

**PERSONAL INFORMATION**



**CATERINA PIPINO**

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**POSITION**

**RESEARCHER** (RTDB, SSD BIO/13 Applied Biology)  
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, Italy.

**Scopus Author ID** 55096892200  
**RESEARCH ID** N-2078-2019  
**ORCID ID** orcid.org/0000-0002-4350-8686  
**H-Index 15, Citations 630** (Scopus)

**EDUCATION AND QUALIFICATIONS**

- 2013 **Ph.D. in “Biomedical Sciences”, Doctor Europaeus**  
University “G. d’Annunzio” Chieti-Pescara (Italy) and University College of London (UCL), London (UK)
- 2008 **Italian Government Pharmacist Licence**  
University “G. d’Annunzio” Chieti-Pescara, Italy
- 2008 **Chemistry and Pharmaceutical Technologies degree**  
Single cycle Degree/Combined Bachelor and Master, University “G. d’Annunzio” Chieti-Pescara
- 2018 National Scientific Habilitation as Associate Professor, 05/F1 – Applied Biology (from 18/09/2018 to 18/09/2027)
- 2018 National Scientific Habilitation as Associate Professor, 06/N1 – Science of Health Professions and Applied Medical Technologies (from 15/10/2018 to 15/10/2027)

**WORK EXPERIENCE**

- 2022-ongoing **Researcher (RTDB SSD BIO/13 Applied Biology)**  
Department of Medical, Oral and Biotechnological Sciences. Laboratory of Vascular and Stem Cell Biology, University “G. d’Annunzio” Chieti-Pescara, Center for Advanced Studies and Technology - CAST (Italy).

2019 - 2022

### Researcher (RTDA)

Department of Medical, Oral and Biotechnological Sciences, SSD AGR/15 Area 07, Research Project title: "Innovative technological solutions for the enhancement of agro-food processing products. Focus on nutraceuticals and selected foods". Laboratory of Vascular and Stem Cell Biology, University "G. d'Annunzio" Chieti – Pescara, Center for Advanced Studies and Technology - CAST, Italy.

2016 - 2019

### Post-doctoral Fellow

Department of Genetics & Epidemiology, Joslin Diabetes Center, Harvard Medical School, Boston, USA. Research Project title: "Assessment of the metabolomics profiling of primary endothelial cells in basal conditions and after exposure to high glucose to study the development of diabetic complications associated to type 2 diabetes" (Mentor: Professor Alessandro Doria).

2013 - 2016

### Post-doctoral Fellow

Department of Medical, Oral and Biotechnological Sciences, SSD MED/46 Area 06, CeSI (Center for Excellence on Ageing), University "G. d'Annunzio" Chieti-Pescara. Research Project title: "Induced pluripotent stem cells derived from amniotic fluid stem cells. New tool for the treatment of congenital diseases" (Mentor: Prof. Assunta Pandolfi).

2011 - 2012

### Visiting PhD student

UCL (University College of London), London (UK) (Mentor: Dr. Paolo De Coppi). "Characterization of human amniotic fluid mesenchymal stem cells; generation, characterization and differentiation of Induced Pluripotent Stem (iPS) cells from disease amniotic fluid cells as an *in vitro* model to study the mechanism of disease and test new drugs".

2009 - 2013

### PhD student

Department of Biomedical Sciences, O.U. Blood Vessel Pathophysiology (Mentor: Prof. A. Pandolfi), CeSI (Center for Excellence on Ageing), University "G. d'Annunzio" Chieti-Pescara. "Generation and differentiation of Trisomy 21 Induced Pluripotent Stem Cells as an *in vitro* model to study the mechanism of disease".

2008 - 2009

### Fellowship in Cell Biology

Department of Biomedical Sciences, O.U. Blood Vessel Pathophysiology (Mentor: Prof. A. Pandolfi), CeSI (Center for Excellence on Ageing), University "G. d'Annunzio" Chieti-Pescara, Italy.

## MAIN TRAINING COURSES

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2019-2020

### Training Course "Introduction to Omics Research"

Harvard Catalyst Education Program, Harvard Medical School, Boston.

2019-2020

### Training Course "Successful Grant Writing Strategies"

Harvard Catalyst Education Program, Harvard Medical School, Boston.

