

Gianfranco Pintus Curriculum Vitae

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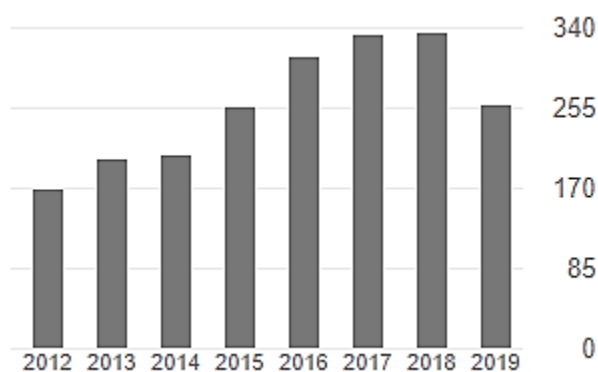
Gianfranco Pintus, MSc, PhD

https://www.researchgate.net/profile/Gianfranco_Pintus

<https://scholar.google.com/citations?user=6ZKobIkAAAAJ&hl=en>

Citation indices	All	Since 2014
<u>Citations</u>	2931	1704
<u>h-index</u>	28	22
<u>i10-index</u>	56	44

Citations per year



Education

1995 – 1999

University of Bologna

Doctor of Philosophy (Ph.D.), Biochemistry, 1995 – 1999

Thesis Title: Effect of polyelectrolytes on the proliferation and development of cultured endothelial cells.

Tutor Prof. Carlo Ventura

1986 – 1992

University of Sassari

Master of Science (M.Sc.), Biological Sciences, 1986 – 1992

Thesis Title: “Metal and H2 inhibitor interaction.

Tutor Prof. Maria Luisa Ganadu

Work Experience

Sept 2019 - Present

Professor, Head of Department, University of Sharjah, UAE Position held: *Professor*. Main activities and responsibilities: Teaching Biology, Lab Managements, and Advance clinical Chemistry. Undergraduate and postgraduate student supervisor, PhD student supervisor and mentor, young researchers’ mentor. Coordinate faculty and administration, Coordination BSc and MSc in

Medical Laboratory Sciences. Research groups coordinator within national and international research projects. Staff and Grants management within national and international research projects. *Head*: Laboratory of cell Signaling and Redox Biology. Main Research Interests: Investigation of redox-regulated signaling pathways involved in age- and pathology-associated vascular damage. Investigation of redox-regulated signaling pathways involved in the cellular response to naturally occurring (or derived from food-processing) antioxidants and other drugs.

Dec 2017 - present

On December 2017 Dr. Pintus achieved the National Scientific qualification as Full Professor in the Italian higher education system for the disciplinary fields of General Biochemistry, Clinical Biochemistry and Molecular Biology, and Applied Medical Technologies (Ministerial decree no. 1532, 29

Aug 2006 - Present (on leave)

Associate Professor of Biochemistry, Head of Laboratory, University of Sassari, Italy. Position held: *Associate Professor*. Main activities and responsibilities: Teaching Chemistry and Propaedeutic Biochemistry, Biochemistry, Cell Biology and Molecular Biology at the School of Medicine and within the PhD program in Biotechnology and Biomolecular Sciences. Undergraduate and postgraduate student supervisor, PhD student supervisor and mentor, young researchers' mentor. Research groups coordinator within national and international research projects. Staff and Grants management within national and international research projects. *Head*: Laboratory of cell Signaling and Redox Biology. Main Research Interests: Investigation of redox-regulated signaling pathways involved in age- and pathology-associated vascular damage. Investigation of redox-regulated signaling pathways involved in the cellular response to naturally occurring (or derived from food-processing) antioxidants and other drugs. Name and address of employer: University of Sassari, Viale San Pietro 43/B, 07100, Sassari, Italy. (Phone 39.079.228121.- 39.079.228583)

Aug 2016 - Aug 2019

Associate Professor of Biomedical Sciences, Qatar University, Doha, Qatar. Position held: Associate Professor. Name and address of employer Qatar University, College of Health Sciences, Department of Biomedical Sciences. Main activities and responsibilities: Teaching Biochemistry, Medical Laboratory Laws and Ethics, Laboratory Management, Safety and Quality Control, Pathophysiology for undergraduates and graduate course. Joint Research Position at the Biomedical Research Center, performing research on Diabetes & Cardiovascular Diseases Qatar University, Doha, Qatar

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- June 2016 – July 2017* **Honorary Senior Research Fellow, University of Bristol.** Position held: Honorary Senior *Research Fellow*. Main activities and responsibilities: Research on Vascular Biology / Endothelial Cell Biology / microRNA / Vascular remodeling. Name and address of employer: University of Bristol, Laboratory of Vascular Pathology and Regeneration. Level 7, Bristol Royal Infirmary, Upper Maudlin Street BS2 8HW, Bristol UK Phone +44 (0) 117 34 23512 (Head of the Laboratory Prof. Costanza Emanuelli)
- Nov 2013 - present **Visiting Professor, Hue University of Medicine and Pharmacy, Hue, Vietnam.** Position held: *Visiting Professor*. Main activities and responsibilities: Teaching Cell and Tissue Cultures in the joint Master's degree course on Medical Biotechnology Name and address of employer: Hue University of Medicine and Pharmacy, 06 Ngo Quyen st, Hue city, Vietnam. (Phone: 84.54.3822173 - 84.54.3822873)
- Aug 2014 – Sep 2014* **Research Fellow, University of Bristol.** Position held: *Research Fellow*. Main activities and responsibilities: Research on Vascular Biology / Endothelial Cell Biology / microRNA / Vascular remodeling. Name and address of employer: University of Bristol, Laboratory of Vascular Pathology and Regeneration. Level 7, Bristol Royal Infirmary, Upper Maudlin Street BS2 8HW, Bristol UK Phone +44 (0) 117 34 23512 (Head of the Laboratory Prof. Costanza Emanuelli)
- Jul 2007 - Oct 2007 **Special Volunteer, National Institutes of Health (NIH/NIA)** Position held: *Special Volunteer*. Main activities and responsibilities: Research on Vascular Aging / Endothelial Cell Biology / Vascular damage elicited by Aging- and age-associated pathology. Name and address of employer: Laboratory of Cardiovascular Science, Intramural Research Program, National Institute on Aging, National Institutes of Health, 5600 Nathan Shock Drive, Baltimore, MD 21224. (Head of the Laboratory Dr. Edward G Lakatta)
- Jan 2004 – Jan 2007* **Visiting Fellow, National Institutes of Health (NIH/NIA).** Occupation or position held: **Visiting Fellow**. Main activities and responsibilities: Research on Vascular Aging / Endothelial Cell Biology / Vascular damage elicited by Aging- and age-associated pathology. Name and address of employer: Laboratory of Cardiovascular Science, Intramural Research Program, National Institute on Aging, National Institutes of Health, 5600 Nathan Shock Drive, Baltimore, MD 21224. (Head of the Laboratory Dr. Edward G Lakatta)
- Nov 2001 – Nov 2006* **Assistant Professor, University of Sassari.** Occupation or position held: *Assistant Professor*. Main activities and responsibilities: Teaching Chemistry and Introductory Biochemistry, at the School of Medicine. Undergraduate and postgraduate student supervisor. Research team leader (six personal units). Research Group Coordinator within national and international research projects. Staff management within national and international research projects. Main Research Interests: Dissection of the signaling pathways involved in the

modulation of vascular cells functions by polyelectrolytes and anti-metastatic drugs. Name and address of employer: University of Sassari, Viale San Pietro 43/B, 07100, Sassari, Italy. (Phone 39.079.228121.- 39.079.228583)

