


INFORMAZIONI PERSONALI



Assunta Pandolfi

 **Indirizzo di lavoro:** Laboratorio di Cellule Vascolari e Staminali, Dipartimento di Scienze Mediche, Orali e Biotecnologiche, Università "G. d'Annunzio" Chieti – Pescara
 Center for Advanced Studies and Technology (CAST, ex CeSI-MeT)
 via Luigi Polacchi, 11-13 (ex via Colle dell'Ara)
 66013, Chieti Scalo - Chieti (Italia)

 #39-0871-541425  #39-338-8735931

 assunta.pandolfi@unich.it

Sesso Femminile | Data di nascita 30-07-1963 | Nazionalità Italiana

POSIZIONE ACCADEMICA

Professore (SSD/BIO13), Università "G. d'Annunzio" Chieti-Pescara, Dipartimento di Scienze Mediche, Orali e Biotecnologiche (Scopus Author ID 7003926455; ORCID ID 0000-0003-4135-7631; RESEARCH ID k-4595-2016)

ISTRUZIONE E FORMAZIONE

1985-'86

Ricercatore, Istituto di Farmacologia, Università "G. d'Annunzio" CH-PE

1986-'88

Ricercatore FORMEZ, Istituto Mario Negri, Milano

1988-'92

Ricercatore (Assistano Professor), Consorzio Mario Negri Sud, Chieti

1993-'97

Docente (Professore a tempo determinato), Facoltà di Medicina, Università di Bari

1997-'02

Tecnico, Università "G. d'Annunzio" Chieti-Pescara

2002-'06

Ricercatore (SSD/BIO13), Università "G. d'Annunzio" Chieti-Pescara

2006-'07

Professore (SSD/MED46), Università "G. d'Annunzio" Chieti-Pescara

2007

PROFESSORE ASSOCIATO (SSD/MED46), Università "G. d'Annunzio" Chieti-Pescara, Dipartimento di Scienze Sperimentali e Cliniche.

2008

DIRETTORE del Laboratorio di Cellule Vascolari e Staminali, Centro Scienze dell'Invecchiamento e Medicina Traslazionale (CE.S.I.-MeT), Università "G. d'Annunzio" Chieti-Pescara.

2019

PROFESSORE di Medicina di Laboratorio (SSD/MED46), Center for Advanced Studies and Technology (CAST), ex CE.S.I.-MeT, Università "G. d'Annunzio" Chieti-Pescara, Dipartimento di Scienze Mediche, Orali e Biotecnologiche.

2021

PROFESSORE di BIOLOGIA APPLICATA (SSD/BIO13), Center for Advanced Studies and Technology (CAST), ex CE.S.I.-MeT, Università "G. d'Annunzio" Chieti-Pescara, Dipartimento di Scienze Mediche, Orali e Biotecnologiche.

H-Index: 31, 3.639 citations (23.05.2023)

ISTRUZIONE E FORMAZIONE

1981-1985	Laurea in Scienze Biologiche, Università di Perugia
1989	Specializzazione in Ricerca Farmacologica, Istituto Mario Negri, Milano
1992	Abilitazione in Biologia, Università di Perugia
1998	Dottorato di Ricerca in Fisiopatologia del Metabolismo, Università di Chieti e Roma

Periodi formativi all'estero:

1988	Imperial Cancer Research Fund, Cinemicroscopy Unit, Prof. PN Riddle, King's College, Dipartimento di Anatomia, Prof. R Brooks, Londra
1989	Columbia University, Lab. di Biologia Cellulare, Prof. R. Baserga, Wistar Institute, Center of Gerontological Research, Prof. V. J. Cristofalo Philadelphia (USA)
1989	Karolinska Institute Stockholm, Dipartimento di Biologia Cellulare Prof. Thyberg, Linköping University, Scuola di Medicina, Prof. A. Wasteson (Svezia)
1990	Università di Ginevra, Facoltà di Medicina, Dipartimento di Patologia, Prof. Gabbiani (Svizzera)

COMPETENZE PERSONALI

Madrelingua	Italiano
Lingua straniera	Inglese

ULTERIORI INFORMAZIONI

Ad Hoc Reviewer:

Acta Biochimica et Biophysica Sinica, Acta Diabetologica, Acta Physiologica, Advances in Pharmacological Sciences, Aging, Annals of Nutrition and Metabolism, Archives of Medical Research, Atherosclerosis, Thrombosis and Vascular Biology, BBA - Molecular Basis of Disease, BMC Complementary and alternative medicine, Biochimie, Biomaterials, Biomedicine and Pharmacotherapy, British Journal of Pharmacology, Cell Biochemistry and Biophysics, Cell Biology and Toxicology, Cell Proliferation, Circulation, Cardiovascular Research, European Cytokine Network, Endocrine, Expert Opinion On Therapeutic Targets, Experimental Gerontology, Free Radical Research, Genes & Nutrition, Hypertension Research, Human Genetics & Embryology Current Research, Immunopharmacology and Immunotoxicology, Int. J. Mol. Sciences, Journal of Cellular Physiology, Journal of Medicinal Foods, Journal Cellular Biochemistry, Journal of Endocrinological Investigation, Journal of Molecular and Genetic Medicine, Journal of Diabetes Research, Journal Thrombosis and Haemostasis, Journal of Tissue Engineering and Regenerative Medicine, Marine Drugs, Materials, Molecular and Cellular Biochemistry, Molecular Nutrition and Food Research, Nutrition, Metabolism & Cardiovascular Diseases, Nutrition and Diabetes, Oncotarget, Pharmaceuticals, PLoS One, PNAS, Stem Cells and Development, Scientific Reports, Vascular Pharmacology.

Membro di Editorial Board

Molecules
Review Editor on the Editorial Board of Preclinical Cell and Gene Therapy (specialty section of Frontiers in Bioengineering and Biotechnology)
Review Editor on the Editorial Board of Gastroenterology (specialty section of Frontiers in Medicine).
JSM Atherosclerosis, JSM Renal medicine
Annals of Obesity & Disorders
Annals of Atherosclerosis and Thrombosis
Annals of Stem Cell Research
Guest Editor nello Special Issue della rivista *Nutrients* intitolato "Dietary Bioactives: Their Role in the Prevention and Treatment of Cardiovascular and Metabolic Bone Diseases". ACADEMIC EDITOR PNAS (gennaio 2018)

Progetti di ricerca ministeriali

1998 Ministero Italiano della Salute, Co-investigator
1999 Ministero Italiano della Salute, Co-investigator
2000 Ministero Italiano della Salute, Co-investigator
2001-04 Ministero Italiano dell'Università e della Ricerca (Center of Excellence on Aging, CEA), Co-investigator
2002-04 Ministero Italiano dell'Università e della Ricerca (Cofin 2002), Co-investigator
2004-06 Ministero Italiano dell'Università e della Ricerca (programma PRIN), Co-investigator
2006-08 Ministero Italiano dell'Università e della Ricerca (programma PRIN), Co-investigator
2005-08 Ministero delle Politiche Agricole, Alimentari e Forestali (MIPAAF), Co-investigator
2008-10 Ministero Italiano dell'Università e della Ricerca (programma PRIN), Co-investigator
2017 POR FESR Abruzzo 2014-2020: EU (2015) 5818 del 13/08/2015; Action 1.1.4: N°39, 22.12.2017, SANI: Saper Nutrire, Principal Investigator (PI)
2019-2023 PON-MISE Sustainable Growth Funding Progetto F/180021/03/X43 N. 21 – Settore: Scienze della Vita
2023-26 MUR-PNRR, CN3: National Center for Gene Therapy and Drugs based on RNA Technology; CN_00000041 CN: "Sviluppo di terapia genica e farmaci con tecnologia a RNA", Co-investigator
2022 –in corso Governo della Spagna, Ministero della Scienza e dell'Innovazione, Call for Health Research Projects: "Scaffold di fibroina funzionalizzato con cellule perinatali per il trattamento delle ferite croniche e ulcere del piede diabetico", Co-investigator

Programmi di ricerca non ministeriali

2006-08 TELETHON, Co-investigator
2006-08 EFSD (European Foundation for the Study of Diabetes), Co-investigator
2010-12 EFSD/Servier European Research Programme on Vascular Complications of Type 2 Diabetes (European Foundation for the Study of Diabetes), Co-investigator
2012 Fondazione Italiana Fibrosi Cistica, Co-investigator
2018-2023 COST (European Cooperation in Science and Technology CA 17116) 2018-2022 International Network for Translating Research on PnD into Therapeutic Approches EU Framework Programme Horizon, Co-investigator
2022-26 COST (European Cooperation in Science and Technology/CA21108) - European Network for Skin Engineering and Modeling (NETSKINMODELS) Co-investigator