2019 (Sept - July)

### Course in Applied Biostatistics

Certificate in applied biostatistics, Harvard Medical School, Boston.

2016 (29-31 October)

### Training Course "Induced Pluripotent Stem Cell Culture"

iPS core facility, Joslin Diabetes Center, Boston.

2011

### Training Course for Animal Users

University College of London (UCL). Certificate number: UCL/11/055. UCL, London (UK)

## PERSONAL SKILLS

### Languages

Italian (native), English (fluent)

### Digital competence

Microsoft Office (Word, Excel, Power Point), graphic processing programs (Image J, Photoshop), statistical software (GraphPad, basic knowledge of R)

## ADDITIONAL INFORMATION

### Member of Scientific Society

2023- AIBG (Italian Association of Biology and Genetics)  
 2020- COST (European Cooperation in Science and Technology)  
 2019- SISA (Italian Society for the Study of Atherosclerosis)  
 2017- ADA (American Diabetes Association)  
 2016- EASD (European Association for the Study of Diabetes)  
 2016- SID (Italian Society of Diabetes)  
 2010- Siset (Italian Society for the Study of Haemostasis and Thrombosis)  
 2010- iNOS (Italian Nitric Oxide Society)  
 2009- SCR Italy (Stem Cell Research Italy)  
 2009- StemTech Group (group for the study of Stem Cells, Chieti-Teramo)

### Ad hoc Reviewer

Stem Cells and Development, Acta Histochemica, Current Stem Cell Research & Therapy, Innate Immunity, AASCIT journals, Oxidative Medicine and Cellular Longevity, Molecular Reproduction and Development, Materials, Applied Sciences, Bioengineering, Biomedicines, Stem Cells, Microvascular Research, BioMed Research International, Tissue and Cell, International Journal of Molecular Sciences, Cells, Toxins, Histology and Histopathology, Molecular structure, Molecules, PlosOne, Scientific Reports, Antioxidant.

### Editorial Board member

Stem Cell and Translational Investigation  
 Stem Cell Research and Therapeutics  
 International Journal of Stem Cell & Research  
 AASCIT Journal (The American Association for Science and Technology)  
 Global Journal of Food Science and Clinical Nutrition

**Topic Editor** of Clinical Cytology, Journal of Clinical Medicine (MDPI)

**Section Editor** of Current Stem Cell Research & Therapy

**Lead Editor** "Stem Cell International", Special Issue "Fetal Stem Cells in Prenatal Therapy and Beyond"

**Guest Editor** "International Journal of Molecular Sciences", Special Issue "Natural Bioactive Compounds to Promote Cardiovascular Health"

**Guest Editor** IJERPH journal, Special Issue "Oncological Rehabilitation: Strengths and Weaknesses for a Global Interdisciplinary Management of the Cancer Patient and Novel Future Perspectives during COVID Emergency"

**Guest Editor** International Journal of Environmental Research and Public Health, Special Issue "The Effects of Physical Activity and Psychological Intervention on Musculoskeletal Disorders"

**Guest Editor** Frontiers in Endocrinology, Special Issue "Preventing cardiovascular complications of type 2 diabetes"

### Participation in Founded Projects

**- 2021-ongoing Finalizzata Sanità Giovani Ricercatori 2019 (Responsible of Unit Chieti)**

Project title: Precision medicine in type 2 diabetes: insight and validation of genetic-dependent cardiovascular response to fenofibrate. A genetic-driven randomized clinical trial.

**- 2022 Governo della Spagna, Ministero della Scienza e dell'Innovazione, Call for Health Research Project:** "Fibroin scaffold functionalized with perinatal cells for the treatment of chronic wounds and diabetic foot ulcers". PI Dr Francisco J. Nicolás Villaescusa (Laboratorio de Regeneración, Oncología Molecular y TGFβ. IMIB-Arixaca, 30120 El Palmar, Murcia, Spain). (36 months-ongoing).

**- 2020-2021 Banca d'Italia:** "Studio del differenziamento osteo-cartilagineo di cellule staminali da cordone ombelicale e da midollo osseo. Ruolo delle ialuronato cross-linkato".