Nov 1999 - Nov 2000 **Postdoctoral Fellowship INBB (National Institute for Biostructures and Biosystems), ITA.** Occupation or position held: *Post-Doctoral Fellow*. Main activities and responsibilities: Research on Vascular Biology / Endothelial Cell Biology. Main Research Interests: Dissection of the signaling pathways involved in the modulation of vascular cells functions by polyelectrolytes and anti-metastatic drugs. Name and address of employer: INBB (National Institute for Biostructures and Biosystems), Viale medaglie d'Oro 305 - 00136 Roma. Phone. +39 0635340153. Web site: www.inbb.it Type of business or sector: Universities Consortium / Research

Nov 1995 - Feb 1999 **PhD Student, University of Bologna, Italy.** Occupation or position held: *PhD Students*, Main activities and responsibilities: Research on Vascular Biology / Endothelial Cell Biology. Main Research Interests: Dissection of the signaling pathways involved in the modulation of vascular cells functions by polyelectrolytes and anti-metastatic drugs. Name and address of employer: University of Bologna, Department of Biomedical and Neuromotor Sciences, University of Bologna, Via Irnerio 48, 40126 Bologna (Phone: 39 051 20 92950)

Mar 1994 - Mar 1995 **Postgraduate Fellowships at the University of Sassari; Italy.** Occupation or position held: **Postgraduate Fellow**. Main activities and responsibilities: Research on Opioid Peptide / Cardiac Myocytes / Fellowship Sponsor: Banco di Sardegna s.p.a., Viale Umberto I, 36 - 07100 Sassari. Phon+39 079226000. Web sites: www.bancosardegna.it - www.fondazionebancodisardegna.it Type of business or sector: Joint-Stock Company / Bank / Bank Foundation

July 1994 - August 1994 **Visiting Fellow, King's College London, UK.** Occupation or position held: **Visiting fellow**. Main activities and responsibilities: Research on Polyamines / Endothelial Cells / Name of Laboratory: King's College, Vascular Biology Research Centre, Division of Biomedical Sciences. Campden Hill Road, London W8 7AH U.K. (Supervisor Dr. David M.L. Morgan)

Nov 1993 - Nov 1994 **Research Volunteer, University of Sassari; Italy.** Occupation or position held: **Volunteer**. Main activities and responsibilities: Research on Opioid Peptide / Cardiac Myocytes. Name of Laboratory: Institute of Biological Chemistry, School of Medicine, University of Sassari, Viale San Pietro 43/B, 07100 Sassari. Phone: +39 079228514. Web site: www.uniss.it (Supervisor Dr. Carlo Ventura)

Nov 1992 - Nov 1993 **Volunteer (post-graduation internship), University of Sassari; Italy.** Occupation or position held: **Volunteer**: Main activities and responsibilities: Organic Synthesis / Compounds Characterization / Chromatography / HPLC/

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NMR/ Laboratory CNR institute "Applicazione Tecniche Chimiche Avanzate ai Problemi Agrobiologici", Sassari, Italy Research (Supervisor Dr. Giovanna Sanna)

Nov 1990 - Nov 1992 **Volunteer (pre-graduation internship), University of Sassari, Italy.** pre-graduation internship: Inorganic Synthesis / Compounds Characterization / IR / NMR/ Laboratory work University of Sassari, Department of Chemistry, Via Vienna, 2 I, 07100 assari. Phone: +39 079 229535, web site: <http://chimica.uniss.it/ws.php>

Nov 1986 - Mar 1992 **MSc Student, University of Sassari, Italy**

Others Academic Activities

2019 - present Head of Department, Medical Laboratory Sciences, University of Sharjah
2013 - 2015 Member of the Big Instruments Committee of the University of Sassari
2013 - 2015 Member of the Internationalization Committee of the University of Sassari
2015 - 2017 Member of the Academic Senate University of Sassari
2015 - 2017 Member of the Department's Research committee, Department of Biomedical Sciences, University of Sassari
2016 - 2019 Member of the College of Health Sciences Promotion committee Qatar University
2016 - 2019 Member of the Department's Curriculum committee, Department of Biomedical Sciences, Qatar University.
2016 - 2019 Member of the Department's Research committee, Department of Biomedical Sciences, Qatar University
2016 - 2019 Member of the Department's Graduate committee, Department of Biomedical Sciences, Qatar University
2017 - 2019 Learning Program Objectives (LPO) coordinator for the Master Program in Biomedical Sciences, College of Health Sciences, Qatar University
2013-present Member of the Academic and Scientific Board of the Joint International MSc Program in Medical Biotechnology (university of Sassari, Sassari, Italy – University of Hue College of Medicine and Pharmacy, Hue, Vietnam)
2003-present Member of the Academic and Scientific Board of the International PhD Program in Life Sciences and Biotechnologies (university of Sassari, Sassari, Italy)

Awards

2009 Co-financial award by the University of Sassari in support of the research project PRIN2008. Euro 14.629
2009 Award by the University of Sassari in support of the research project PRIN2008. Euro 5.500 (high ranked national projects)

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- 2010 Award by the Sardinia Region in support of the research activity of prof. Pintus Euro 10.000
- 2011 Award by the University of Sassari in support of the research project PRIN2011. Euro 10.000 (high ranked national projects)

Grants

- 2000-2002 **Project Title:** "Delivery of ruthenium complexes mediated by saccharides carrier: Preliminary studies on the individualization of preferential biochemical target for the active compound." Funded by POLI-tech, AREA Science-Park Trieste **Principal Investigator (PI) Grant, 15.000 EUR**
- 2003-2005 **Project Title:** "Effect of ruthenium complexes on signal transduction pathway regulation". Funded by the Callerio Foundation, Trieste, Italy. **PI, Grant, 25.000 EUR**
- 2005-2008 **Project Title:** "Analytical characterization and "in vivo" determination of antioxidant activity of new formed antioxidants in fruit and vegetable derivatives". Funded by the Italian *Ministry* of Education, University and Research. (**PRIN-05**). Scientific Responsible, Groups Coordinator & **PI** (four research teams, 33 personal units) **Grant, 117.215 EUR total**
- 2005-2008 **Project Title:** Evaluation of the capability of new formed antioxidants from fruits and vegetables to control proliferation and apoptosis of endothelial cells. **PI. Grant, 30.000 EUR** from the above PRIN-05
- 2007-2008 **Project Title:** "Molecular Analysis of the mechanism of action of a new anti-metastatic compound". Funded by the Bank of Sardinia Foundation. **PI, Grant, 12.000 EUR**
- 2008-2009 **Project Title:** "Study of the Intracellular redox system as a potential target for the development of new anticancer therapies". Funded by the Bank of Sardinia Foundation. **PI. Grant, 14.000 EUR**
- 2009-2010 **Project Title:** "Impact and mechanisms of action of plant-derived bioactive compounds on vascular cells". Funded by the Bank of Sardinia Foundation. **PI. Grant, 15.500 EUR**
- 2010-2011 **Project Title:** "Analysis of the molecular mechanisms involved in the cellular response to plant-occurring substances subjected to food processing". Funded by the Bank of Sardinia Foundation. **PI. Grant, Euro 25.500**
- 2010-2012 **Project Title** "Table olives and olive oil: influence of transformation, extraction, conservation and cooking processes on both anti-oxidant activity and vascular protection, in vitro and in vivo studies". Funded by the Italian *Ministry* of Education, University and *Research (PRIN-08)*. **Scientific Responsible, Groups Coordinator & PI** (four research teams, 28 personal units) **Grant, 190.888 EUR**
- 2010-2012 **Project Title:** Evaluation of vascular protective effects of alimentary antioxidant derived from table olives and olive oil: Molecular analysis on cultured endothelial and vascular smooth muscle cells. **PI. Grant, 65.429 EUR** from the above **PRIN-08**

