. Bonanni, N. Di Pietro, V. G. Cordone, **D. Mandatori**, C. Pipino, M. A. Toro, G. Formoso, A. Pandolfi
 “Prevalence of unrecognized or uncontrolled diabetes, hypertension or dyslipidemia in a general Italian population”
 XXIII Congresso Nazionale della Società Italiana per lo studio dell’Emostasi e della Trombosi (SISSET).
 Milano, 6-9 November 2014

Invited Speaker

- **ORAL COMMUNICATION.** Title of presentation: **“Potential role of menaquinone-4 in osteogenic trans-differentiation of vascular smooth muscle cells isolated from Spontaneously Hypertensive Rats”**.
 4th National Young Investigators Spring meeting (SIIA, SISA e SIMI). “Novità e updates sulla prevenzione e cura della malattia cardiovascolare”. Rimini, 28 February– 2 March 2019.
- **INVITED COMMUNICATION.** Title of presentation: “Cellule Staminali e Dieta. Un Binomio Interessante?”
 Unistem day 2017, March 17, 2017.
 Chieti, University of G. d’Annunzio Chieti-Pescara
- **INVITED COMMUNICATION.** Title of presentation: “Vitamin K2 and Bone: Focus on Osteogenesis”
 VII Annual Meeting of Stem Cell Research Italy (SCR Italy)
 Bologna, June 21-22 -23 June 2016

Awards

- **BEST ORAL COMMUNICATION AWARD 2019.** **“Potential role of menaquinone-4 in osteogenic trans-differentiation of vascular smooth muscle cells isolated from Spontaneously Hypertensive Rats”**.
 4th National Young Investigators Spring meeting (SIIA, SISA e SIMI). “Novità e updates sulla prevenzione e cura della malattia cardiovascolare”.
 Rimini, 28 February– 2 March 2019.
- **SELECTED POSTER PRESENTATION SCR-ITALY AWARD 2018**
Mandatori Domitilla, Penolazzi Letizia, Pipino Caterina, Di Tomo Pamela, Di Pietro Natalia, Di Pietrantonio Nadia, Palmerini Carola, Piva Roberta, Pandolfi Assunta.
 “The Role of Vitamin K2 in Bone regeneration: from bench to bed side”
 Pubbl. Abstract book IX Annual Meeting of Stem Cell Research Italy (SCR Italy)
 Milan, 21-23 June 2018
- **SELECTED POSTER PRESENTATION SCR-ITALY AWARD 2017**
D. Mandatori, C. Pipino, N. Di Pietro, P. Di Tomo, S. Pantalone, S. Di Silvestre, N. Di Pietrantonio, M. Ucci, A. Pandolfi.
 “Potential role of Menaquinone-4 (MK-4) in reducing vascular smooth muscle cells (vSMCs) trans-differentiation into osteoblastic-like cells”.
 Pubbl. Abstract book VIII Annual Meeting of Stem Cell Research Italy (SCR Italy).
 Chieti, May 25-27, 2017.

Patents

- European Patent n° 20179055.7-1109, 09/06/2020, “New Drug Delivery System for Ophthalmic Use”.

Original Peer-Reviewed Publications (total number)