- **2019 PON MISE:** "Identificazione di nuovi composti per il trattamento farmacologico di patologie ad elevato bisogno di cura a carico degli organi della vista e dell'udito". (41 months-ongoing)
- **2018-2022 COST (European Cooperation in Science and Technology CA 17116)** International Network for Translating Research on PnD into Therapeutic Approches EU Framework Programme Horizon.
- **2017 POR FESR Abruzzo 2014-2020: EU (2015) 5818 del 13/08/2015; Action 1.1.4: N°39: SANI: SAper Nutrire.**
- **2016-2019 SANOFI-USA:** "Glutamate and alpha-glutamyl cycle alterations in the development of diabetic complications".
- **2014-2015 IBERSAN-SANTIVERI Spain:** "Potenziale ruolo della Vitamina K2 nell'omeostasi vascolare e nell'osteogenesi".
- **2011-2013 GLOMERIA, Switzerland:** "Infiammazione vascolare e dialisi peritoneale: modelli di studio in vitro".
- **2010-2012 EFSD/Servier European Research Programme on Vascular Complications of Type 2 Diabetes (European Foundation for the Study of Diabetes).**
- **2010-2012 Fondazione Carichieti, Italy:** "Cellule di liquido amniotico nella medicina rigenerativa: caratterizzazione, differenziamento osteogenico e neurogenico ed efficacia terapeutica in studi pre-clinici"
- **2008-2012 ERA-AMGEN, USA:** "R-568 and Amniotic Fluid Stem Cells osteoblastic differentiation"
- **2005-2008 MIPAAF:** "Carotenoid's activity in the human health".

## Teaching

**2021-2022: Teaching assignment, PhD course in Biomolecular and Pharmaceutical Sciences (36 e 37 cycle)**, University G. d'Annunzio Chieti-Pescara. "Role of scientific research in understanding the biomolecular basis of human nutrition" (SSD BIO/13).

**2021-2022: Teaching assignment School of Specialization in Oral Surgery**, II year. University G. d'Annunzio Chieti-Pescara.

**2021-2022: Teaching assignment, Bachelor's degree in Dietistics** II year, Food Sciences and Technologies within the Integrated Course "Food sciences and technologies, product and veterinary medicine", University G. d'Annunzio Chieti-Pescara.

**2020-2021: Teaching assignment, Bachelor's degree in Dietistics** II year, Food Sciences and Technologies within the Integrated Course "Food sciences and technologies, product and veterinary medicine", University G. d'Annunzio Chieti-Pescara.

**2019-2020: Teaching assignment, Bachelor's degree in Dietistics** II year, Food Sciences and Technologies within the Integrated Course "Food sciences and technologies, product and veterinary medicine", University G. d'Annunzio Chieti-Pescara.

**2019-2020: Integrative teaching to the Master's Degree** in Food and Health Sciences. "Mediterranean model of nutrition and health. Focus on bioactive compounds and cellular models". School of Medicine, G. d'Annunzio University, Chieti.

**2015-2018: Integrative teaching (Cultore della Materia)** in the discipline "Scientific Research Methodology" (SSD MED/46) at the Course in Biomedical Laboratory Techniques, University G. d'Annunzio, Chieti. "Stem cells and regenerative medicine".

## Teaching activity at International and foreign universities

**2021-2022: Teaching assignment at the Ludwig Boltzmann Institute for Traumatology Vienna** (2 CFU=16 hours), in the discipline "Tissue Engineering and Regenerative Medicine" (SSD BIO/13), University of Vienna, Austria. Erasmus mobility program for teaching 2021/22.

**2021-2022: Teaching assignment at Unicamillus Rome** (1 CFU=6 hours), in the activity discipline "Mediterranean model of nutrition and health. Focus on innovative cellular models" (SSD BIO/13), Master's Degree in Human Nutrition Sciences, 1st year.

**2022-2023: Teaching assignment at Unicamillus Rome** (1 CFU=6 hours), in the activity discipline "Mediterranean model of nutrition and health. Focus on omics sciences" (SSD BIO/13), Master's Degree in Human Nutrition Sciences, 1st year.

## Research Supervisory and Training Responsibilities

**2023- ongoing:** Master's degree thesis supervisor in Human Nutrition Sciences of 14 students and thesis co-supervisor of 5 students (Unicamillus Rome).

**2022-ongoing:** Bachelor's degree thesis supervisor and internship tutor of Riccardo Almonti, Degree thesis in Dietetics, University G. d'Annunzio Chieti-Pescara. Thesis title: "Antioxidants from food waste. Implications for physical activity and healthy aging".