Altri programmi di ricerca

2005-2008 PeterItalia srl, Italia, "L'attività dei carotenoidi nella salute umana", PI
2006-2007 Fondazione Pescara Abruzzo, Italia, PI
2008-2012 ERA-AMGEN, USA, "Differenziazione osteoblastica di cellule staminali del liquido amniotico e R-568", PI
2007-2010 Iperboreal Pharma, Italia, PI
2010-2012 Fondazione Carichieti, Italia, "Cellule di liquido amniotico nella medicina rigenerativa: caratterizzazione, differenziamento osteogenico e neurogenico ed efficacia terapeutica in studi pre-clinici", PI
2011-13 GLOMERIA, Svizzera, "Infiammazione vascolare e dialisi peritoneale: modelli di studio in vitro", PI
2012-2014 ROCHE-DIAGNOSTICS, Italia, PI
2015-16 Fondazione Negri Sud ONLUS, Italia, PI
2014-15 IBERSAN-SANTIVERI Spagna, "Potenziale ruolo della Vitamina K2 nell'omeostasi vascolare e nell'osteogenesi", PI
2016-19 SANOFI-USA, "Alterazioni del ciclo del glutammato e della gamma-glutamyl transferasi nello sviluppo delle complicanze diabetiche", Co-investigator
2020-21 Banca d'Italia, "Studio del differenziamento osteo-cartilagineo di cellule staminali da cordone ombelicale e da midollo osseo. Ruolo delle ialuronato cross-linkato", PI

Brevetti

1. *Brevetto Italiano* n. IT1388790-B (RM2008A000177), 03/03/2008. "Anti-inflammatory composition for human and animal administration comprises Centella asiatica and lipoic acid".
2. *Brevetto Italiano* n. 02017000104529, 09/19/2017. "Ovothiol for the treatment of chronic low-grade systemic inflammation and the related pathologies".
3. *Brevetto Europeo* n n. 3684355 convalidato in Svizzera/ Liechtenstein, Germania, Spagna, Francia e Regno Unito, PCT/IB2018/057098, 17/09/2018. "Ovothiol for the treatment of chronic low-grade systemic inflammation and the related pathologies".
4. *Brevetto USA* n. 16/646716, PCT/IB2018/057098, 17/09/2018. "Ovothiol for the treatment of chronic low-grade systemic inflammation and the related pathologies".

5. *Brevetto Europeo* Application n. EP20179055.7. "New drug delivery system for ophthalmic use", 09.06.2020. (Applicant: Dompé farmaceutici S.p.a).

6. *Brevetto Italiano* n. 102023000007497, 18/04/2023. "Isolatore per colture cellulari derivate da un tessuto perinatale e metodo di isolamento di almeno una tipologia di cellule da un tessuto perinatale". (Applicant: COMECER S.p.a).

Conferenze in incontri nazionali e internazionali

- 1991** "Effects of heparins and TGFbeta on vascular Smooth muscle cells proliferation. Role of aging". Istituto Mario Negri Sud, S. Maria Imbaro, Italia
- 1996** "Cellular mechanisms of macrovascular complications of diabetes". Istituto Mario Negri Sud
- 1998** "Diabetes and fibrinolysis". Istituto Mario Negri Sud, S. Maria Imbaro, Italia
- 2001** "Role of glucose and/or insulin in the regulation of endothelial function". Istituto Mario Negri Sud, S. Maria Imbaro, Italia
- 2003** "Nitric Oxide and its implications in vascular pathophysiology". Istituto Mario Negri Sud
- 2005** "Role of Nitric Oxide in the atherosclerotic plaque formation and evolution". Simposio della Società Italiana per lo studio dell'aterosclerosi. Università G. d'Annunzio, Chieti-Pescara, Italia
- 2005** "Cellular models for the study of insulin resistance and its role in cardiovascular disease". Università Cattolica, Campobasso, Italia
- 2007** "Hyperglycemia, oxidative stress and mechanisms of atheroma development". La Sapienza, Roma, Italia
- 2008** "Nitric Oxide bioavailability and vascular homeostasis". Meeting della Società Italiana sull'Ossido Nitrico, Rimini, Italia
- 2009** "Platelet eNOS, iNOS or no NOS, that is the question". Annual Meeting of Platelet Group Study, Lanciano, Italia
- 2011** "Nitric Oxide bioavailability in the time-line of atherosclerosis". Università Cattolica Roma, Italia
- 2011** "Role of oxidative stress in the Nitric Oxide bioavailability". Meeting della Società Italiana sull'Ossido Nitrico, Rimini, Italia
- 2012** "Endoplasmic Reticulum Stress". Meeting Annuale della Società Italiana Diabete, Torino, Italia
- 2013** "Carotenoids and NO bioavailability". iNOS Meeting, Università di Verona, Italia
- 2013** "Nitric Oxide bioavailability and vascular physiopathology". Meeting Annuale della Società Italiana sull'Ossido Nitrico, Rimini, Italia
- 2014** "NO bioavailability in vascular physiopathology: focus on endothelial function and dysfunction". Università di Firenze, Italia
- 2014** "Insulin Action". Meeting Annuale della Società Italiana Diabete, Bologna, Italia
- 2015** "Nitric Oxide bioavailability in vascular physiopathology: focus on endothelial function and dysfunction". Università di Ferrara, Italia
- 2015** "Nitric Oxide bioavailability in vascular physiopathology: focus on endothelial function and dysfunction", Università dell'Aquila, Italia
- 2015** "Nitric Oxide bioavailability in vascular physiopathology: focus on endothelial function and dysfunction", Istituto Mendel, Roma, Italia
- 2015** Nutrire il Pianeta, Energia per la Vita: Modello Mediterraneo di Nutrizione e Salute. EXPO 2015, Milano, Italia
- 2015** "Cellule Staminali mesenchimali da liquido amniotico: un modello potenzialmente utile per la rigenerazione ossea". Accademia della Storia dell'Arte Sanitaria, Roma, Italia
- 2016** "Cellule staminali mesenchimali da annessi extra-embriionali: un modello potenzialmente utile per la rigenerazione ossea in ambito odontoiatrico". One Day Seminar "Stem cells and Nanodevices for oral and maxillofacial surgery". Napoli, Italia.
- 2017** "Complicanze cardiovascolari del diabete di tipo 2: basi cellulari". IRCCS NEUROMED, Pozzilli (IS)
- 2018** "Cellule staminali da annessi perinatali". COMECER srl, Castelbolognese (RA)
- 2018** "Biodiversity, natural molecules and bone health". XII Convegno Nazionale Biodiversità, Ambienti, Salute. Teramo.
- 2019** "Cellule Staminali Perinatali: candidate per un ruolo nella Medicina Rigenerativa in Ortopedia?". 104° Congresso Nazionale SIOT 2019, Società Italiana di Ortopedia e Traumatologia. Roma, Italia
- 2019** "Nuove tecnologie nella ricerca e nella pratica nutrizionale: possibile sviluppo di biomarcatori". SIPMeL – Società Italiana di Patologia Clinica e Medicina di Laboratorio. Chieti, Italia
- 2020** "Disfunzione endoteliale e diabete: modelli innovativi per lo sviluppo di biomarcatori". IRCCS NEUROMED, Pozzilli (IS)
- 2022** "Clinical Translation of Perinatal Derivatives: Where do We Stand for?", IPLASS and COST Action Joint Scientific Meeting, Brescia, Italy.

