

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 18, Citations 834 (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/BIOS-10/A Cellular and 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).
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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

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

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

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

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"

Funded 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.

Participation in Funded Projects

- 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

2024-2025: Teaching assignment for the **Course in Techniques of Cardiovascular Pathophysiology and Cardiovascular Perfusion**, with a teaching role in "Applied Biology" (SSD: BIOS-10/A, 2 CFU/ 20 hours).

2024-2025: Teaching assignment for the **Course in Physiotherapy**, with a teaching role in "Applied Biology" (SSD: BIOS-10/A, 2 CFU/ 20 hours).

2024-2025: Teaching assignment for the **Course in Occupational Therapy**, with a teaching role in "Biology of Cellular Degeneration Mechanisms" (SSD: BIOS-10/A, 2 CFU/ 20 hours).

2024-2025: Teaching assignment for seminar activities in the 2nd year (2 CFU) and 3rd year (2 CFU), 2nd semester of the **Course in Biomedical Laboratory Techniques** (SSD: BIOS-10/A, 2 CFU/ 20 hours).

2024-2025: Teaching assignment for the **PhD program in Biomolecular and Pharmaceutical Sciences** (40 cycle) at G. d'Annunzio University of Chieti-Pescara. "Role of Scientific Research in Understanding the Biomolecular Basis of Human Nutrition" (SSD BIOS-10/A, 8 hours).

2023-2024: Teaching assignment for the **Course in Techniques of Cardiovascular Pathophysiology and Cardiovascular Perfusion**, with a teaching role in "Applied Biology" (SSD: BIOS-10/A, 2 CFU/ 20 hours).

2023-2024: Teaching assignment for the **Course in Physiotherapy**, with a teaching role in "Applied Biology" (SSD: BIOS-10/A, 2 CFU/ 20 hours).

2023-2024: Teaching assignment for the **Course in Occupational Therapy**, with a teaching role in "Biology of Cellular Degeneration Mechanisms" (SSD: BIOS-10/A, 2 CFU/ 20 hours).

2023-2024: Teaching assignment for seminar activities in the 2nd year (2 CFU) and 3rd year (2 CFU), 2nd semester of the **Course in Biomedical Laboratory Techniques** (SSD: BIOS-10/A, 2 CFU/ 20 hours).

2023-2024: Teaching assignment for the **PhD program in Biomolecular and Pharmaceutical Sciences** (39th and 38th cycles) at G. d'Annunzio University of Chieti-Pescara. "Role of Scientific Research in Understanding the Biomolecular Basis of Human Nutrition" (SSD BIOS-10/A, 8 hours).

2023-2024: Teaching assignment at the **School of Specialization in Oral Surgery, 2nd year.** G. d'Annunzio University of Chieti-Pescara (1 CFU = 12.5 hours).

2022-2023: Teaching assignment for the **PhD program in Biomolecular and Pharmaceutical Sciences** (36th and 37th cycles) at G. d'Annunzio University of Chieti-Pescara. "Role of Scientific Research in Understanding the Biomolecular Basis of Human Nutrition" (SSD BIOS-10/A, 4 hours).

2022-2023: Teaching assignment at the **School of Specialization in Oral Surgery, 2nd year**. G. d'Annunzio University of Chieti-Pescara (1 CFU = 12.5 hours).

2021-2022: Teaching assignment for the **PhD program in Biomolecular and Pharmaceutical Sciences** (34th and 35th cycles) at G. d'Annunzio University of Chieti-Pescara. "Role of Scientific Research in Understanding the Biomolecular Basis of Human Nutrition" (SSD BIOS-10/A, 4 hours).

2021-2022: Teaching assignment at the **School of Specialization in Oral Surgery, 2nd year**. G. d'Annunzio University of Chieti-Pescara (1 CFU = 12.5 hours).