**2022:** Tutor of Javier Stelling Ferez, Visiting PhD student from UCAM University, Murcia, Spain, supported by the COST action program (3 months). "OA potential anti-inflammatory and pro-angiogenic properties on endothelial in vitro models".

**2022:** Supervisor of Bianca Fede (University of Brazil), SISM (Italian Secretary of Medicine students) exchange program for research (1 month). University G. d'Annunzio Chieti-Pescara.

**2022:** Supervisor of Ian Inestroza (University of Honduras), SISM (Italian Student Secretary of Medicine) exchange program for research (1 month). University G. d'Annunzio Chieti-Pescara.

**2021:** Tutor of Ilaria Cappellacci supported by the Finalizzata Sanità 2019 project, PI Dr. Caterina Pipino. G. d'Annunzio University of Chieti-Pescara.

**2021:** Supervisor of Grazia Senatore (University of Salerno) and Myriam Traulo (University Tor Vergata, Rome), within the SISM exchange program (Italian Secretary of Medicine students) for research (1 month). Project title: "Potential protective role of nutritional molecules in cardiovascular and bone diseases: use of innovative cell culture models". G. d'Annunzio University Chieti-Pescara.

**2021:** Supervisor of Adrián Alejandro Moreno Mares (University of Mexico), within the SISM exchange program (Italian Secretary of Medicine students) for research (1 month). University G. d'Annunzio Chieti-Pescara.

**2020:** Thesis co-supervisor of Ilaria Cappellacci, Master's degree thesis in the course of Medical Biotechnologies, University of Padua. Thesis title: "Association of human amniotic membrane and endothelial cells: a novel in vitro system to study wound healing mechanisms in diabetic foot ulcer".

**2020:** Thesis co-supervisor of Silvia Pappadà, Master's degree thesis in Biomedical Laboratory Techniques. Thesis title: "Amniotic membrane and human endothelial cell cultures: an innovative model for studying the healing mechanisms of diabetic foot ulcers". G. d'Annunzio University Chieti-Pescara.

**2019:** Supervisor of Sama Ramos (University of Caxias do Sul, RS, Brazil), within the SISM (Italian Secretary of Medicine Students) exchange program for research (1 month). G. d'Annunzio University Chieti-Pescara.

**2015:** Thesis co-supervisor of Alessandra Prezioso, Master's degree thesis in Biomedical laboratory techniques. Thesis title: "Isolation and characterization of stem cells potentially present in bovine milk. Possible developments in regenerative medicine in the livestock sector". G. d'Annunzio University Chieti-Pescara.

**2013:** Supervisor of Reza Sorbi (University of Tehran, Iran), within the SISM (Italian Secretary of Medicine Students) exchange program for research (1 month). G. d'Annunzio University Chieti-Pescara.

**2007:** Tutor for the discipline of Analytical Chemistry with teaching support activities. Faculty of Pharmacy, Master's degree in Chemistry and Pharmaceutical Technologies (1 year, 2007/2008). G. d'Annunzio University Chieti-Pescara.