Premi e riconoscimenti

2006 ISA Prize Italian Society Atherosclerosis
2006 Siset Prize Italian Society for the Study of Homeostasis and Thrombosis
2008 SID Prize Italian Society for the Study of Diabetes
2011 SCR-Italy Prize Italian Stem Cell Research Italy

Membro in Società Scientifiche

1996-ad oggi Società Italiana di Diabetologia (SID)
2002-ad oggi Associazione Italiana Biologi e Genetisti (AIBG)
2003-ad oggi Società Italiana per lo Studio dell'Emostasi e Trombosi (Siset)
2009-2016 Società Italiana per lo Studio dell'Ossido di Azoto (iNOs), Membro esecutivo
2009-ad oggi Società Italiana per la Ricerca sulle Cellule Staminali (SCR-Italy), Membro esecutivo
2009-ad oggi Associazione per lo studio delle Cellule Staminali Chieti-Teramo (StemTeCh), Presidente
2010-2015 International Society of Nutrigenetics/Nutrigenomic (ISSN)
2017-ad oggi European Association for the Study of Diabetes (EASD)
2020-ad oggi Gruppo Italiano Staminali Mesenchimali (GISM)
2022-ad oggi International Placenta Stem Cell Society (IPLASS)

Responsabilità istituzionali

2012-16 Membro della giunta del Dipartimento di Scienze Sperimentali e Cliniche, Università "G. d'Annunzio" Chieti-Pescara.
2013- ad oggi Componente del Collegio dei docenti del Dottorato di Ricerca: "Scienze Biomolecolari e Farmaceutiche", Ateneo proponente: Università degli Studi "G. d'Annunzio" Chieti-Pescara.
2015- ad oggi Membro del Comitato Tecnico Scientifico del Polo Chimico Farmaceutico CAPITANK.
2017- ad oggi Delega Rettorale quale Referente per l'Università "G. d'Annunzio" Chieti-Pescara del Programma di Ricerca Europeo (<http://prima-med.org>).
2019-21 Nomina del Nucleo Tecnico Operativo (NTO) e Referenti delle macroaree nel CAST.
2019- ad oggi Referente MIUR dell'Ateneo "G. d'Annunzio" Chieti-Pescara per il PNR (Programma Nazionale per la Ricerca) e per Horizon Europe 2021-27; Tema: Bioeconomy, Food and Blue Growth.
2019- ad oggi Membro della Commissione di Ricerca e Valutazione del Dipartimento di Scienze Mediche, Orali e Biotecnologiche, Università "G. d'Annunzio" Chieti-Pescara.
2021-ad oggi Membro eletto nella Giunta del Dipartimento di Scienze Mediche, Orali e Biotecnologiche, Università "G. d'Annunzio" Chieti-Pescara.
2021-ad oggi Delega Referente di Ateneo per PNNR per il Centro Nazionale su terapie genetiche e vaccini RNA.
2021-2027 Referente MIUR dell'Ateneo "G. d'Annunzio Chieti-Pescara" per il PNR (Programma Nazionale per la Ricerca).
2023-2026 Componente della Giunta del Centro di Studi e Tecnologie Avanzate (CAST) per il triennio 2023-2026.
2023 Coordinatore Collegio del Dottorato di Ricerca: "Scienze Biomolecolari e Farmaceutiche", Ateneo proponente: Università degli Studi "G. d'Annunzio" Chieti-Pescara.

Publicazioni Peer-Reviewed (numero totale)

115

Capitoli di libri

- Pandolfi A**, Hess S, Giandomenico V, D'Orazio A, Milani MR, Marchi E, Donati MB and Poggi A. Lack of inhibitory effect of heparin on in vitro proliferation of aortic smooth muscle cells from aged rats. Zilla P., Fasol R., Callow A (Eds): Applied Cardiovascular Biology 1989 Int. Soc. Appl. Cardiovasc. Biol. Basel, Karger, 1990, Vol.1,181-188.
- Di Castelnuovo A, Di Pietro N, Sirolli V, Bonomini M, **Pandolfi A**. Earthquakes and impact on prevalence of metabolic syndrome. Handbook Public Health in Natural Disasters, Eds: RR Watson, JA Tabor, JE Ahiri, VR Preedy 2015; Chapter 24,295-207.
- Pandolfi A**. Biology of Carotenoids and their potential cardiovascular health benefits. Masayoshi Yamaguchi Editor: Carotenoids. Food Sources, Production and Health Benefits". Nova Biomedical Science Publishers 2013, chapter XIV; 271-295.
- 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.; Prime Archives in Nutrition, Vide Leaf, 2021, Eloy A Zepeda-Carrillo editor, 1-32.
- Petrini M, Pierfelice VT, D'Amico E, Di Pietro N, **Pandolfi A**, D'Arcangelo C, De Angelis F, Mandatori D, Schiavone V, Piattelli A, Iezzi G. Influence of Nano, Micro, and Macro Topography of Dental Implant Surfaces on Human Gingival Fibroblasts. Saeed Tarighi, editor, Prime Archives in Molecular Sciences:3rd Edition, Hyderabad, India: Vide Leaf. 2021.

Le 10 più importanti pubblicazioni (tutta la carriera)

6. Pipino C, Cappellacci I, Pelusi L, Di Pietrantonio N, Mandatori D, Di Pietro N, **Pandolfi A**. Amniotic Fluid Mesenchymal Stromal Cells as Innovative and Advantageous Resource for Bone Regeneration; New Horizons in Medicine and Medical Research Vol. 4, 2022, 1-20.
1. Morieri ML, Shah HS, Sjaarda J, Lenzini PA, Campbell H, Motsinger-Reif AA, Gao H, Lovato L, Prudente S, **Pandolfi A**, Pezzolesi MG, Sigal RJ, Paré G, Marcovina SM, Rotroff DM, Patomo E, Mercuri L, Trischitta V, Chew EY, Kraft P, Buse JB, Wagner MJ, Cresci S, Gerstein HC, Ginsberg HN, Mychaleckyj JC, Doria A. A PPARA Polymorphism Influences the Cardiovascular Benefit of Fenofibrate in Type 2 Diabetes: Findings from ACCORD Lipid. *Diabetes*. 2020 Jan 23. pii: db190973. doi: 10.2337/db19-0973.
2. 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, **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.
3. Qi L., Qi Q., Prudente S., Mendonca C., Andreozzi F., Di Pietro N., Sturma M., Novelli V., Mannino G.C., Formoso G., Gervino E.V., Hauser T.H., Muehlschlegel J.D., Niewczas M.A., Krolewski A.S., Biolo G., **Pandolfi A.**, Rimm E., Sesti G., Trischitta V., Hu F., Doria A. Association Between a Genetic Variant Related to Glutamic Acid Metabolism and Coronary Heart Disease in Type 2 Diabetes. *JAMA*. 2013 Aug 28;310(8):821-8.
4. Prudente S., Sesti G., **Pandolfi A.**, Andreozzi F., Consoli A., Trischitta V. The mammalian tribbles homolog TRIB3, glucose homeostasis, and cardiovascular diseases. *Endocr Rev*. 2012 Aug;33(4):526-46.
5. Di Tomo P., Canali R., Ciavardelli D., Di Silvestre S., De Marco A., Giardinelli A., Pipino C., Di Pietro N., Virgili F., **Pandolfi A.** β -Carotene and lycopene affect endothelial response to TNF- α reducing nitro-oxidative stress and interaction with monocytes. *Mol Nutr Food Res*. 2012; 56:217-27.
6. **Pandolfi A.**, Solini A., Pellegrini G., Mincione G., Di Silvestre S., Chiozzi P., Giardinelli A., Di Marcantonio M.C., Piccirelli A., Capani F., Consoli A. Selective insulin resistance affecting nitric oxide release but not plasminogen activator inhibitor-1 synthesis in fibroblasts from insulin-resistant individuals. *Arterioscler Thromb Vasc Biol*. 2005 Nov; 25(11):2392-7.
7. Federici M., **Pandolfi A.**, De Filippis E.A., Pellegrini G., Menghini R., Lauro D., Cardellini M., Romano M., Sesti G., Lauro R., Consoli A. G972R IRS-1 variant impairs insulin regulation of endothelial nitric oxide synthase in cultured human endothelial cells. *Circulation*. 2004 Jan 27;109(3):399-405.
8. Zauli G., **Pandolfi A.**, Gonelli A., Di Pietro R., Guarnieri S., Ciabattini G., Rana R., Vitale M., Secchiero P. Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) sequentially upregulates nitric oxide and prostanoid production in primary human endothelial cells. *Circ Res*. 2003 Apr 18;92(7):732-40.
9. **Pandolfi A.**, Cetrullo D., Polishuck R., Alberta M.M., Calafiore A., Pellegrini G., Vitacolonna E., Capani F., Consoli A. Plasminogen activator inhibitor type 1 is increased in the arterial wall of type II diabetic subjects. *Arterioscler Thromb Vasc Biol*. 2001 Aug;21(8):1378-82.
10. **Pandolfi A.**, Iacoviello L., Capani F., Vitacolonna E., Donati M.B., Consoli A. Glucose and insulin independently reduce the fibrinolytic potential of human vascular smooth muscle cells in culture. *Diabetologia*. 1996 Dec;39(12):1425-31.