- 2010- 2012 **Project Title:** “Role of the Immune response in the genesis of scleroderma vascular disease: Molecular mechanisms and identification of early biochemical markers”. Funded by the Autonomous Region of Sardinia. **Scientific Responsible, Groups Coordinator & PI** (four research teams, 18 personal units) **Grant, 75.500 EUR [# CP3-133]**
- 2011-2012 **Project Title:** “Role of immune response in the genesis of vascular damage in systemic sclerosis: molecular mechanisms and identification of early markers. Funded by the Bank of Sardinia Foundation. **PI. Grant, 18.000 EUR**
- 2012-2013 **Project Title:** “Identification of antibodies for monitoring the vascular damage in systemic sclerosis as tool for diagnostic and therapeutic purposes”. Funded by the Bank of Sardinia Foundation. **PI. Grant, 19.850 EUR**
- 2012- 2015 **Project Title:** “Development of innovative nano-devices with site specific action for the prevention, diagnosis and therapy of prostate cancer”. Funded by the Autonomous Region of Sardinia. **Unit Coordinator & PI. Grant, 125.500 EUR [# CRP-25920]**
- 2013-2014 **Project Title:** Influence of diet on epigenetic modifications induced by the maternal diabetes in human vascular cells. Funded by the Bank of Sardinia Foundation. **PI. Grant, 18.000 EUR**
- 2014-2015 **Project Title:** Analysis of the epigenetic transmission in the cardiovascular diseases through the characterization of the changes induced by prenatal gestational diabetes in Sardinia”. Funded by the Bank of Sardinia Foundation. **PI. Grant, Euro 20.000**
- 2016-2018 **Project Title:** Sustainability of the Olive-oil System: **Funded by The Fondazione Cariplo Co-Pi. 40.000 EUR [# SOS]**
- 2017-2018 **Project Title:** Role of oxidative stress in high glucose-induced endothelial-to-mesenchymal transition: **Funded by QNRF - UREP20-051-3-012. Lead PI. Grant, USD 30.000**
- 2017 **Project Title:** Effect of Natural Antioxidants on high glucose-induced phenotypic Modulation of Human Endothelial Cells. **Lead PI. Grant, 10.000 QR - QUST-2-CHS-2017-7**
- 2017 **Project Title:** Effect of Natural Antioxidants on phenotypic Modulation of Human Endothelial Cells. **Lead PI. Grant, 10,000 QR - QUST-2-CHS-2017-8**
- 2018-2019 **Project Title:** Effect of natural antioxidants on Diabetes-induced epigenetic modifications in human endothelial cells: An ex-vivo/in-vitro Approach”. **Lead PI- Grant, 298.927 QR. - QUCG-CHS-2018\2019-1**
- 2019-2020 **Project Title:** Development of a predictive biomarker fingerprint of disease exacerbations in subjects with obstructive and restrictive respiratory diseases. Funded by the Autonomous Region of Sardinia. **PI- Grant, 110.000 EUR. - [# RAS SR 82005]**
- 2019-2020 **Project Title:** Investigating predictive biomarkers and cellular/molecular determinants of chronic respiratory diseases. **Lead PI - QU IRCC 2018-2019 - Grant, 244.000 USD**

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- 2019-2020 **Project Title:** Effect of natural antioxidants on high glucose-induced endothelial-to-mesenchymal transition **Funded by QNRF – UREP24-016-3-004. Lead PI. Grant, USD 30.000**
- 2019-2020 **Project Title:** Role of endothelial cells in heart valve pathology: Effect of diabetes on side specific valve endothelial cells. **Funded by QNRF – UREP24-036-3-013 - PI. Grant, USD 19,999**
- 2019-2020 **Project Title:** Effect of Diabetes on the Bioavailability of Endothelial Nitric Oxide Synthase in Blood Outgrowth Endothelial Cells: Towards Blood Stem Cell-Based Gene Therapy - **Funded by QNRF – UREP24-044-3-017- PI. Grant, USD 30.000**

Submitted Grants

- 2019 **Project Title:** Applications of fluorescent tracers for precision oncological surgery Italian. **Co-PI – Italian PRIN 2019 (equivalent to QNRP)**

Grant Panels Review

- 2012-present Università del Foro Italico (Intramural projects), Italy
2007 – present Ministry of Education, University and Research (FIRB Project), Italy.
2007- present Ministry of Education, University and Research (MIUR Projects), Italy
2017- present Cancer Research Wales, Wales, UK.

Editorial Activity

Editorial Boards

PLOS ONE (Academic Editor), Journal of Infection in Developing Countries (Editorial Board), Frontiers in Cardiovascular Medicine - Cardiovascular Biologics and Regenerative Medicine (Associated Editor), Frontiers in Genetics - Genetic of Aging (Guest Associate Editor), Oxidative Medicine and Cellular Longevity (Guest Editor), EC Nutrition (Editorial Board), The Open Biochemistry Journal (Editorial Board).

Ad hoc Reviewer"

Archives of Biochemistry and Biophysics, Cancer Immunology Immunotherapy, Cardiovascular Research, Endocrine, Metabolic & Immune Disorders-Drug Targets, FASEB Journal, Food Chemistry, Food Research International, Frontiers in Bioscience, International Journal of Biological Sciences, International Journal of Molecular Sciences, Journal of Cellular and Molecular Medicine, Journal of Cellular Physiology, Journal of Functional Foods in Health and Disease, Journal of Infection in Developing Countries, Journal of Inorganic Biochemistry, Journal of Pharmacy and Pharmacology, Molecules, Oncogene, PloS ONE, Food and Chemical Toxicology, Molecular Biology Reports, Experimental Cells Research, Aging., Molecular Brain Research, Frontiers in Physiology, Cells, Biomolecules.

Memberships in Society

- Italian Society of Biochemistry and Molecular Biology (SIB), since 2000.
- Federation of European Biochemical Societies (FEBS), since 2000.
- European Atherosclerosis Society (EAS), since 2000.