Academic Commitment	<b>Member of the “Third Mission” committee</b> , Department of Medical, Oral and Biotechnological Sciences, University G. d’Annunzio, Chieti.
Conferences at National and International Meetings	Participation with ORAL COMMUNICATIONS or POSTER PRESENTATION to 60 National Conferences (2009-2019) and 30 International Conferences (2009-2019), with Peer Reviewed Published Abstracts.
Invited Speaker and Chair	<p><b>3 March 2023</b> “Basic research: omics sciences”. DIADEMY- Master Academy in Diabetes for endocrinologists.</p> <p><b>23-24-25 September 2020</b> “Mediterranean model of nutrition and health. Focus on bioactive compounds and cell models”. Master’s Degree Course in Food and Health Sciences, University G. D’Annunzio, Chieti.</p> <p><b>14 June 2020</b> “The 1q25 T2D-specific cardiovascular locus is associated with Y-glutamyl cycle and glyoxalase system alterations in endothelial cells: A metabolomics study”. Spring meeting young researchers.</p> <p><b>10-12 June 2015</b> “Osteogenic differentiation of amniotic fluid mesenchymal stromal cells and their bone regeneration potential”. Journal of Regenerative Medicine. VI Meeting Stem Cell Research Italy, Bari, Italy.</p> <p><b>23 November 2015</b> “Induced pluripotent stem cells: definition and applications”. Continuing Medical Education (ECM) course for biologists, Institute C.C.S. Mendel “Casa sollievo della sofferenza” Rome, Italy.</p> <p><b>28 March 2015</b> “Stem cells and prevention: a possible combination?” Continuing Medical Education course, Italian hygiene society (SITI Abruzzo - Molise), University “G. d’Annunzio” Chieti-Pescara, Italy.</p> <p><b>9 October 2014</b> “Stem cells from amniotic fluid: biomolecular characterization of osteogenic differentiation”. Meeting “Stem cells in regenerative medicine: new perspectives for the treatment of aging pathologies”, University G. d’Annunzio, Chieti-Pescara, Italy.</p> <p><b>25-26 May 2017</b>: Chair Session “Stem Cell application: from basic to applied research” VIII National Conference SCR Italy, Chieti.</p> <p><b>21-23 June 2016</b>: Chair Session “Stem Cell and Disease” VII National Conference SCR Italy, Bologna.</p>
Awards, fellowships, and appointments received for research activities	<p><b>August 2019-ongoing</b> Researcher position, Programma Operativo Nazionale (PON) Ricerca e Innovazione 2014-2020 - Fondo Sociale Europeo, Azione I.2 “<u>AIM: Attraction and International Mobility</u>” – D.D. n 407 del 27/02/2018.</p> <p><b>4-25 November 2019</b>: Short Term Scientific Mission supported by COST action in the Laboratory of Regeneración, Oncología Molecular y TGFβ of the Institute of Biomedical Research of Murcia (IMIB_Arixaca), Murcia, Spain.</p> <p><b>July 2016-July 2019</b>: Fellowship at Harvard Medical school, Joslin Diabetes center, Boston, USA.</p> <p><b>2013-2016</b>: Research Fellow position (SSD 06/N1), Department of Medical, Oral and Biotechnological Sciences, University G. d’Annunzio Chieti-Pescara.</p> <p><b>2011</b>: Regional Fellowship Grant for Research and High Education abroad. PROGETTO SPECIALE MULTIASSE “RETI PER L’ALTA FORMAZIONE” – P.O. F.S.E. 2007-2013 PIANO OPERATIVO 2009-2010-2011. Project: “Induced pluripotent stem cells can be derived successfully from amniotic fluid stem cells”. University G. d’Annunzio Chieti and UCL London, UK.</p>

**2011:** Research Fellowship Grant Amgen (American multinational biopharmaceutical company) "Evaluation of the role of calcium R568 in the osteogenic differentiation of human stem cells". Department of Biomedical Sciences, O.U. Blood Vessel Pathophysiology, University "G. d'Annunzio" Chieti-Pescara, Italy.

**April-Sept 2009:** Research Fellowship Grant MIPAAF (Italian Ministry of Agricultural, Food and Forestry Policies). "Carotenoid activities of nutritional interest in human health". Department of Biomedical Sciences, O.U. Blood Vessel Pathophysiology, University "G. d'Annunzio" Chieti-Pescara, Italy.

**2012:** Young Investigator Award SCR (Stem Cell Research) Italy. Ferrara, 20-22 June 2012. Oral communication: "Reprogramming disease amniotic fluid stem cells into induced pluripotent stem cells. A new source for iPS banking of disease specific cells?".

**2010:** Young Investigator Award Siset (Italian Society for the Study of Haemostasis and Thrombosis). Bologna, 28-31 October 2010. Oral communication: "Inducible Nitric Oxide Synthase (iNOS) regulation by Ca<sup>2+</sup>/Calmodulin-dependent Protein Kinase II in vascular smooth muscle cells (vSMC) from diabetic rats".