Publicazioni Peer-Reviewed

1. 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.
2. Lambertini E, Penolazzi L, Notarangelo MP, Fiorito S, Epifano F, **Pandolfi A**, Piva R, Pro-differentiating compounds for human intervertebral disc cells are present in Violina pumpkin leaf extracts; *Int. J. Mol. Med*. 2023 May;51(5):39. doi: 10.3892/ijmm.2023.5242. Epub 2023 Apr 7.
3. Pelusi L, Mandatori D, Mastropasqua L, Agnifili L, Allegretti M, Nubile M, **Pandolfi A**, Innovation in the Development of Synthetic and Natural Ocular Drug Delivery Systems for Eye Diseases Treatment: Focusing on Drug-Loaded Ocular Inserts, Contacts, and Intraocular Lenses; *Pharmaceutics*, 2023 Feb 13;15(2):625. doi: 10.3390/pharmaceutics15020625
4. Pagotto S, Simeone P, Brocco D, Catitti G, De Bellis D, Vespa S, Di Pietro N, Marinelli L, Di Stefano A, Veschi S, De Lellis L, Verginelli F, Kaitsas F, Iezzi M, **Pandolfi A**, Visonè R, Tinari N, Caruana I, Di Ianni M, Cama A, Lanuti P, Fiorito R, CAR-T-Derived Extracellular Vesicles: A Promising Development of CAR-T Anti-Tumor Therapy; *Cancers*; 2023, 15, 1052. doi:10.3390/cancers15041052.
5. Di Pietrantonio N, Di Tomo P, Mandatori D, Formoso G, **Pandolfi A**. Diabetes and Its Cardiovascular Complications: Potential Role of the Acetyltransferase p300; *Cells*; 2023 Jan 28;12(3):431. doi: 10.3390/cells12030431.

6. Efthymakis K, Bologna G, Simeone P, Pierdomenico L, Catitti G, Vespa S, Milano A, De Bellis D, Laterza F, **Pandolfi A**, Pipino C, Sallese M, Marchisio M, Miscia S, Neri M, Lanuti P. Circulating Extracellular Vesicles Are Increased in Newly Diagnosed Celiac Disease Patients, *Nutrients*; 2022 Dec 23;15(1):71. doi: 10.3390/nu15010071.
7. Pierfelice TV, D'Amico E, Petrini M, **Pandolfi A**, D'Arcangelo C, Di Pietro N, Piattelli A, Iezzi G, The Effects of 5% 5-Aminolevulinic Acid Gel and Red Light (ALAD-PDT) on Human Fibroblasts and Osteoblasts, *Gels*; 2022 Aug 8;8(8):491. doi: 10.3390/gels8080491.
8. 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/ β -Catenin Pathway Mediate the Effect of the Coumarin Derivative Umbelliferon on Bone Mineralization, *Nutrients*; 2022 Aug 5;14(15):3209. doi: 10.3390/nu14153209.
9. Flores AI, Pipino C, Jerman UD, Liarte S, Gindraux F, Kreft ME, Nicolas FJ, **Pandolfi A**, Tratnjek L, Giebel B, Pozzobon M, Silini RA, Parolini O, Eissner G, Lang-Olip, 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. eCollection 2022.
10. Pipino C, Bernabé-García A, Cappellacci I, Stelling-Ferez J, Di Tomo P, Santalucia M, Navalon C, **Pandolfi A**, Nicolas FJ. Effect of the Human Amniotic Membrane on the 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.854845. eCollection 2022.
11. Mastropasqua L, Nubile M, Acerra G, Detta N, Pelusi L, Lanzini M, Mattioli S, Santalucia M, Pietrangelo L, Allegretti M, Dua HS, Metha JS, **Pandolfi A**, Mandatori D. Bioengineered Human Stromal Lenticule for Recombinant Human Nerve Growth Factor Release: A Potential Biocompatible Ocular Drug Delivery System, *Front. Bioeng. Biotechnol.*, 2022, Jun 23;10:887414. doi: 10.3389/fbioe.2022.887414. eCollection 2022.
12. Mandatori D, **Pandolfi A**. Dietary Bioactives: Their Role in the Prevention and Treatment of Cardiovascular and Metabolic Bone Diseases, *Nutrients*; 2022, Jun. 14; 14(12), 2459; doi: 10.3390/nu14122459.
13. Pelusi L, Schiavone V, Bologna G, Cerritelli P, Lezza D, Pantalone A, Santalucia M, Buda R, **Pandolfi A**, Mandatori D. 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, *J Orthop Res Ther*; 2021 Dec 31; Vol. 6:1209, doi: 10.29011/2575-8241.001209.
14. 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. eCollection 2021.
15. Petrini M, Pierfelice VT, D'Amico E, Di Pietro N, **Pandolfi A**, D'Arcangelo C, De Angelis F, Mandatori D, Schiavone V, Piattelli A, Iezzi G. Influence of Nano, Micro, and Macro Topography of Dental Implant Surfaces on Human Gingival Fibroblasts, *Int J Mol Sci*; 2021, Sep 13;22(18):9871. doi: 10.3390/ijms22189871.
16. De Angelis F, Mandatori D, Schiavone V, Melito FP, Valentinuzzi V, 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*, 2021, Sep 11;14(18):5225. doi:10.3390/ma14185225.
17. Mandatori D, Penolazzi L, Pelusi L, Lambertini L, 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. doi: 10.3390/nu13082823.
18. 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. doi: 10.3390/nu13082633.
19. Baldassarre MPA, Di Tomo P, Centorame G, **Pandolfi A**, Di Pietro N, Consoli A, Formoso G. Myonisolitol Reduces Inflammation and Oxidative Stress in Human Endothelial Cells Exposed in Vivo to Chronic Hyperglycemia, *Nutrients*; 2021 Jun 27;13(7): 2210. doi:10.3390/nu13072210.
20. Di Tomo P, Alessio N, Falone S, Pietrangelo L, Lanuti P, Cordone V, Santini JS, Di Pietrantonio N, Marchisio M, Protasi F, Di Pietro N, Formoso G, Amicarelli F, Galderisi U, **Pandolfi A**. Endothelial cells from umbilical cord of women affected by gestational diabetes: A suitable in vitro model to study mechanisms of early vascular senescence in diabetes. *FASEB J*, 2021, Jun. 35(6): e21662. doi:10.1096/fj.202002072RR.
21. 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 Apr 7;13(4):1222. doi: 10.3390/nu13041222.
22. 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.
23. Lambertini E, Penolazzi L, **Pandolfi A**, Mandatori D, Sollazzo V, Piva R, Human osteoclasts/osteoblasts 3 D Dynamic co-culture system to study the beneficial effects of glucosamine on bone microenvironment, *Int J Mol Med*; 2021 Apr; 47(4): 1-9. doi: 10.3892/ijmm.2021.4890.
24. 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 Jan 7:166076 doi: 10.1016/j.bbadis.2021.166076.
25. Silini AR, Di Pietro R, Lang-Olip I, Alviano F, Banerjee A, Basile M, Borutinskaite V, Eissner G, Gellhaus A, Giebel B, Huang YC, Janev A, Kreft ME, Kupper N, Abadía-Molina AC, Olivares EG, **Pandolfi A**, Papait A, Pozzobon M, Ruiz-Ruiz C, Soritau O, Susman S, Szukiewicz D, Weidinger A, Wolbank S, Huppertz B, Parolini O. Perinatal Derivatives: Where Do We Stand? A Roadmap of the Human Placenta and Consensus for Tissue and Cell Nomenclature. *Front Bioeng Biotechnol.*; 2020 Dec 17; 8:610544. doi: 10.3389/fbioe.2020.610544.