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- European Society of Cardiology (ESC), WG on Atherosclerosis and Vascular Biology, since 2009.
- European Vascular Biology Organization (EVBO), since 2009.
- Society for Free Radical Research Europe (SFRR), since 2017.
- Middle East Molecular Biology Sources (MEMBS), since 2017.
- Fellow of the Royal Society of Biology (FRSB), since 2019.

Invited Lectures

1. Resveratrol counteracts oxidative stress and endothelial to mesenchymal transition elicited by high glucose in human retinal endothelial cells., **Pintus G** - 4th Annual QU Health Research Symposium. 30th & 31st of March 2019
2. Resveratrol counteracts oxidative stress and endothelial to mesenchymal transition elicited by high glucose in human retinal endothelial cells. Giordo R, Al-Korbi HA, Abdulkader HA, Cossu A, Posadino AM, Nasrallah GK, **Pintus G**. The 4th World Academic Congress of Emergency Medicine WACEM 2018, Doha, Qatar. 1 - 4 November 2018"
3. Redox Regulation and Oxidative Stress: Interdisciplinary aspects of Biology and Medicine. **Pintus G**. College of Pharmacy, Qatar University. 20 Feb, 2017.
4. Protective effects of melanoidins derived from dried apricots on oxidative damage and mitochondrial-dependent endothelial cell death. **Pintus G**. 22nd IUBMB & 37th FEBS Congress, Seville, Spain, September 4-9, 2012.
5. Glutathione, ruthenium drugs and cancer. **Pintus G**. COST D39 WG 003/06 meeting "New targets for metal-based drugs: beyond DNA", Trieste (Italy) - May, 22-23, 2009
6. Molecular mechanisms of NAMI-A-mediated endothelial cell growth inhibition. Pintus G. Scientific Reports from the 2003 retreat of the C & D Callerio Foundation Onlus, Trieste 19 May 2003
7. MAPK signaling pathway in the control of endothelial cell proliferation. **Pintus G.**, Tadolini B., Posadino A.M., Sanna B., Debidda M., Bennardini F., Bergamo A., Sava G., Ventura C. 48th National Congress of the Italian Society of Biochemistry (SIB) Ferrara, 15-18 settembre 2003.
8. Inhibition of human bladder tumor cell line (T-24) DNA synthesis by a new antimetastatic compound NAMI-A: effects on MAPK/ERK pathway and caspase activity. **Pintus G**. Biomedicina 99 "New Frontiers in Medicine". Firenze 22-24 Novembre 1999
9. Heparin inhibits phorbol ester-induced ODC gene expression in human endothelial cells. **Pintus G**. 11a National PhDs Assembly of in biochemical disciplines "Castellani A" (Pavia) 16-19 giugno 1998.

Mentorship

BSc Students

- AY 2008/2009. Bachelor's thesis in Experimental and Applied Biology. Prune Melanoidins protect endothelial cell against H₂O₂-induced oxidative stress and cell damage.
- Candidate Spanu, M.R Lorenza.

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AY 2008/2009. Candidate Carboni Marianna	Bachelor's thesis in Experimental and Applied Biology. Investigation of the intracellular signaling activated by natural antioxidants in human endothelial cells.
AY 2008/2009. Candidate Maria Grazia Serra	Bachelor's thesis in Experimental and Applied Biology. Molecular Analysis of the Dose-Related Pro-Oxidant Effects of Natural Antioxidants in Human Endothelial Cells
AY 2010/2011. Candidate Antonella Beltramo	Bachelor's thesis in Experimental and Applied Biology. Antioxidant activity of supercritical CO ₂ extracts from Salvia Desoleana in two human endothelial models
AY 2010/2011. Candidate Giommaria Ventura.	Thesis's degree in Dentistry and Dental Prosthesis. Comparative evaluation of new resinous materials in the treatment of dentinal hypersensitivity (Co-Tutor prof. Gianfranco Pintus).
AY 2012/2013. Candidate Gianfilippo Caggiari	Thesis's degree in Medicine and Surgery. Le condropatie: Antagonism between Growth Factors and ROS; Clinical applications (Co-Tutor prof. Gianfranco Pintus).
AY 2012/2013. Candidate Simona Pala.	Bachelor's thesis in Experimental and Applied Biology. Phenotypic characterization and molecular changes induced by gestational diabetes on human umbilical vein Endothelial cells
AY 2012/2013. Candidate Paola Oliveri.	Bachelor's thesis in Experimental and Applied Biology. Analysis of the effects of sera from patients with scleroderma on Human Lung Vascular Smooth Muscle Cells collagen synthesis
AY 2015/2016. Candidate Claudia Bullitta.	Bachelor's thesis in Experimental and Applied Biology. Protective effect of Cagnulari Marc extracts on the oxidatively damaged human endothelial cells
AY 2015/2016. Candidate Nadia Arca.	Bachelor's thesis in Experimental and Applied Biology. Molecular Mechanisms of Systemic Sclerosis-induced Vascular Damage
Sprig 2018 - Candidate Ala Abdelrazeg Mohamed	Bachelor's thesis in Biomedical Sciences: Dose-dependent biphasic effect of the antioxidants resveratrol on human endothelial cells functions
Sprig 2018 - Yara Alaa Mohamed Kotb	Bachelor's thesis in Biomedical Sciences: Dose-dependent biphasic effect of the antioxidants resveratrol on human endothelial cells functions
Sprig 2018 - Hadil Abdulkader	Bachelor's thesis in Biomedical Sciences: Effect of High Glucose Concentration on Human Retinal Endothelial Cell Phenotype
Sprig 2018 - Halah Alkorbi	Bachelor's thesis in Biomedical Sciences: Effect of High Glucose Concentration on Human Retinal Endothelial Cell Phenotype

MSc Students

AY 2013/2015. Candidate. Nguyen Le Hong Van	Thesis subject: Resveratrol alters Human umbilical vein endothelial cells redox state.
AY 2014/2016. Candidate. Nguyen Thi Thuy Duong	Thesis subject: Protective effect of Cagnulari marc extracts on oxidative-induced endothelial cell damage