## Book chapter

1. **Caterina Pipino**, Ilaria Cappellacci, Javier Stelling-Férez, Ángel Bernabé-García, Domitilla Mandatori, Nadia Di Pietrantonio, Carlos Navalón, Francisco José Nicolás, Assunta Pandolfi. "Perinatal tissues to study in vitro mechanisms of inflammation and angiogenesis. Novel insight on diabetic non healing wound". Published by BP International 2023.
2. **Caterina Pipino**, Ilaria Cappellacci, Letizia Pelusi, Nadia Di Pietrantonio, Domitilla Mandatori, Natalia Di Pietro, Assunta Pandolfi. Amniotic Fluid Mesenchymal Stromal Cells as Innovative and Advantageous Resource for Bone Regeneration. Published by BP International 2022.
3. **Caterina Pipino**, Beatriz Martín-García, Ana M<sup>a</sup> Gómez-Caravaca and Vito Verardo. OLIVE OIL: COMPOSITION AND BIOACTIVITY. Food Science and Technology, Super and Nutraceutical Foods Composition and Technology book. Published by Nova Science Publishers, Inc. New York, 2021.
4. Domitilla Mandatori, Letizia Pelusi, Valeria Schiavone, **Caterina Pipino**, Natalia Dii Pietro and Assunta Pandolfi. The Dual Role of Vitamin K2 in "Bone Vascular Crosstalk": Opposite Effects on Bone Loss and Vascular Calcification. In: Eloy A Zepeda-Carrillo, editor. Prime Archives in Nutrition. Hyderabad, India: Vide Leaf. 2021.

## Original Peer-Reviewed Publications (total number)

40

## Peer-Reviewed Publications (last 10 years)

1. Efthymakis K, Bologna G, Simeone P, Pierdomenico L, Catitti G, Vespa S, Milano A, De Bellis D, Laterza F, Pandolfi A, **Pipino C**, Salles M, Marchisio M, Miscia S, Neri M, Lanuti P. Circulating Extracellular Vesicles are increased in newly 2 diagnosed Celiac Disease patients. *Nutrients* **2022**, 14, x. <https://doi.org/10.3390/xxxx>
2. Morieri ML, **Pipino C**, Doria A. Pharmacogenetics of Cardiovascular Prevention in Diabetes: From Precision Medicine to Identification of Novel Targets. *J Pers Med.* **2022** Aug 29;12(9):1402. doi: 10.3390/jpm12091402.
3. Flores AI, **Pipino C**, Jerman UD, Liarte S, Gindraux F, Kreft ME, Nicolas FJ, Pandolfi A, Tratnjek L, Giebel B, Pozzobon M, Silini AR, Parolini O, Eissner G, Lang-Olip I. Perinatal derivatives: How to best characterize their multimodal functions in vitro. Part C: Inflammation, angiogenesis, and wound healing. *Front Bioeng Biotechnol* **2022** Aug 4; 10:965006. doi:10.3389/fbioe.2022.965006.
4. Pelusi L, Mandatori D, Di Pietrantonio N, Del Pizzo F, Di Tomo P, Di Pietro N, Buda R, Genovese S, Epifano F, Pandolfi A, Fiorito S, **Pipino C**. Estrogen Receptor 1 (ESR1) and the Wnt/ $\beta$ -Catenin Pathway Mediate the Effect of the Coumarin Derivative Umbelliferon on Bone Mineralization. *Nutrients* **2022** Aug 5;14(15):3209. doi: 10.3390/nu14153209.
5. **Pipino C**, Bernabé-García A, Cappellacci I, Stelling-Férez J, Di Tomo P, Santalucia M, Navalón C, Pandolfi A, Nicolás FJ. Effect of human amniotic membrane on umbilical vein endothelial cells of gestational diabetic mothers: new insight on inflammation and angiogenesis. *Front Bioeng Biotechnol.* **2022** Jul 5; 10:854845. doi: 10.3389/fbioe.2022.854845.
6. Baldassarre MPA, **Pipino C**, Pandolfi A, Consoli A, Di Pietro N, Formoso G. Old and New Biomarkers Associated with Endothelial Dysfunction in Chronic Hyperglycemia. *Oxid Med Cell Longev.* **2021** Dec 27; 2021:7887426. doi: 10.1155/2021/7887426.
7. De Angelis F, Mandatori D, Schiavone V, Melito FP, Valentiniuzzi S, Vadini M, Di Tomo P, Vanini L, Pelusi L, **Pipino C**, Del Boccio P, D'Arcangelo C, Pandolfi A. Cytotoxic and Genotoxic Effects of Composite Resins on Cultured Human Gingival Fibroblasts. *Materials (Basel).* **2021** Sep 11;14(18):5225. doi: 10.3390/ma14185225.
8. Mandatori D, Penolazzi L, Pelusi L, Lambertini E, Michelucci F, Porreca A, Cerritelli P, **Pipino C**, Di Iorio A, Bruni D, Di Nicola M, Buda R, Piva R, Pandolfi A. 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* **2021** Aug 17;13(8):2823.
9. Lambertini E, Penolazzi L, Pelliello G, **Pipino C**, Pandolfi A, Fiorito S, Epifano F, Genovese S, Piva R. Pro-Osteogenic Properties of Violina pumpkin (*Cucurbita moschata*) Leaf Extracts: Data from In Vitro Human Primary Cell Cultures. *Nutrients* **2021** Jul 30;13(8):2633.
10. Md Dom SZI, **Pipino C**, Krolewski B, O'Neil K, Satake E and Krolewski AS. "Effect of TNF $\alpha$  Stimulation on Expression of Kidney Risk Inflammatory Proteins in Human Umbilical Vein Endothelial Cells Cultured in Hyperglycemia Conditions". *Scientific Reports* **2021** May.