20

Peer-Reviewed Publications

- Letizia Pelusi, Valeria Schiavone, Giuseppina Bologna, Pietro Cerritelli, Deborah Lezza, Andrea Pantalone, Manuela Santalucia, Roberto Buda, Assunta Pandolfi, Domitilla Mandatori. "Chondrogenic Differentiation of Human Wharton's Jelly and Bone Marrow-Derived Mesenchymal Stem Cells: Focus on the Role of an Acrylamide-Free Cross-Linked Hyaluronic Acid Hydrogel". *Journal of Orthopedic Research and Therapy*, December 2021: **IF: 1.02**
- Federico Anaclerio^o, Rossella Ferrante^o, Domitilla Mandatori⁺, Ivana Antonucci, Matteo Capanna, Verena Damiani, Pamela Di Tomo, Roberto Ferrante, Marianna Ranaudo, Vincenzo De Laurenzi, Liborio Stuppia, Simone De Fabritiis. "Different strategies for the identification of SARS-CoV-2 variants in the laboratory practice". *Genes*, September 2021: **IF: 4.096**
- Francesco De Angelis[†], **Domitilla Mandatori[†]**, Valeria Schiavone, Francesco Paolo Melito, Silvia Valentinuzzi, Mirco Vadini, Pamela Di Tomo, Lorenzo Vanini, Letizia Pelusi, Caterina Pipino, Piero Del Boccio, Camillo D'Arcangelo, and Assunta Pandolfi. "Cytotoxic and Genotoxic Effects of Composite Resins on Cultured Human Gingival Fibroblasts". *Materials*, September 2021: **IF: 3.623**
- Morena Petrini[†], Tania Vanessa Pierfelice[†], Emira D'Amico, Natalia Di Pietro^{*}, Assunta Pandolfi, Camillo D'Arcangelo, Francesco De Angelis, **Domitilla Mandatori**, Valeria Schiavone, Adriano Piattelli and Giovanna Iezzi. "Influence of Nano, Micro, and Macro Topography of Dental Implant Surfaces on Human Gingival Fibroblasts". *Int J Mol Sci*, September 2021: **IF: 5.923**
- Domitilla Mandatori[†], Letizia Penolazzi[†], Letizia Pelusi, Elisabetta Lambertini, Francesca Michelucci, Annamaria Porreca, Pietro Cerritelli, Caterina Pipino, Angelo Di Iorio, Danilo Bruni, Marta Di Nicola, Roberto Buda, Roberta Piva^{*}, and Assunta Pandolfi^{*}. "Three-Dimensional Co-Culture System of Human Osteoblasts and Osteoclast Precursors from Osteoporotic Patients as an Innovative Model to Study the Role of Nutrients: Focus on Vitamin K2". *Nutrients*, Aug 2021. **IF: 5.717**
- Damiani V, Mandatori D, De Fabritiis S, Bibbò S, Ferrante R, Di Giuseppe F, Ruggieri AG, Di Camillo C, Buccolini C, Pizzi D, Fazii P, Stuppia L, De Laurenzi V. Severe acute respiratory coronavirus virus 2 (SARS-CoV-2) infection in asymptomatic vaccinated healthcare workers. *Infect Control Hosp Epidemiol*. 2021 May. **IF: 2.938**
- **Mandatori D^{*}**, Pelusi L, Schiavone V, Pipino C, Di Pietro N, Pandolfi A. "The dual role of vitamin K2 in "bone-vascular crosstalk": Opposite effects on bone loss and vascular calcification". *Nutrients*, Apr 2021. **IF: 5.717**
- Elisabetta Lambertini, Letizia Penolazzi, Assunta Pandolfi, **Domitilla Mandatori**, Vincenzo Sollazzo, Roberta Piva. "Human osteoclasts/osteoblasts 3D dynamic co-culture system to study the beneficial effects of glucosamine on bone microenvironment". *Int J Mol Sci*, Apr 2021. **IF: 4.556**
- Carola Palmerini, Luca Piscitani, Giuseppina Bologna, Chiara Riganti, Paola Lanuti, **Domitilla Mandatori**, Lorenzo Di Liberato, Giorgia Di Fulvio, Vittorio Sirolli, Giulia Renda, Caterina Pipino, Marco Marchisio, Mario Bonomini, Assunta Pandolfi, Natalia Di Pietro. "Predialysis and Dialysis Therapies Differently Affect Nitric Oxide Synthetic Pathway in Red Blood Cells from Uremic Patients: Focus on Peritoneal Dialysis". *Int J Mol Sci*, Mar 2021. **IF: 5.923**
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