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PhD Students

AY 2009/2010 Candidate. Delogu, Salvatore	Thesis subject: The lipogenic phenotype activation is mediated by the AKT / mTOR signaling pathway and associated with the prognosis of human hepatocellular carcinoma
AY 2009/2010 CAndidate. Punzoni, Stefania	Thesis subject: Synthesis, characterization and analysis of the biological effects of TiO ₂ , SiO ₂ and ZrO ₂ nanoparticles on human endothelial cell
AY 2010/2011 Candidate Cossu, Annalisa	Thesis subject: Study of intracellular signaling pathways triggered by natural antioxidants in human endothelial cells.
AY 2011/2012. C a n d i d a t e . Candidata Gioia Gasparetti	Thesis subject. Melanoidins from dry fruit prevent oxidative endothelial cell death by counteracting mitochondrial oxidation and membrane depolarization
AY 2012/2013 Candidate Floris, Ilaria	Thesis subject: Characterization of molecular and phenotypic effects induced by Gestational Diabetes Mellitus (GDM) on endothelial cells and placenta tissue
AY 2012/2013 Candidata Marini, Alberto	Thesis subject: Role of stromal fibroblasts in prostate carcinoma progression and metabolic reprogramming of cancer cells.
AY 2012/2013 Candidate. Phu Thi, Hoa	Thesis subject: Study of intracellular signals impacted by a green tea standardized extract (Polyphenon E) in cancer cells
AY 2013/2014. Totiger, T. Malapa	Thesis subject: Cellular and molecular study of vascular damage during systemic sclerosis.
AY 2014/2015 Candidate. Totiger, S. Tulasigeri	Thesis subject: The chondropathies: study of antagonism between growth factors and reactive oxygen species; clinical applications in the early stages of chondral lesions (ongoing)
AY 2014/2015. Candidate Vardeu Antonella	Thesis subject: Impact of the diabetic environment on the foetal vasculature: Thesis subject: role of micro-RNA 101 and Enhancer of Zest Homologue 2 (ongoing)
AY 2015/2016. Candidate Marina Bacci	Thesis subject: Metabolic reprogramming of estrogen receptor positive breast cancer in endocrine therapy resistance.
AY 2014/2015. Candidate. Duong, Thi Bich Thuan	Thesis subject: investigation of the molecular mechanisms inducing the vascular damage in systemic sclerosis
AY 2017/2018, Candidate. Nguyen, Thi Hieu Dung	Thesis subject: Thesis subject: Analysis of the role of oxidative stress and endothelial to mesenchymal transition in patients with idiopathic pulmonary fibrosis.
AY 2017/2018, Candidate Davide Maselli	Thesis subject: Mechanical stress in the bypass stenosis

Post-Doctoral Fellow

- AY 2012/2013. Dr. Cossu, Annalisa *Project Title: impact of natural antioxidants on the epigenetic profile and the functional capacity of endothelial cells isolated from diabetic mothers (2012-2013).*
- AY 2013/2014. Dr. Elisabetta Pisanu *Project Title: Plasma proteins as a potential tool for the delivery of biologically active substances: Analysis of the cellular response to the treatment of albumin linked to natural antioxidants (2013-2014)*
- AY 2014/2015. Dr. Cossu, Annalisa *Project Title: Plasma proteins as a potential tool for the delivery of biologically active substances: Analysis of the cellular response to the treatment of albumin linked to natural antioxidants (2014-2015)*
- AY 2012/2016. Dr. Giordo, Roberta *Project Title: Production of antibodies for monitoring the systemic sclerosis-associated vascular damage: Potential practical study for the analysis of both the disease progress and the therapeutic response (2012-2016)*
- AY 2016/2018 Dr. Cossu, Annalisa *Project Title: Exploitation of by-products deriving from production of extra virgin olive oils and development of nutraceuticals: characterization of biologically active compounds – SOS-*

Original Publications in peer-reviewed Journals

1. Wehbe N, Nasser SA, **Pintus G**, Badran A, Eid AH, Baydoun E- MicroRNAs in Cardiac Hypertrophy. **Int J Mol Sci.** 2019;20(19). pii: E4714. doi: 10.3390/ijms20194714.
2. Phu HT, Duong Thuan DTB, Nguyen THD, Posadino AM, Eid AH, **Pintus G**. Herbal Medicine for Slowing Aging and Aging-Associated Conditions: Efficacy, Mechanisms and Safety. **Curr Vasc Pharmacol.** 2019 Jul 15. doi: 10.2174/1570161117666190715121939
3. Hussei EA, Zagho MM, Rizeq BR, Younes NN, **Pintus G**, Mahmoud KA, Nasrallah GK, Elzatahry AA. *Plasmonic MXene-Based Nanocomposites Exhibiting Photothermal Therapeutic Effects with Lower Acute Toxicity than Pure MXene* **Int J Nanomedicine** 2019 Jun 20;14:4529-4539. doi: 10.2147/IJN.S202208.
4. Badran A, Baydoun E, Samaha A, **Pintus G**, Mesmar J, Iratni R Issa K, Eid AH. Marjoram relaxes rat thoracic aorta via a PI3-K /Akt/eNOS/cGMP pathway. **Biomolecules.** 2019 Jun 11;9(6). pii: E227. doi: 10.3390/biom9060227.
5. Posadino AM, Giordo R, Cossu A, Nasrallah GK, Shaito A, Abou-Saleh H, Eid HA **Pintus G**. *Flavin Oxidase-induced ROS generation modulates PKC Biphasic effect of resveratrol on endothelial cell survival.* **Biomolecules** 2019 9(6), 209
6. Maaliki D, Shaito AA, **Pintus G**, El-Yazbi A, Eid AH. *Flavonoids in Hypertension: a brief review of the underlying Mechanisms.* **Curr Opin Pharmacol.** 2019 May 15;45:57-65
7. Al-Kandari H, Younes N, Al-Jamal O, Zakaria ZZ, Najar H, Alserr F, **Pintus G**, Al-Asmakh MA, Abdullah AM, Nasrallah KG. Ecotoxicological assessment of thermally- and hydrogen- reduced