- PMID: 33392174; PMCID: PMC7773933.
26. 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.
 27. 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 γ -Glutamyl Cycle and Increased Methylglyoxal Levels in Endothelial Cells. *Diabetes*; 2020 Jul 10;db200475. doi: 10.2337/db20-0475. PMID: 32651240.
 28. Morieri ML, Shah HS, Sjaarda J, Lenzini PA, Campbell H, Motsinger-Reif AA, Gao H, Lovato L, Prudente S, **Pandolfi A**, Pezzolesi MG, Sigal RJ, Paré G, Marcovina SM, Rotroff DM, Paterno E, Mercuri L, Trischitta V, Chew EY, Kraft P, Buse JB, Wagner MJ, Cresci S, Gerstein HC, Ginsberg HN, Mychaleckyj JC, Doria A. PPARA Polymorphism Influences the Cardiovascular Benefit of Fenofibrate in Type 2 Diabetes: Findings From ACCORD Lipid. *Diabetes*; 2020 Jan 23. pii: db190973. doi: 10.2337/db19-0973.
 29. 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 and **Pandolfi A**. Osteogenic transdifferentiation of vascular smooth muscle cells isolated from spontaneously hypertensive rats and potential menaquinone-4 inhibiting effect. *J Cell Physiol*; 2019;1–13. doi: 10.1002/jcp.28576.
 30. 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, 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.
 31. Di Pietro N, Potenza MA, Di Silvestre S, Addabbo F, Di Pietrantonio N, Di Tomo P, Pipino C, Mandatori D, Palmerini C, Failli P, Bonomini M, Montagnani M, **Pandolfi A**. Calcimimetic R-568 vasodilatory effect on mesenteric vascular beds from normotensive (WKY) and spontaneously hypertensive (SHR) rats. Potential involvement of vascular smooth muscle cells (vSMCs). *PLoS One*; 2018 Aug 9;13(8): e0202354. doi: 10.1371/journal.pone.0202354.
 32. Pipino C, Mandatori D, Buccella F, Lanuti P, Prezioso A, Castellani F, Grotta L, Di Tomo P, Marchetti S, Di Pietro N, Cichelli A, **Pandolfi A**, Martino G. Identification and Characterization of a Stem Cell-Like Population in Bovine Milk: A Potential New Source for Regenerative Medicine in Veterinary. *Stem Cells Dev*; 2018 Nov 15; 27(22):1587-1597. doi: 10.1089/scd.2018.0114.
 33. Alessio N, Pipino C, Mandatori D, Di Tomo P, Ferone A, Marchiso M, Melone MAB, Peluso G, **Pandolfi A**, Galderisi U. Mesenchymal stromal cells from amniotic fluid are less prone to senescence compared to those obtained from bone marrow: An in vitro study. *J Cell Physiol*; 2018 Jun 15. doi: 10.1002/jcp.26845.
 34. Castellano I, Di Tomo P, Di Pietro N, Mandatori D, Pipino C, Formoso G, Napolitano A, Palumbo A, **Pandolfi A**. Anti-Inflammatory Activity of Marine Ovatolol A in an In Vitro Model of Endothelial Dysfunction Induced by Hyperglycemia. *Oxid Med Cell Longev.* 2018 Apr 19; 2018:2087373. doi: 10.1155/2018/2087373. eCollection 2018.
 35. Maccallini C, Di Matteo M, Gallorini M, Montagnani M, Graziani V, Ammazalorso A, Amoia P, De Filippis B, Di Silvestre S, Fantacuzzi M, Giampietro L, Potenza MA, Re N, **Pandolfi A**, Cataldi A, Amoroso R. Discovery of N-{3-[(ethanimidoylamino)methyl]benzyl}-l-prolinamide dihydrochloride: A new potent and selective inhibitor of the inducible nitric oxide synthase as a promising agent for the therapy of malignant glioma. *Eur J Med Chem.* 2018 May 25; 152:53-64. doi: 10.1016/j.ejmech.2018.04.027. Epub 2018 Apr 13.
 36. Totani L, Plebani R, Piccoli A, Di Silvestre S, Lanuti P, Recchiuti A, Cianci E, Dell'Elba G, Sacchetti S, Guarnieri S, Mariggiò MA, Mari VC, Anile M, Venuta F, Del Porto P, Moretti P, Prioletta M, Mucilli F, Marchisio M, **Pandolfi A**, Evangelista V, Romano M. Mechanisms of endothelial cell dysfunction in cystic fibrosis. *Biochim Biophys Acta*; 2017 Aug 25. pii: S0925-4439(17)30293-4. doi: 10.1016/j.bbdis.2017.08.011.
 37. Plebani R, Tripaldi R, Lanuti P, Recchiuti A, Patruno S, Di Silvestre S, Simeone P, Anile M, Venuta F, Prioletta M, Mucilli F, Del Porto P, Marchisio M, **Pandolfi A**, Romano M. Establishment and long-term culture of human cystic fibrosis endothelial cells. *Lab Invest*; 2017 Jul 31. doi: 10.1038/labinvest.2017.74.
 38. Di Tomo P, Lanuti P, Di Pietro N, Baldassarre MPA, Marchisio M, **Pandolfi A**, Consoli A, Formoso G. Liraglutide mitigates TNF- α induced pro-atherogenic changes and microvesicle release in HUVEC from diabetic women. *Diabetes Metab Res Rev*; 2017 Jul 28. doi: 10.1002/dmrr.2925.
 39. 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 a 2D and 3D dynamic culture system. *J Tissue Eng Regen Med*; 2017 May 16. doi: 10.1002/term.2471.
 40. Bonomini M, **Pandolfi A**, Sirolli V, Arduini A, Di Liberato L, Di Pietro N. Erythrocyte alterations and increased cardiovascular risk in chronic renal failure. *Nephro-Urology Monthly Open Access*; Volume 9, Issue 3, May 2017.
 41. Bonomini M, Arduini A, Sirolli V, Di Pietro N, **Pandolfi A**. [Erythrocyte abnormalities and their possible role in cardiovascular complications of uremia]. *G Ital Nefrol.*; 2017 Jan-Feb; 34(1). pii: gin/34.1.8. Italian.
 42. Codagnone M, Recchiuti A, Lanuti P, Pierdomenico AM, Cianci E, Patruno S, Mari VC, Simiele F, Di Tomo P, **Pandolfi A**, Romano M. Lipoxin A4 stimulates endothelial miR-126-5p expression and its transfer via microvesicles. *FASEB J*; 2017 Jan 18. pii: fj.201600952R. doi: 10.1096/fj.201600952R.
 43. Di Pietro N, Marcovecchio ML, Di Silvestre S, de Giorgis T, Cordone VG, Lanuti P, Chiarelli F, Bologna G, Mohn A, **Pandolfi A**. Plasma from pre-pubertal obese children impairs insulin stimulated Nitric Oxide (NO) bioavailability in endothelial cells: Role of ER stress. *Mol Cell Endocrinol*; 2017 Jan 3. pii: S0303-7207(17)30001-1. doi: 10.1016/j.mce.2017.01.001.
 44. Bonomini M, Di Silvestre S, Di Tomo P, Di Pietro N, Mandatori D, Di Liberato L, Sirolli V, Chiarelli F, Indiveri C, **Pandolfi A**, Arduini A. Effect of peritoneal dialysis fluid containing osmo-metabolic agents on human endothelial cells. *Drug Des Devel Ther*; 2016 Nov 28; 10:3925-3932.
 45. Maccallini C, Di Matteo M, Vullo D, Ammazalorso A, Carradori S, De Filippis B, Fantacuzzi M, Giampietro L, **Pandolfi A**, Supuran CT, Amoroso R. Indazole, Pyrazole, and Oxazole Derivatives Targeting Nitric Oxide