11. Satake E, Saulnier P-J, Kobayashi H, Gupta MK, Looker HC, Wilson JM, Md Dom SZL, Ihara K, O'Neil K, Krolewski B, **Pipino C.**, Krolewski AS. "Comprehensive search for novel circulating miRNAs and axon guidance pathway proteins associated with risk of end stage kidney disease in diabetes". *JASN* **2021** May.
12. Palmerini C, Piscitani L, Bologna G, Riganti C, Lanuti P, Mandatori D, Di Liberato L, Di Fulvio G, Sirolli V, Renda G, **Pipino C.**, Marchisio M, Bonomini M, Pandolfi A, Di Pietro N. "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.* **2021** Mar 17;22(6):3049. doi: 10.3390/ijms22063049.
13. 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* **2021**, 13, 4.
14. Di Pietrantonio N, Palmerini C, **Pipino C.**, Baldassarre MPA, Bologna G, Mohn A, Giannini C, Lanuti P, Chiarelli F, Pandolfi A, Di Pietro N. "Plasma from obese children increases monocyte-endothelial adhesion and affects intracellular insulin signaling in cultured endothelial cells: Potential role of mTORC1-S6K1". *Biochim Biophys Acta Mol Basis Dis.* **2021** Apr 1;1867(4):166076.
15. Di Pietro N, Baldassarre MPA, Cichelli A, Pandolfi A, Formoso G, **Pipino C.** "Role of Polyphenols and Carotenoids in Endothelial Dysfunction: An Overview from Classic to Innovative Biomarkers". *Oxid Med Cell Longev.* **2020** Oct 19; 2020:6381380. doi: 10.1155/2020/6381380. eCollection 2020.
16. **Pipino C.**, Shah H, Prudente S, Di Pietro N, Zeng L, Park K, Trischitta V, Pennathur S, Pandolfi A, Doria A. "Association of the 1q25 Diabetes-Specific Coronary Heart Disease Locus with Alterations of the  $\gamma$ -Glutamyl Cycle and Increased Methylglyoxal Levels in Endothelial Cells". *Diabetes.* 2020 Oct;69(10):2206-2216. doi: 10.2337/db20-0475. Epub **2020** Jul 10.
17. Formoso G, **Pipino C.**, Baldassarre MPA, Del Boccio P, Zucchelli M, D'Alessandro N, Tonucci L, Cichelli A, Pandolfi A, Di Pietro N. "An Italian innovative small-scale approach to promote the conscious consumption of healthy food". *Applied Sciences.* **2020**, 10(16), 5678.
18. Mandatori D, **Pipino C.**, Di Tomo P, Schiavone V, Ranieri A, Pantalone S, Di Silvestre S, Di Pietrantonio N, Ucci M, Palmerini C, Failli P, Di Pietro N, Pandolfi A. "Osteogenic transdifferentiation of vascular smooth muscle cells isolated from spontaneously hypertensive rats and potential menaquinone-4 inhibiting effect". *J Cell Physiol.* **2019** Nov;234(11):19761-19773. doi: 10.1002/jcp.28576. Epub 2019 Apr 1. PMID: 30937905.
19. Ucci M, Di Tomo P, Tritschler F, Cordone VGP, Lanuti P, Bologna G, Di Silvestre S, Di Pietro N, **Pipino C.**, Mandatori D, Formoso G and Pandolfi A. "Anti-inflammatory role of carotenoids in endothelial cells derived from umbilical cord of women affected by gestational diabetes mellitus". *Oxid Med Cell Longev.* **2019** Jan 30; 2019:8184656. doi: 10.1155/2019/8184656. eCollection 2019. PMID: 30918580.