- graphene oxide/TiO₂ photocatalytic nanocomposites using the zebrafish embryo model: **Nanomaterials (Basel)**. 2019 Mar 28;9(4)
8. Younes N, **Pintus G**, Al-Asmakh M, Rasool K, Younes S, Mahmoud AK, Nasrallah. KG “Safe” Chitosan Zinc Oxide Nanocomposite Has Minimal Organ-Specific Toxicity on Early Stages of Zebrafish Development. **ACS Biomaterials Science & Engineering** Feb 22, 2019. DOI: 10.1021/acsbomaterials.8b01144 2019
 9. Maamoun H, Benameur T, **Pintus G**, Munusamy S, Agouni A. *Crosstalk Between Oxidative Stress and Endoplasmic Reticulum (ER) Stress in Endothelial Dysfunction and Aberrant Angiogenesis Associated With Diabetes: A Focus on the Protective Roles of Heme Oxygenase (HO)-1*. **Front Physiol**. 2019 Feb 11;10:70. doi: 10.3389/fphys.2019.00070. eCollection 2019.
 10. Dehaini H, Awada H, El-Yazbi A, Zouein FA, Issa K, Eid A, Ibrahim M, Badran A, Baydoun E, **Pintus G**, Eid AH. *MicroRNAs as Pharmaco-targets in Ischemia-Reperfusion Injury compounded by diabetes*. **Cells**. 2019 Feb 12;8(2). pii: E152.
 11. Abu-Saleh H, Younes H, Rasool K, Younis MH, Yassine H, Mahmoud KA, **Pintus G**, Nasrallah GK. Impaired Liver Size and Compromised Neurobehavioral Activity are Elicited by Chitosan Nanoparticles in the Zebrafish Embryo Model. **Nanomaterials (Basel)**. 2019 Jan 19;9(1)
 12. Fois AG, Posadino AM, Giordo R, Cossu A, Agouni A, Rizk NM, Pirina P, Carru C, Zinellu A, and **Pintus G**. Antioxidant activity mediates pirfenidone antifibrotic effect in human pulmonary vascular smooth muscle cells exposed to sera of idiopathic pulmonary fibrosis patients. **Oxid Med Cell Longev**. 2018 Oct 21;2018:2639081. doi: 10.1155/2018/2639081.
 13. Rahman M, El Jamali A, Halade GV, Ouhtit A, Abou-Saleh H, and **Pintus G**. Nox2 activity is required in obesity-mediated alteration of bone remodeling. **Oxid Med Cell Longev**. 2018 Nov 8; 2018:6054361. doi: 10.1155/2018/6054361
 14. Wang, W., Wang, J., Zhang, G., **Pintus G**. Editorial: Arterial aging and age-related arterial diseases. **Front Genet**. 2018 Oct 19;9:444. doi: 10.3389/fgene.2018.00444
 15. Thuan DTB, Zayed H, Eid AH, Abou-Saleh H, Nasrallah GK, Mangoni AA, **Pintus G**. A potential Link Between Oxidative Stress and Endothelial-To-Mesenchymal Transition. **Front Immunol** 2018 Sep 19;9:1985 . doi: 10.3389/fimmu.2018.01985.
 16. Posadino AM, Biossa G, Zayed H, Abou-Saleh H, Cossu A, Nasrallah GK, Giordo R, Pagnozzi D, Porcu MC, Pretti L, **Pintus G**. Protective Effect of Cyclically Pressurized Solid-Liquid Extraction Polyphenols from Cagnulari Grape Pomace on Oxidative Endothelial Cell Death. **Molecules**. 2018 Aug 21;23(9). pii: E2105. doi: 10.3390/molecules23092105.
 17. Eid AH, El-Yazbi AF, Zouein F, Arredouani A, Ouhtit A, Rahman MM, Zayed H, **Pintus G**, Abou-Saleh H. Inositol 1,4,5-Trisphosphate Receptors in Hypertension. **Front Physiol**. 2018 Jul 26;9:1018. doi: 10.3389/fphys.2018.01018. eCollection 2018
 18. Abou-Saleh H, Zouein FA, El-Yazbi A, Sanoudou D, Raynaud C, Rao C, **Pintus G**, Dehaini H, Eid AH. The march of pluripotent stem cells in cardiovascular regenerative medicine. **Stem Cell Res Ther**. 2018 Jul 27;9(1):201. doi: 10.1186/s13287-018-0947-5.

19. Smatti, M.K., Al-Sadeq, D.W., Ali, N.H., **Pintus, G.**, Abou-Saleh, H., Nasrallah, G.K. Epstein-barr virus epidemiology, serology, and genetic variability of LMP-1 oncogene among healthy population: An update. **Front Oncol.** 2018 Jun 13;8:211. doi: 10.3389/fonc.2018.00211
20. **Pintus, G.** Giordo, R, Wang, Y, Zhu, W, Kim, S.H, Zhang, L, Ni, L, Zhang, Telljohann, R, McGraw, K.R, Monticone, R.E, Ferris, C, Liu, L, Wang, M, Lakatta, E.G. Reduced vasorin enhances angiotensin II signaling within the aging arterial wall. **Oncotarget.** 2018 Jun 1;9(43):27117-27132
21. Younes N, Salem R, Al-Asmakh M, Altamash T, **Pintus G**, Khraisheh M, Nasrallah GK. Toxicity evaluation of selected ionic liquid compounds on embryonic development of Zebrafish. **Ecotoxicol Environ Saf.** 2018 May 29;161:17-24
22. Zinellu A, Sotgiu E, Assaretti A, Sotgia S, Paliogiannis P, **Pintus G**, Mangoni AA, Carru C. Evaluation of global genomic DNA methylation in human whole blood by capillary electrophoresis UV detection. **J Anal Methods Chem** 2017; 2017:4065892. doi: 10.1155/2017/4065892. Epub 2017 Dec 3.
23. Sotgia S, Zinellu A, Mangoni AA, Serra R, **Pintus G**, Caruso C, Deiana L, Carru C. Cellular immune activation in Sardinian middle-aged, older adults and centenarians. **Exp Gerontol.** 2017 Oct 9;99:133-137
24. Posadino AM, Hoa PT, Cossu A, Giordo R, Fois M, Bich TT Duong, Sotgia S, Zinellu A, Carru C, **Pintus G.** Oxidative stress-induced Akt downregulation mediates green tea toxicity towards prostate cancer cells **Toxicol In Vitro.** 2017;42:255-262.
25. Sotgia S, Mangoni AA, **Pintus G**, Carru C, Zinellu A. Strategies to enhance graphic and results interpretation of a regression-based approach for method comparison studies. **Future Sci OA.** 2017 Apr 21;3(3):FSO0194.
26. Rasso G, Soddu E, Posadino AM, **Pintus G**, Sarmento B, Giunchedi P, Gavini E. Nose-to-brain delivery of BACE1 siRNA loaded in solid lipid nanoparticles for Alzheimer's therapy. **Colloids Surf B Biointerfaces.** 2017: 152, 296-301
27. Sotgia S, Mangoni AA, Forteschi M, Murphy RB, Elliot D, Sotgiu E, **Pintus G**, Carru C, Zinellu. A. Identification of the main intermediate precursor of L-ergothioneine biosynthesis in human biological specimens. In press **Molecules** 2016: 28;21(10).
28. Vono R, Fuoco C, Testa S, Pirrò S, Maselli D, Mc Collough DF, Sangalli E, **Pintus G**, Giordo R, Finzi G, Sessa F, Cardani R, Gotti A, Losa S, Cesareni G, Rizzi R, Bearzi C, Cannata S, Spinetti G, Gargioli C, Madeddu P. Activation of the Pro-Oxidant PKC β II-p66Shc Signaling Pathway Contributes to Pericyte Dysfunction in Skeletal Muscles of Diabetic Patients with Critical Limb Ischemia. **Diabetes.** 2016 Dec;65(12):3691-3704.
29. Ippolito L, Marini A, Cavallini L, Morandi A, Pietrovito L, **Pintus G**, Giannoni E, Schrader T, Puhr M, Chiarugi P, Taddei ML. Metabolic shift toward oxidative phosphorylation in docetaxel resistant prostate cancer cells. **Oncotarget** 2016: 20;7(38):61890-61904.
30. Forteschi M, Zinellu A, Assaretti S, Mangoni AA, **Pintus G**, Carru C, Sotgia S. An isotope dilution capillary electrophoresis/tandem mass spectrometry (CE-MS/MS) method for the simultaneous measurement of choline, betaine, and dimethylglycine concentrations in human plasma. **Anal Bioanal Chem.** 2016 Oct;408(26):7505-12.