2021-2022/2020-2021/2019-2020: Teaching assignment for the **Dietetics Course, 2nd year**, module in FOOD SCIENCES AND TECHNOLOGIES (SSD AGR/15, 2 CFU = 20 hours), G. d'Annunzio University of Chieti-Pescara.

2019-2020: Supplementary teaching for the master's degree in food science and health (6 hours). "Mediterranean Model of Nutrition and Health: Focus on Bioactive Compounds and Cellular Models." School of Medicine, G. d'Annunzio University, Chieti.

2015-2018: Supplementary teaching (Cultura della materia) in the discipline "Scientific Research Methodology" (SSD MED/46) for the **Biomedical Laboratory Techniques Course**, G. d'Annunzio University, Chieti. "Stem Cells and Regenerative Medicine."

Teaching activities at international and foreign universities

2024-2025: Teaching assignment at **Unicamillus Rome** (1 CFU, 6 hours) in the elective course "Mediterranean Model of Nutrition and Health: Focus on Omics Sciences" (SSD BIOS-10/A), master's degree in human nutrition, 1st Year.

2023-2024: Teaching assignment at **Unicamillus Rome** (3 CFU, 30 hours) in the course "Cell Biology and Applied Biology" (SSD BIOS-10/A), master's degree in Dentistry, 1st Year.

2023-2024: Teaching assignment at **Unicamillus Rome** (1 CFU, 6 hours) in the elective course "Mediterranean Model of Nutrition and Health: Focus on Omics Sciences" (SSD BIOS-10/A), master's degree in human nutrition, 1st Year.

2022-2023: Teaching assignment at **Joslin Diabetes Center, Harvard Medical School, Boston, USA** (16 hours) in the course "Integrative Molecular Approaches for Studying Cardiovascular Complications of Diabetes: Focus on Omics Sciences" (SSD BIOS-10/A), Erasmus Mobility Program for Teaching 2022/23.

2022-2023: Teaching assignment at **Unicamillus Rome** (1 CFU) in the elective course "Mediterranean Model of Nutrition and Health: Focus on Omics Sciences" (SSD BIOS-10/A), master's degree in human nutrition, 1st Year.

2021-2022: Teaching assignment at **Ludwig Boltzmann Institute for Traumatology Vienna** (16 hours) in the course "Tissue Engineering and Regenerative Medicine" (SSD BIOS-10/A), University of Vienna, Austria. Erasmus Mobility Program for Teaching 2021/22.

2021-2022: Teaching assignment at **Unicamillus Rome** (1 CFU) in the elective course "Mediterranean Model of Nutrition and Health: Focus on Innovative Cellular Models" (SSD BIOS-10/A), master's degree in human nutrition, 1st Year.

2022-2023: Teaching assignment at **Unicamillus Rome** (1 CFU) in the elective course "Mediterranean Model of Nutrition and Health: Focus on Omics Sciences" (SSD BIOS-10/A), master's degree in human nutrition, 1st Year.

Research Supervisory and Training Responsibilities

2023-2024 - Ongoing: Thesis advisor for 30 master's students in Human Nutrition and co-advisor for 16 students' theses (Unicamillus Rome).

2024: Internship tutor for 25 students in the Biomedical Laboratory Techniques Bachelor's program, G. d'Annunzio University of Chieti-Pescara.

2023: Internship tutor for 16 students in the Biomedical Laboratory Techniques Bachelor's program, G. d'Annunzio University of Chieti-Pescara.

2022: Thesis advisor and internship tutor for Riccardo Almonti, Master's thesis in Dietetics, G. d'Annunzio University of Chieti-Pescara. Thesis title: "Antioxidants from Agro-Food Waste: Implications for Physical Activity and Healthy Aging."

2022: Tutor for Javier Stelling Ferez, Visiting PhD student, 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: human umbilical cord vein cells (HUVEC) and gestational diabetes HUVEC."

2022: Supervisor of Bianca Fede (University of Brazil) under the SISM (Italian Medical Students Secretary) exchange program for research (1 month). G. d'Annunzio University of Chieti-Pescara.