20. Mandatori D, Penolazzi L, **Pipino C.**, Di Tomo P, Di Silvestre S, Di Pietro N, Trevisani S, Angelozzi M, Ucci M, Piva R, Pandolfi A. "Menaquinone-4 enhances osteogenic potential of human Amniotic Fluid Mesenchymal Stem Cells cultured in 2D and 3D dynamic culture system". *J Tissue Eng Regen Med.* **2018** Feb;12(2):447-459. doi: 10.1002/term.2471. Epub 2017 Aug 31. PMID: 28508565.
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2. Cappellacci I, Stelling Férez J, Di Pietrantonio N, Di Tomo P, Nicolás FJ, Pandolfi A, **Pipino C**. *Potenziale ruolo dell'acido oleanolico nella prevenzione delle ulcere del piede diabetico*. **Società Italiana Diabetologia (SID)**, 26-29 October 2022, Rimini.
3. **Pipino C**, Shah H, Di Tomo P, Formoso G, Di Pietro N, Pandolfi A, Doria A. *The 1q25 T2D-specific cardiovascular locus is associated with Y-glutamyl cycle and glyoxalase system alterations in endothelial cells: A metabolomics study*. **Spring meeting Young Researchers**, online conference, 18 June 2020.
4. **Pipino C**, Shah H, Di Tomo P, Formoso G, Di Pietro N, Pandolfi A, Doria A. *Locus 1q25 associato a rischio coronarico nel T2D: studio dei meccanismi metabolici intracellulari*. 28° Congresso Nazionale SID, 2-5 December 2020. Virtual edition. **Publ. Il Diabete, (Suppl.1), December 2020. (Poster presentation)**
5. **Pipino C**, Bernabé-García A, Di Tomo P, Stelling Ferez J, Mandatori D, Pelusi L, Nicolás FJ, Pandolfi A. *Potenziale ruolo della membrana amniotica nei meccanismi di vasculogenesi nel piede diabetico*. 28° Congresso Nazionale SID, 2-5 December 2020. Virtual edition. **Publ. Il Diabete, (Suppl.1), December 2020. (Poster presentation)**
6. Di Tomo P, Alessio N, Cordone V, Pietrangelo L, Lanuti P, Santini SJ, **Pipino C**, Baldassarre MPA, Galderisi U, Pandolfi A. *Senescenza precoce dell'endotelio: un meccanismo alla base della disfunzione endoteliale nel diabete*. 28° Congresso Nazionale SID, 2-5 December 2020. Edizione virtuale. **Publ. Il Diabete, (Suppl.1), December 2020. (Poster presentation)**
7. Mandatori D, Di Tomo P, Casamassima C, Palmerini C, Bologna G, Simeone P, Formoso G, Di Pietro N, Pandolfi A, **Pipino C**. *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*. **Publ. Abstract book X Annual Meeting of Stem Cell Research Italy (SCR Italy) Napoli, 5-7 June 2019. (Poster presentation)**
8. Mandatori D, **Pipino C**, Di Tomo P, Schiavone V, Ranieri A, Pantalone S, Di Silvestre S, Di Pietrantonio N, Ucci M, Palmerini C, Failli P, Di Pietro N, Pandolfi A. *Potential role of menaquinone-4 in osteogenic trans-differentiation of vascular smooth muscle cells isolated from Spontaneously Hypertensive Rats*. **4th Spring meeting dei Nazionale Gruppi giovani ricercatori di SIIA, SISA e SIMI**. "Novità e updates sulla prevenzione e cura della malattia cardiovascolare". Rimini, 28 February – 2 March 2019.
9. Mandatori D, Penolazzi L, **Pipino C**, Di Tomo P, Di Pietro N, Di Pietrantonio N, Palmerini C, Piva R, Pandolfi A. *The Role of Vitamin K2 in Bone regeneration: from bench to bed side*. Journal of Regenerative Medicine. **Meeting Stem Cell Research Italy 21-23 June 2018**. Milan, Italy.

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