31. Margarita V, Rappelli P, Dessì D, **Pintus G**, Hirt RP, Fiori PL Symbiotic Association with *Mycoplasma hominis* Can Influence Growth Rate, ATP Production, Cytolysis and Inflammatory Response of *Trichomonas vaginalis*. **Front Microbiol.** 2016 Jun 20;7:953
32. Sotgia S, Arru D, Sotgiu E, Mangoni AA, Forteschi M, **Pintus G**, Carru C, Zinellu A. Simultaneous determination of the main amino thiol and thione in human whole blood by CE and LC. **Bioanalysis.** 2016 May;8(9):945-51.
33. Rizzi F, Trougakos IP, **Pintus G**, and Sykiotis, GP. Redox Status and Proteostasis in Ageing and Disease. **Oxid Med Cell Longev.** 2016;2016:7476241
34. Manunta AF, Zedde P, Cudoni S, Caggiari G, **Pintus G**. Early joint degeneration and antagonism between growth factors and reactive oxygen species. Is non-surgical management possible? **Joints.** 2016 Jan 28;3(3):123-8
35. Bacci M, Giannoni E, Fearnas A, Ribas R, Gao Q, Taddei ML, **Pintus G**, Dowsett M, Isacke CM, Martin LA, Chiarugi P, Morandi A. miR-155 drives metabolic reprogramming of ER+ breast cancer cells following long-term estrogen deprivation and predicts clinical response to aromatase inhibitors. **Cancer Res.** 2016 Mar 15;76(6):1615-26
36. Zinellu A, Fois AG, Sotgia S, Zinellu E, Bifulco F, **Pintus G**, Mangoni AA, Carru C, Pirina P. Plasma protein thiols: an early marker of oxidative stress in asthma and chronic obstructive pulmonary disease. **Eur J Clin Invest.** 2016 Feb;46(2):181-8
37. Zinellu A, Sotgia S, Scanu B, Arru D, Cossu A, Posadino AM, Giordo R, Mangoni AM, **Pintus G**, Carru C. N- and S-homocysteinylation reduce the binding of human serum albumin to catechins. **Eur J Clin Nutr** 2015 Dec 10. [Epub ahead of print]
38. Sotgia S, Zinellu A, Arru D, Nieddu S, Strina A, Ariu F, **Pintus G**, Carru C, Bogliolo L, Ledda S: Amniotic fluid L-ergothioneine concentrations in pregnant sheep after natural mating and transfer of vitrified/thawed in-vitro produced embryos. **Res Vet Sci** 2015; 102:238-241
39. Zinellu A, Sotgia S, Scanu B, Forteschi M, Giordo R, Cossu A, Posadino AM, Carru C, **Pintus G**. Human serum albumin increases the stability of green tea catechins in aqueous physiological conditions. **PlosONE** 2015; 10(7):e0134690.
40. Sotgia S, Zinellu A, Pisanu E, Vlahopoulou G, Ariu F, Ledda S, **Pintus G**, Carru C, Bogliolo L. Concentrations of L-ergothioneine in follicular fluids of farm animals. **Comp Clin Path** 2015; 24(5):1261-1265
41. Posadino AM, Cossu, A, Giordo, R; Zinellu, A; Sotgia, S; Vardeu, A; Phu TH; Nguyen LH; Carru C; **Pintus, G**. Resveratrol alters human endothelial cells redox state and causes mitochondrial-dependent cell death. **Food Chem Toxicol.** 2015; 78:10-16.
42. Floris I, Descamps B, Vardeu A, Mitić T, Posadino AM, Shantikumar S, Sala-Newby G, Capobianco G, Mangialardi G, Howard L, Dessole S, Urrutia R, **Pintus G**, Emanuelli C. Gestational Diabetes Mellitus Impairs Fetal Endothelial Cell Functions Through a Mechanism Involving MicroRNA-101 and Histone Methyltransferase Enhancer of Zester Homolog-2. **Arterioscler Thromb Vasc Biol.** 2015; 35(3):664-674

43. Zinellu A, Sotgia S, Scanu B, Pisanu E, Giordo R, Cossu A, Posadino AM, Carru C, **Pintus G**. Evaluation of non-covalent interactions between serum albumin and green tea catechins by affinity capillary electrophoresis. *J Chromatogr A*. 2014; 1367:167-71
44. Boin F, Erre GL, Posadino AM, Cossu A, Giordo RT, Spinetti G, Passiu G, Emanuelli C, **Pintus G**. Oxidative stress-dependent activation of collagen synthesis is induced in human pulmonary smooth muscle cells by sera from patients with scleroderma-associated pulmonary hypertension. *Orphanet J Rare Dis*. 2014; 1;9:123.
45. Sotgia S, Pisanu E, Cambedda D, **Pintus G**, Carru C, Zinellu A. Ultra-performance Liquid Chromatographic Determination of L-ergothioneine in Commercially Available Classes of Cow Milk. *J Food Sci*. 2014;79(9):C1683-7.
46. Taddei ML, Cavallini L, Comito G, Giannoni E, Folini M, Marini A, Gandellini P, **Pintus G**, Raspollini MR, Zaffaroni N, Chiarugi P. Senescent stroma promotes prostate cancer progression: the role of miR-210. *Mol Oncol*. 2014 ;8(8):1729-46.
47. Forteschi M, Sotgia S, **Pintus G**, Zinellu A, Carru C. Simultaneous determination of citrulline and arginine in human blood plasma by capillary electrophoresis with UV absorption detection. *J Sep Sci*. 2014; 37(17):2418-23.]
48. Sotgia S, Zinellu A, Mangoni AA, **Pintus G**, Attia J, Carru C, McEvoy M. Clinical and biochemical correlates of serum L-ergothioneine concentrations in community-dwelling middle-aged and older adults. *PLoS One*. 2014; 9(1):e84918.
49. Sotgia S, Pisanu E, **Pintus G**, Erre GL, Pinna GA, Deiana L, Carru C, Zinellu A. Plasma L-ergothioneine measurement by high-performance liquid chromatography and capillary electrophoresis after a pre-column derivatization with 5-iodoacetamidofluorescein (5-IAF) and fluorescence detection. *Plos ONE* 2013;8 (7) e70374
50. Giordo R, Cossu A, Pasciu V, Hoa PT, Posadino AM, **Pintus G**. Different redox response elicited by naturally occurring antioxidants in human endothelial cells. *Open Biochem J*. 2013 Apr 19;7:44-53.
51. Fiaschi T, Giannoni E, Taddei ML, Cirri P, Marini A, **Pintus G**, Nativi C, Richichi B, Scozzafava A, Carta F, Torre E, Supuran CT, Chiarugi P. Carbonic anhydrase IX from cancer-associated fibroblasts drives epithelial-mesenchymal transition in prostate carcinoma cells. *Cell Cycle*. 2013 Jun 1;12(11):1791-801
52. Posadino AM, Cossu A, Giordo R, Zinellu A, Sotgia S, Vardeu A, Hoa PT, Deiana L, Carru C, **Pintus G**. Coumaric acid induces mitochondrial damage and oxidative-mediated cell death of human endothelial cells *Cardiovasc Toxicol*. 2013 Sep;13(3):301-6.
53. Spinetti G, Fortunato O, Caporali A, Meloni M, Floris I, Descamps B, Marchetti M, Sangalli E, Faglia E, Specchia C, **Pintus G**, Madeddu P, and Emanuelli C. MicroRNA-15a and microRNA-16 Limit the Functional Capacities of Human Circulating Pro-Angiogenic Cells (PACs) and are Increased in the PACs and Serum of Patients with Critical Limb Ischemia. *Circ. Res*. 2013;112(2):335-4.
54. Sotgia S, Zinellu A, **Pintus G**, Pinna GA, Deiana L, Carru C. Quantification of L-ergothioneine in whole blood by hydrophilic interaction ultra-performance liquid chromatography and UV-detection. *J Sep Sci*. 2013 Mar;36(6):1002-6