2022: Supervisor of Ian Inestroza (University of Honduras) under the SISM (Italian Medical Students Secretary) exchange program for research (1 month). G. d'Annunzio University of Chieti-Pescara.

2021: Tutor of Ilaria Cappellacci, post-graduate scholarship funded 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 of Tor Vergata, Rome) under the SISM (Italian Medical Students Secretary) exchange program 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 of Chieti-Pescara.

2021: Supervisor of Adrián Alejandro Moreno Mares (University of Mexico) under the SISM (Italian Medical Students Secretary) exchange program for research (1 month). G. d'Annunzio University of Chieti-Pescara.

2020: Co-advisor for Ilaria Cappellacci, master's thesis in English for the Medical Biotechnologies course, University of Padova. Thesis title: "Association of Human Amniotic Membrane and Endothelial Cells: A Novel In Vitro System to Study Wound Healing Mechanisms in Diabetic Foot Ulcer" (Academic Year 2019/2020).

2020: Co-advisor for Silvia Pappadà, bachelor's thesis in Biomedical Laboratory Techniques. Thesis title: "Amniotic Membrane and Human Endothelial Cell Cultures: An Innovative Model for Studying Wound Healing Mechanisms in Diabetic Foot Ulcers" (Academic Year 2019/2020). G. d'Annunzio University of Chieti-Pescara.

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

2015: Co-advisor for Alessandra Preziuso, bachelor's 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 Zootechnical Field" (Academic Year 2015/2016). G. d'Annunzio University of Chieti-Pescara.

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

Academic role

2007: Tutor for Analytical Chemistry with support for teaching activities. Faculty of Pharmacy, bachelor's degree in chemistry and Pharmaceutical Technologies (1st Year, Academic Year 2007/2008). G. d'Annunzio University of Chieti-Pescara.

2024 - Ongoing: Member of the Faculty Board for the PhD Program in BIOMOLECULAR AND PHARMACEUTICAL SCIENCES (40th cycle), G. d'Annunzio University of Chieti-Pescara.

2024 - Ongoing: Member of the Curriculum Committee for the Physiotherapy Course, G. d'Annunzio University of Chieti-Pescara.

2023 - Ongoing: Member of the Faculty Board for the PhD Program in BIOMOLECULAR AND PHARMACEUTICAL SCIENCES (39th cycle), G. d'Annunzio University of Chieti-Pescara.

2020 - Ongoing: Member of the "Third Mission" committee, Department of Medical, Oral and Biotechnological Sciences, University G. d'Annunzio, Chieti.

Patent

TITLE: "Isolator for Cultures of Cells Derived from Perinatal Tissue and Method for Isolating at Least One Type of Cell from Perinatal Tissue"

Number: 102023000007497 by COMECER S.P.A., an Italian company headquartered at VIA MAESTRI DEL LAVORO 90, 48014 CASTEL BOLOGNESE (RA).

Inventors: PANDOLFI Assunta, SANTALUCIA Manuela, DI TOMO Pamela, MANDATORI Domitilla, **PIPINO Caterina**, DI PIETRO Natalia, DI PIETRANTONIO Nadia, VOLTA Riccardo, BRUNETTI Alessandro, GALASSI Filippo.

Deposit Date: 18.04.2023

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 at Courses and Conferences and Chair

3 March 2023 "Basic research: omics sciences". DIADEMY- Master Academy in Diabetes for endocrinologists.

23-24-25 September 2020 "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.

14 June 2020 "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.

10-12 June 2015 "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.

23 November 2015 "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.

28 March 2015 "Stem cells and prevention: a possible combination?" Continuing Medical Education course, Italian hygiene society (SITI Abruzzo - Molise), University "G. d'Annunzio" Chieti-Pescara, Italy.

9 October 2014 "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.

25-26 May 2017: Chair Session "Stem Cell application: from basic to applied research" VIII National Conference SCR Italy, Chieti.