- Synthases and Carbonic Anhydrases. *ChemMedChem*; 2016 Aug 19;11(16):1695-9. doi: 10.1002/cmcd.201600204.
46. Di Pietro N, Giardinelli A, Sirolli V, Riganti C, Di Tomo P, Gazzano E, Di Silvestre S, Panknin C, Cortese-Krott MM, Csonka C, Kelm M, Ferdinandy P, Bonomini M, **Pandolfi A**. Nitric oxide synthetic pathway and cGMP levels are altered in red blood cells from end-stage renal disease patients. *Mol Cell Biochem*; 2016 Jun; 417(1-2):155-67. doi: 10.1007/s11010-016-2723-0.
 47. Marinelli L, Cacciatore I, Fomasari E., Gasbarri C., Angelini G., Marrazzo A., **Pandolfi A**, Mandatori D., Shi Y., Van Nostrum C.F., Hennink W.E., Di Stefano A. Preparation and characterization of polymeric micelles loaded with a potential anticancer prodrug. *Journal of Drug Delivery Science and Technology*; Vol. 35, 1 October 2016, pp. 24-29.
 48. Di Pietro N, Formoso G, **Pandolfi A**. Physiology and pathophysiology of oxLDL uptake by vascular wall cells in atherosclerosis. *Vascul Pharmacol*; 2016 May 30.pii: S1537-1891(15)30101-4.
 49. Pochini L., Scalise M., Di Silvestre S., Belviso S., **Pandolfi A**, Arduini A., Bonomini M., Indiveri C. Acetylcholine and acetylcamitine transport in peritoneum: Role of the SLC22A4 (OCTN1) transporter. *Biochim Biophys Acta*; 2016 Apr; 1858(4):653-60.
 50. Bonomini M., **Pandolfi A**. Chemerin in renal dysfunction and cardiovascular disease. *Vascul Pharmacol*; 2016 Feb; 77:28-34.
 51. Lanuti P., Serafini F., Pierdomenico L., Simeone P, Bologna G., Ercolino E., Di Silvestre S., Guamieri S., Canosa C., Impicciatore G.G., Chiarini S., Magnacca F., Mariggìo M.A., **Pandolfi A**, Marchisio M., Di Giammarco G., Miscia S. Human Mesenchymal Stem Cells Reendothelialize Porcine Heart Valve Scaffolds: Novel Perspectives in Heart Valve Tissue Engineering. *Biores Open Access*; 2015 Jun 1;4(1):288-97.
 52. Maccallini C., Montagnani M., Paciotti R., Ammazalorso A., De Filippis B., Di Matteo M., Di Silvestre S., Fantacuzzi M., Giampietro L., Potenza M.A., Re N., **Pandolfi A**, Amoroso R. Selective Acetamidine-Based Nitric Oxide Synthase Inhibitors: Synthesis, Docking, and Biological Studies. *ACS Med Chem Lett*; 2015 Apr 28;6(6):635-40.
 53. Pipino C. and **Pandolfi A**. Osteogenic differentiation of amniotic fluid mesenchymal stromal cells and their bone regeneration potential. *World J Stem Cells*; 2015 May 26; 7(4):681-90.
 54. Di Tomo P, Di Silvestre S., Cordone V.G.P., Giardinelli A., Faricelli B., Pipino C., Lanuti P., Peng T., Formoso G., Yang D., Arduini A., Chiarelli F., **Pandolfi A**. and Di Pietro N. Centella Asiatica and Lipoic Acid, or a combination thereof, inhibit monocyte adhesion to endothelial cells from umbilical cords of gestational diabetic women. *Nutr Metab Cardiovasc Dis*; 2015 Jul; 25(7):659-66.
 55. Morabito C., D'Alimonte I., Pierdomenico L., Pipino C., Guamieri S., Caprara G.A., Antonucci I., Ciccarelli R., Marchisio M., **Pandolfi A**, Mariggìo M.A. Calcitonin-Induced Effects on Amniotic Fluid-Derived Mesenchymal Stem Cells. *Cell Physiol Biochem*; 2015; 36(1):259-73.
 56. Pipino C., Pierdomenico L., Di Tomo P, Di Giuseppe F., Cianci E., D'Alimonte I., Morabito C., Centurione L., Antonucci I., Mariggìo M.A., Di Pietro R., Ciccarelli R., Marchisio M., Romano M., Angelucci S. and **Pandolfi A**. Molecular and phenotypic characterization of human amniotic fluid-derived cells. A morphological and proteomic approach. *Stem Cells Dev*; 2015 Jun 15; 24(12):1415-28.
 57. Pipino C., Mukherjee S., David A.L., Blundell M.P., Shaw S.W., Sung P., Shangaris P., Waters J.J., Ellershaw D., Cavazzana M., Mostoslavsky G., **Pandolfi A**, Pierro A., Guillot P.V., Thrasher A.J., and De Coppi P. Trisomy 21 mid-trimester amniotic fluid iPS cells maintain genetic signatures during reprogramming: implications for disease modeling and cryo-banking. *Cell Reprogram*; 2014 Oct; 16(5):331-44. doi: 10.1089/cell.2013.0091. Epub 2014 Aug 27.
 58. Di Fulvio P, **Pandolfi A**, Formoso G., Di Silvestre S., Di Tomo P, Giardinelli A., De Marco A., Di Pietro N., Taraborrelli M., Sancilio S., Di Pietro R., Piantelli M., Consoli A. "Features of endothelial dysfunction in gestational diabetic women umbilical cord vessels". *Nutr Metab Cardiovasc Dis*; 2014 Dec; 24(12):1337-45.
 59. Pipino C., Di Tomo P, Mandatori D., Cianci E., Lanuti P., Cutrona M.B., Penolazzi L., Pierdomenico L., Lambertini E., Antonucci I., Sirolli V., Bonomini M., Romano M., Piva R., Marchisio M., **Pandolfi A**. Calcium Sensing Receptor Activation by Calcimimetic R-568 in Human Amniotic Fluid Mesenchymal Stem Cells: Correlation with Osteogenic Differentiation. *Stem Cells Dev*; 2014 Dec 15;23(24):2959-71. doi: 10.1089/scd.2013.0627.
 60. Ambra R., Manca S., Palumbo M.C., Leoni G., Natarelli L., De Marco A., Consoli A, **Pandolfi A**, Virgili F. Transcriptome analysis of human primary endothelial cells (HUVEC) from umbilical cords of Gestational Diabetic mothers reveals candidate sites for an epigenetic modulation of specific gene expression. *Genomics*; 103 (2014), 337–348.
 61. Maccallini C., Di Matteo M., Ammazalorso A., D'Angelo A., De Filippis B., Di Silvestre S., Fantacuzzi M., Giampietro L., **Pandolfi A**. and Amoroso R. Reversed-phase high-performance liquid chromatography method with fluorescence detection to screen nitric oxide synthases inhibitors. *The Journal of Separation Science*; 2014; 37, 1380–1385.
 62. Qi L., Qi Q., Prudente S., Mendonca C., Andreozzi F., Di Pietro N., Sturma M., Novelli V., Mannino G.C., Formoso G., Gervino E.V., Hauser T.H., Muehlschlegel J.D., Niewczas M.A., Krolewski A.S., Biolo G., **Pandolfi A**, Rimm E., Sesti G., Trischitta V., Hu F., Doria A. Association Between a Genetic Variant Related to Glutamic Acid Metabolism and Coronary Heart Disease in Type 2 Diabetes. *JAMA*; 2013 Aug 28;310(8):821-8.
 63. **Pandolfi A**. Biology of Carotenoids and their potential cardiovascular health benefits. Masayoshi Yamaguchi Editor: "Carotenoids. Food Sources, Production and Health Benefits". Nova Biomedical Science Publishers; 2013, chapter XIV; 271-295.
 64. Di Tomo P, Pipino C., Lanuti P, Morabito C., Pierdomenico L., Sirolli V., Bonomini M., Miscia S., Mariggìo M.A., Marchisio M., Barboni B. and **Pandolfi A**. Calcium Sensing Receptor Expression in Ovine Amniotic Fluid Mesenchymal Stem Cells and the Potential Role of R-568 during Osteogenic Differentiation. *PLoS One*; 2013 Sep 9;8(9): e73816.
 65. D'Alimonte I., Lannutti A., Pipino C., Di Tomo P, Pierdomenico L., Cianci E., Antonucci I., Marchisio M., Romano M., Stuppia L., Caciagli F., **Pandolfi A**, Ciccarelli R. Wnt Signaling Behaves as a "Master Regulator" in the Osteogenic and Adipogenic Commitment of Human Amniotic Fluid Mesenchymal Stem Cells. *Stem Cell Rev. and Reports*; 2013 Oct;9(5):642-54.

66. Di Castelnuovo A., Di Pietro N., Di Tomo P., Di Silvestre S., Pipino C., Nenna G., Bonomini M., Iacoviello L., **Pandolfi A.**, on behalf of the MOLI-SANI Project Investigators and of the "Nucleus of pharmacist volunteers Italian Civil Protection (Abruzzo)" Investigators. Metabolic Syndrome in Survivors from the 2009 Earthquake in Italy. *Nutr Metab Cardiovasc Dis*; 2013 Jan;23(1): e5-8.
67. Di Pietro N., Di Tomo P., Di Silvestre S., Giardinelli A., Pipino C., Morabito C., Formoso G., Mariggiò MA., **Pandolfi A.** Increased iNOS activity in Vascular Smooth Muscle Cells from diabetic rats: potential role of Ca²⁺/Calmodulin-dependent Protein Kinase II delta 2 (CaMKIIdelta2). *Atherosclerosis*; 2013 Jan;226 (1):88-94.
68. Bacci S., Prudente S., Copetti M., Spoto B., Rizza S., Baratta R., Di Pietro N., Morini E., Di Paola R., Testa A., Mallamaci F., Tripepi G., Zhang Y.Y., Mercuri L., Di Silvestre S., Lauro R., Malatino L., Consoli A., Pellegrini F., **Pandolfi A.**, Frittitta L., Zoccali C., Federici M., Doria A., Trischitta V. Joint effect of insulin signaling genes on cardiovascular events and on whole body and endothelial insulin resistance. *Atherosclerosis*; 2012 Oct 16. doi:pii: S0021-9150(12)00719-8. 10.1016/j.atherosclerosis. 2013 Jan;226(1):140-5.
69. Prudente S., Sesti G., **Pandolfi A.**, Andreozzi F., Consoli A., Trischitta V. The mammalian tribbles homolog TRIB3, glucose homeostasis, and cardiovascular diseases. *Endocr Rev*; 2012 Aug;33(4):526-46.
70. Masciopinto F., Di Pietro N., Corona C., Bomba M., Pipino C., Curcio M., Di Castelnuovo A., Ciavardelli D., Silvestri E., Canzoniero L.M., Sekler I., **Pandolfi A.**, Sensi S.L. Effects of long-term treatment with pioglitazone on cognition and glucose metabolism of PS1-KI, 3xTg-AD, and wild-type mice *Cell Death Dis*; 2012 Dec 20;3: e448.
71. Andreozzi F., Presta I., Mannino G.C., Scarpelli D., Di Silvestre S., Di Pietro N., Succurro E., Sciacqua A., **Pandolfi A.**, Consoli A., Hribal M.L., Perticone F., Sesti G. A functional variant of the dimethylarginine dimethylaminohydrolase-2 gene is associated with insulin sensitivity. *PLoS One*; 2012; 7(4): e36224.
72. Bonomini M., Giardinelli A., Morabito C., Di Silvestre S., Di Cesare M., Di Pietro N., Sirolli V., Formoso G., Amoroso L., Mariggiò M.A., **Pandolfi A.** Calcimimetic R-568 and Its Enantiomer S-568 Increase Nitric Oxide Release in Human Endothelial Cells. *PLoS One*. 2012;7(1): e30682.
73. Di Tomo P., Canali R., Ciavardelli D., Di Silvestre S., De Marco A., Giardinelli A., Pipino C., Di Pietro N., Virgili F., **Pandolfi A.** β-Carotene and lycopene affect endothelial response to TNF-α reducing nitro-oxidative stress and interaction with monocytes. *Mol Nutr Food Res*; 2012; 56:217-27.
74. Siniscalco D., **Pandolfi A.**, Galderisi U. State-of-the-Art on Basic and Applied Stem Cell Therapy; Stem Cell Research Italy-International Society for Cellular Therapy Europe, Joint Meeting, Montesilvano (PE)-Italy, June 10-12, 2011, *Stem Cells Dev*; 2011; 21:668-669.
75. Prudente S., Morini E., Larmon J., Andreozzi F., Di Pietro N., Nigro A., Gervino EV., Mannino G.C., Bacci S., Hauser T.H., Bellacchio E., Formoso G., Pellegrini F., Proto V., Menzaghi C., Frittitta L., **Pandolfi A.**, Sesti G., Doria A., Trischitta V. The SH2B1 obesity locus is associated with myocardial infarction in diabetic patients and with NO synthase activity in endothelial cells. *Atherosclerosis*; 2011Dec; 219 (2):667-72.
76. Pavone B., Giardinelli A., Bucci S., Forlì F., Sirolli V., Di Cesare M., Di Pietro N., **Pandolfi A.**, Urbani A., Bonomini M. Plasma protein carbonylation in chronic uremia. *Journal of Nephrology* 2011; 24 (4): 453-464.
77. Bonomini M., **Pandolfi A.**, Di Liberato L., Di Silvestre S., Cnops Y., Di Tomo P., D'Arezzo M., Monaco M.P., Giardinelli A., Di Pietro N., Sirolli V., Devuyst O., Arduini A. L-Carnitine as an osmotic agent for peritoneal dialysis. *Kidney International* 2011; 80 (6): 645-654.
78. Formoso G., Di Tomo P., Andreozzi F., Succurro E., Di Silvestre S., Prudente S., Perticone F., Trischitta V., Sesti G., **Pandolfi A.**, Consoli A. The TRIB3 R84 variant is associated with increased carotid intima-media thickness in vivo and with enhanced MAPK signalling in human endothelial cells. *Cardiovasc Res*; 2011 Jan 1;89(1):184-92. Epub 2010 Aug 5. PMID: 20693163.
79. Mattoscio D., Evangelista V., De Cristofaro R., Recchiuti A., **Pandolfi A.**, Di Silvestre S., Manarini S., Martelli N., Rocca B., Petrucci G., Angelini D.F., Battistini L., Robuffo I., Pensabene T., Pieroni L., Furnari M.L., Pardo F., Quattrucci S., Lancellotti S., Davi G., Romano M. Cystic fibrosis transmembrane conductance regulator (CFTR) expression in human platelets: impact on mediators and mechanisms of the inflammatory response. *FASEB J*; 2010 Oct; 24(10):3970-80.
80. **Pandolfi A.** and Di Pietro N. High glucose, nitric oxide, and adenosine: a vicious circle in chronic hyperglycaemia? *Cardiovascular Research*; 86: 9–11, 2010 Editorial.
81. Di Pietro N., Panel V., Hayes S., Bagattin A., Meruvu S., **Pandolfi A.**, Hugendubler L., Fejes-Toth G., Naray-Fejes-Toth A.N., Mueller E. Serum and glucocorticoid-inducible kinase 1 (SGK1) regulates adipocyte differentiation via Forkhead box O1. *Mol Endocrinology* 24; 370–380, 2010.
82. Bacci S., Di Paola R., Menzaghi C., Di Fulvio P., Di Silvestre S., Pellegrini F., Baratta R., Marucci A., Mastroianno S., Fini G., Formoso G., Consoli A., Perticone F., Frittitta L., **Pandolfi A.**, Trischitta V. ENPP1 Q121 variant, increased pulse pressure and reduced insulin signaling, and nitric oxide synthase activity in endothelial cells. *Arterioscler Thromb Vasc Biol*; 2009 Oct;29(10):1678-83.
83. Di Francesco L., Totani L., Dovizio M., Piccoli A., Di Francesco A., Salvatore T., **Pandolfi A.**, Evangelista V., Dercho R.A., Seta F., Patrignani P. Induction of prostacyclin by steady laminar shear stress suppresses tumor necrosis factor-alpha biosynthesis via heme oxygenase-1 in human endothelial cells. *Circ Res*. 2009 Feb 27;104(4):506-13.
84. Andreozzi F., Formoso G., Prudente S., Hribal M.L., **Pandolfi A.**, Bellacchio E., Di Silvestre S., Trischitta V., Consoli A., Sesti G. TRIB3 R84 variant is associated with impaired insulin-mediated nitric oxide production in human endothelial cells. *Arterioscler Thromb Vasc Biol*; 2008 Jul; 28(7):1355-60.
85. Bonomini M., Sirolli V., Di Pietro N., **Pandolfi A.** [Reduced nitric oxide bioavailability in chronic renal failure: a new factor of progression?] *G Ital Nefrol*. 2008 May-Jun;25(3):306-16.
86. Consoli C., Martelli E., D'Adamo M., Menghini R., Arcelli D., Porzio O., **Pandolfi A.**, Pistolesse G.R., Consoli A., Lauro R., Ippoliti A., Federici M. Insulin resistance affects gene expression in endothelium. *Arterioscler Thromb Vasc Biol*; 2008 Feb; 28(2): e7-9.
87. Formoso G., De Filippis E.A., Michetti N., Di Fulvio P., **Pandolfi A.**, Bucciarelli T., Ciabattini G., Nicolucci A., Davi G., Consoli A. Decreased in vivo oxidative stress and decreased platelet activation following metformin treatment in newly diagnosed type 2 diabetic subjects. *Diabetes Metab Res Rev*; 2008 Mar-Apr; 24(3):231-7.