21-23 June 2016: Chair Session "Stem Cell and Disease" VII National Conference SCR Italy, Bologna.

Awards, fellowships, and
appointments received for
research activities

2023: StemNet Next Generation Contest Award. StemNet Congress, Brescia, October 18-20, 2023.

August 2019-December 2022 Researcher position, Programma Operativo Nazionale (PON) Ricerca e Innovazione 2014-2020 - Fondo Sociale Europeo, Azione I.2 "AIM: Attraction and International Mobility" – D.D. n 407 del 27/02/2018.

4-25 November 2019: Short Term Scientific Mission supported by COST action in the Laboratory of Regeneración, Oncología Molecular y TGF β of the Institute of Biomedical Research of Murcia (IMIB_Arixaca), Murcia, Spain.

July 2016-July 2019: Fellowship at Harvard Medical school, Joslin Diabetes center, Boston, USA.

2013-2016: Research Fellow position (SSD 06/N1), Department of Medical, Oral and Biotechnological Sciences, University G. d'Annunzio Chieti-Pescara.

2011: 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.

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 Ca²⁺/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^a 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)

46

Peer-Reviewed Publications (last 10 years)

1. Baldassarre MPA, Paolucci T, Park K, **Pipino C**. Editorial: Preventing cardiovascular complications of type 2 diabetes. *Front Endocrinol*. **2024** Aug 9;15:1473603. doi: 10.3389/fendo.2024.1473603.
2. Olechno E, Puścion-Jakubik A, Socha K, **Pipino C**, Zujko ME. Consumption of Chokeberry Bio-Products Improves Specific Metabolic Parameters and Increases the Plasma Antioxidant Status. *Antioxidants (Basel)*. **2024** Jun 7;13(6):699. doi: 10.3390/antiox13060699.
3. Ferrero I, Piccinini F, Marrazzo P, Monti M, **Pipino C**, Banche Niclot ASG, Proto CF, Ragni E, Hass R, Stella GM, Berni P, Ivanovska A, Mareschi K. State of the Art and New Trends from the Second International StemNet Meeting. *Int J Mol Sci*. **2024** Feb 13;25(4):2221. doi: 10.3390/ijms25042221.
4. Stelling-Férez J, Cappellacci I, Pandolfi A, Gabaldón JA, **Pipino C**, Nicolás FJ. "Oleanolic acid rescues critical features of umbilical vein endothelial cells permanently affected by hyperglycemia." *Frontiers in Endocrinology, Section Cardiovascular Endocrinology*. Volume 14 – **2023**. DOI: 10.3389/fendo.2023.1308606.
5. Di Pietrantonio N, Cappellacci I, Mandatori D, Baldassarre MPA, Pandolfi A, **Pipino C**. Role of Epigenetics and Metabolomics in Predicting Endothelial Dysfunction in Type 2 Diabetes. *Adv Biol (Weinh)*. **2023** Sep;7(9):e2300172. doi: 10.1002/adbi.202300172. Epub 2023 Aug 24.
6. Schiavone V, Romasco T, Di Pietrantonio N, Garzoli S, Palmerini C, Di Tomo P, **Pipino C**, Mandatori D, Fioravanti R, Butturini E, Sabatino M, Baldassarre MPA, Ragno R, Pandolfi A, Di Pietro N. Essential Oils from Mediterranean Plants Inhibit In Vitro Monocyte Adhesion to Endothelial Cells from Umbilical Cords of Females with Gestational Diabetes Mellitus. *Int J Mol Sci*. **2023** Apr 13;24(8):7225. doi: 10.3390/ijms24087225.
7. 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/xxxxx>
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The undersigned, Caterina Pipino, is aware that anyone who makes false statements is punishable under the penal code and the relevant special laws, pursuant to and for the purposes of Articles 46 and 47 of Presidential Decree No. 445/2000.

Chieti, 10.09.2024