88. Capasso M., Di Muzio A., **Pandolfi A.**, Pace M., Di Tomo P., Ragno M., Uncini A. Possible role for nitric oxide dysregulation in critical illness myopathy. *Muscle Nerve*. 2008 Feb; 37(2):196-202.
89. **Pandolfi A.**, De Filippis E.A. Chronic hyperglycemia and nitric oxide bioavailability play a pivotal role in proatherogenic vascular modifications. *Genes Nutr*; 2007 Nov; 2(2):195-208.
90. Madonna R., Massaro M., **Pandolfi A.**, Consoli A., De Caterina R. The prominent role of p38 mitogen-activated protein kinase in insulin-mediated enhancement of VCAM-1 expression in endothelial cells. *Int J Immunopathol Pharmacol*; 2007 Jul-Sep; 20(3):539-55.
91. **Pandolfi A.**, Di Pietro N., Sirolli V., Giardinelli A., Di Silvestre S., Amoroso L., Di Tomo P., Capani F., Consoli A., Bonomini M. Mechanisms of uremic erythrocyte-induced adhesion of human monocytes to cultured endothelial cells. *J Cell Physiol*; 2007 Dec; 213(3):699-709.
92. Corallini F., Celeghini C., Rizzardi C., **Pandolfi A.**, Di Silvestre S., Vaccarezza M., Zauli G. Insulin downregulate TRAIL expression in vascular smooth muscle cells both in vivo and in vitro. *J Cell Physiol*; 2007; 212(1):89-95.
93. Secchiero P., Corallini F., **Pandolfi A.**, Consoli A., Candido R., Fabris B., Celeghini C., Capitani S., Zauli G. An increased osteoprotegerin serum release characterizes the early onset of diabetes mellitus and may contribute to endothelial cell dysfunction. *Am J Pathol*; 2006 Dec; 169(6):2236-44.
94. Tatone C., Carbone M.C., Falone S., Aimola P., Giardinelli A., Caserta D., Marci R., **Pandolfi A.**, Ragnelli A.M., Amicarelli F. Age-dependent changes in the expression of superoxide dismutases and catalase are associated with ultrastructural modifications in human granulosa cells. *Mol Hum Reprod*; 2006 Nov; 12(11):655-60.
95. Di Pietro R., Mariggio M.A., Guamieri S., Sancilio S., Giardinelli A., Di Silvestre S., Consoli A., Zauli G., **Pandolfi A.** Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) regulates endothelial nitric oxide synthase (eNOS) activity and its localization within the human vein endothelial cells (HUVEC) in culture. *J Cell Biochem*; 2006 Mar 1; 97(4):782-94.
96. **Pandolfi A.**, Solini A., Pellegrini G., Mincione G., Di Silvestre S., Chiozzi P., Giardinelli A., Di Marcantonio M.C., Piccirelli A., Capani F., Consoli A. Selective insulin resistance affecting nitric oxide release but not plasminogen activator inhibitor-1 synthesis in fibroblasts from insulin-resistant individuals. *Arterioscler Thromb Vasc Biol*; 2005 Nov; 25(11):2392-7.
97. **Pandolfi A.** C-reactive protein: a potential new molecular link between inflammation, thrombosis and vascular cell proliferation? *Cardiovasc Res*; 2005 Oct 1; 68(1):3-4.
98. Bonomini M., **Pandolfi A.**, Di Pietro N., Sirolli V., Giardinelli A., Consoli A., Amoroso L., Gizzi F., De Lutiis M.A., Felaco M. Adherence of uremic erythrocytes to vascular endothelium decreases endothelial nitric oxide synthase expression. *Kidney Int*; 2005 May; 67(5):1899-906.
99. Madonna R., **Pandolfi A.**, Massaro M., Consoli A., De Caterina R. Insulin enhances vascular cell adhesion molecule-1 expression in human cultured endothelial cells through a pro-atherogenic pathway mediated by p38 mitogen-activated protein-kinase. *Diabetologia*; 2004 Mar; 47(3):532-6.
100. Federici M., **Pandolfi A.**, De Filippis E.A., Pellegrini G., Menghini R., Lauro D., Cardellini M., Romano M., Sesti G., Lauro R., Consoli A. G972R IRS-1 variant impairs insulin regulation of endothelial nitric oxide synthase in cultured human endothelial cells. *Circulation*; 2004 Jan 27; 109(3):399-405.
101. **Pandolfi A.**, Grilli A., Cilli C., Patruno A., Giaccari A., Di Silvestre S., De Lutiis M.A., Pellegrini G., Capani F., Consoli A., Felaco M. Phenotype modulation in cultures of vascular smooth muscle cells from diabetic rats: association with increased nitric oxide synthase expression and superoxide anion generation. *J Cell Physiol*; 2003 Aug; 196(2):378-85.
102. Ciccarone E., Di Castelnuovo A., Salcuni M., Siani A., Giacco A., Donati M.B., De Gaetano G., Capani F., Iacoviello L. on behalf of the Gendible Investigators: **Pandolfi A.** A high-score Mediterranean dietary pattern is associated with a reduced risk of peripheral arterial disease in Italian patients with Type 2 diabetes. *Journal of Thrombosis and Haemostasis*, 1: 1744-1752, 2003.
103. Ciccarone E., Di Castelnuovo A., Assanelli D., Archetti S., Ruggeri G., Salcuni N., Donati M.B., Capani F., Iacoviello L. on behalf of the Gendible Investigators: **Pandolfi A.** Homocysteine levels are associated with the severity of peripheral arterial disease in type 2 diabetes patients. *Journal of Thrombosis and Haemostasis*, 1: 2540-2547, 2003.
104. Secchiero P., Gonelli A., Carnevale E., Milani D., **Pandolfi A.**, Zella D., Zauli G. TRAIL promotes the survival and proliferation of primary human vascular endothelial cells by activating the Akt and ERK pathways. *Circulation*; 2003 May 6; 107(17):2250-6.
105. Zauli G., **Pandolfi A.**, Gonelli A., Di Pietro R., Guamieri S., Ciabattini G., Rana R., Vitale M., Secchiero P. Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) sequentially upregulates nitric oxide and prostanoid production in primary human endothelial cells. *Circ Res*; 2003 Apr 18; 92(7):732-40.
106. **Pandolfi A.**, Giaccari A., Cilli C., Alberta M.M., Morviducci L., De Filippis E.A., Buongiorno A., Pellegrini G., Capani F., Consoli A. Acute hyperglycemia and acute hyperinsulinemia decrease plasma fibrinolytic activity and increase plasminogen activator inhibitor type 1 in the rat. *Acta Diabetol*; 2001; 38(2):71-6.
107. **Pandolfi A.**, Cetrullo D., Polishuck R., Alberta M.M., Calafiore A., Pellegrini G., Vitacolonna E., Capani F., Consoli A. Plasminogen activator inhibitor type 1 is increased in the arterial wall of type II diabetic subjects. *Arterioscler Thromb Vasc Biol*; 2001 Aug; 21(8):1378-82.
108. Nicolucci A., Ciccarone E., Consoli A., Di Martino G., La Penna G., Latorre A., **Pandolfi A.**, Vitacolonna E., Capani F. Relationship between patient practice-oriented knowledge and metabolic control in intensively treated Type 1 diabetic patients: results of the validation of the Knowledge and Practices Diabetes Questionnaire. *Diabetes Nutr Metab*; 2000 Oct; 13(5):276-83.
109. **Pandolfi A.**, Giaccari R., Polishuck M.M., Alberta G., Pellegrini L., Morviducci E., Vitacolonna A. M., Buongiorno F., Capani F., Consoli A. Diabetes Mellitus Induces Decreased Plasma Fibrinolytic Activity and Increased Tissue Synthesis of Plasminogen Activator Inhibitor-1 (PAI-1) In The Rat. *Fibrinol&Proteol*; 14 (4): 261-267, 2000.
110. **Pandolfi A.** and Consoli A.: Alterazioni del sistema fibrinolitico nella malattia diabetica. *Il Diabete*; 10:128-134, 1998.

111. **Pandolfi A.**, Di Febbo C., Baccante G., Alberta M.M.a, Capani F., Vitacolonna E. Porreca E., Consoli A. Combined effect of glucose and insulin in stimulating plasminogen activator inhibitor-1 secretion and gene expression in human vascular smooth muscle cells in culture. *Diabetes, Nutrition and Metabolism - Clinical and Experimental*; 1997; 10(5), pp. 219-224.
112. **Pandolfi A.**, Iacoviello L., Capani F., Vitacolonna E., Donati M.B., Consoli A. Glucose and insulin independently reduce the fibrinolytic potential of human vascular smooth muscle cells in culture. *Diabetologia*;1996 Dec;39(12):1425-31.
113. Messina E., Muhlhauser J., Giuliano M., **Pandolfi A.**, Morgese G., Procopio A. Surfactant protein A-producing cells in human fetal lung are good targets for recombinant adenovirus-mediated gene transfer. *Pediatr Res*; 1996 Jul;40(1):142-7.
114. Porreca E., Di Febbo C., **Pandolfi A.**, D'Orazio A., Martelli N., Mezzetti A., Cucurullo F., Poggi A. Differences in the glutathione system of cultured aortic smooth muscle cells from young and aged rats. *Atherosclerosis*; 1993 May;100(2):141-8.
115. **Pandolfi A.**, Florita M., Altomare G., Pigatto P., Donati M.B., Poggi A. Increased plasma levels of platelet derived growth factor activity in patients with progressive systemic sclerosis. *Proc Soc Exp Biol Med* 1989 May;191(1):1-4.

Chieti, 23.05.23

*In fede,
Prof.ssa Assunta Pandolfi*