55. Cossu A, Posadino AM, Giordo R, Emanuelli C, Sanguinetti AM, Piscopo A, Poiana M, Capobianco G, Piga A, **Pintus G**. Apricot melanoidins prevent oxidative endothelial cell death by counteracting mitochondrial oxidation and membrane depolarization. *PloS ONE*, 2012;7(11):e48817
56. Posadino AM, Porcu MC, Marongiu B, Cossu A, Piras A, Porcedda S, Falconieri D, Cappuccinelli A, Biosa G, **Pintus G**, Pretti L. Antioxidant activity of supercritical carbon dioxide extracts of *Salvia desoleana* on two human endothelial cell models. *Food Res Int* 2012; 46: 354–359
57. Vanna S, **Pintus G**, Bandiera P, Anedda R, Punzoni S, Sanna B, Migaleddu V, Uzzau S, Sechi M. Development of polymeric microbubbles targeted to prostate-specific membrane antigen as novel ultrasound contrast agents. *Mol Pharm* 2011;8:748-57.
58. Posadino AM, Cossu A, Piga A, Madrau MA, Del Caro A, Colombino M, Paglietti B, Rubino S, Iaccarino C, Crosio C, Sanna B, **Pintus G**. Prune melanoidins protect against oxidative mitochondrial damage and endothelial cell death. *Front Biosci (Elite Ed)* 2011; 3: 1034-1041
59. Carru C, Pasciu V, Sotgia S, Zinellu A, Nicoli MC, Deiana L, Tadolini B, Sanna B, Masala B, **Pintus G**. The Oxidative State of LDL is the Major Determinant of Anti/Prooxidant Effect of Coffee on Cu²⁺ Catalysed Peroxidation. *Open Biochem J*. 2011; 5: 1-8
60. Sanna V, Roggio AM, Posadino AM, Cossu A, Marceddu S, Mariani A, Alzari V, Uzzau S, **Pintus G**, Sechi M. Novel Docetaxel-loaded nanoparticles based on poly (lactide-co-caprolactone) and poly(lactide-co-glycolide-co-caprolactone) for prostate cancer treatment: formulation, characterization and cytotoxicity studies. *Nanoscale Res Lett*. 2011; 6: 260-269
61. Sanna V, **Pintus G**, Roggio AM, Punzoni S, Posadino AM, Arca A, Marceddu S, Bandiera P, Uzzau S, Sechi M. Targeted Biocompatible Nanoparticles for the Delivery of (-)-Epigallocatechin-3-Gallate to Prostate Cancer Cells. *J Med Chem*. 2011; 54(5):1321-1332
62. Zinellu A, Sotgia S, Usai MF, **Pintus G**, Deiana L, Carru C. Improved method for plasma ADMA, SDMA, and arginine quantification by field-amplified sample injection capillary electrophoresis UV detection. *Anal Bioanal Chem*. 2011; 399(5): 1815-1821.
63. A Antocchia, E. Argazzi, M. Balata, R. Bedogni, F. Berardinelli, G. Bisogni, M. Bono, U. Bottigli, A. Brunetti, A. Buttafava, G. Castellani, F. Centis, W. Cesarini, R. Cherubini, Annalisa Cossu, G. Cugia, M. Dattena, V. De Nadal, Daniele Dondi, A. Esposito, A. Faucitano, P. L. Fiori, E. Fusco, S. Gerardi, M. Laubenstein, A. Lucarini, M. Marengo, G. L. Masala, D. Nieri, S. Nisi, F. Picardi, **G. Pintus**, Anna Maria Posadino, P. Randaccio, D. Remondini, A. Sgura, S. Stramigioli, C. Tanzarella, M. Valentini, L. Zamai, G. Zini, I. Zironi: Low-dose effects of ionizing radiations in in vitro and in vivo biological systems: A multi-scale approach study. *Nuovo Cimento* 2011; 34(1):49-63.
64. Pasciu V, Posadino AM, Cossu A, Sanna B, Tadolini B, Gaspa L, Marchisio A, Dessole S, Capobianco G, **Pintus G**. Akt down regulation by flavin oxidase-induced ROS generation mediates dose-dependent endothelial cell damage elicited by natural antioxidants. *Toxicol Sci*. 2010;114(1):101-12.
65. Fu Z, Wang M, Gucek M, Zhang J, Wu J, Jiang L, Monticone RE, Khazan B, Telljohann R, Mattison J, Sheng S, Cole RN, Spinetti G, **Pintus G**, Liu L, Kolodgie FD, Virmani R, Spurgeon H, Ingram DK, Everett AD, Lakatta EG, and Van Eyk JE. Milk Fat Globule Protein-Epidermal Growth Factor-8: a Pivotal Relay Element within the Angiotensin II and Monocyte Chemoattractant Protein-1

- Signaling Cascade Mediating Vascular Smooth Muscle Cells Invasion. *Circ Res* 2009; 104:1337-1346.
66. Zinellu A, Sotgia S, Scanu B, **Pintus G**, Posadino AM, Cossu A, Deiana L, Sengupta S, and Carru C. S-homocysteinylated LDL apolipoprotein B adversely affects human endothelial cells in vitro. *Atherosclerosis* 2009; 206: 40-46.
67. Jiang L, Wang M, Zhang J, Monticone RE, Telljohann R, Spinetti G, **Pintus G**, Lakatta EG. Increased aortic calpain-1 activity mediates age-associated angiotensin II signaling of vascular smooth muscle cells. *PLoS ONE*. 2008; 3(5): e2231.
68. Wang M, Zhang J, Jiang LQ, Spinetti G, **Pintus G**, Monticone R, Kolodgie FD, Virmani R, Lakatta EG. Proinflammatory Profile Within the Grossly Normal Aged Human Aortic Wall. *Hypertension*. 2007; 50: 219-227.
69. Wang M, Zhao D, Spinetti G, Zhang J, Jiang L, **Pintus G**, Monticone R, and Lakatta EG. Matrix Metalloproteinase II Activation of TGF- β 1 and TGF- β RII Signaling within the Aged Arterial Wall. *Arterioscler Thromb Vasc Biol*. 2006; 7: 1503-1509.
70. Wang M, Zhang J, Spinetti G, Jiang L, Monticone R, Zhao D, Cheng L, Krawczyk M, Talan M, **Pintus G**, and Lakatta EG. Angiotensin II Activates Metalloproteinase Type II and Mimics Age-Associated Carotid Arterial Remodeling in Young Rats. *Am J Pathol*. 2005; 167: 1429-1442.
71. Carru C, Zinellu A, Sotgia S, Serra R, Usai M F, **Pintus G**, Pes G M, Deiana L. A new HPLC method for serum neopterin measurement and relationships with plasma thiols levels in healthy subjects. *Biomed. Chromatogr*. 2004; 18: 360-366.
72. **Pintus G**, Tadolini B, Posadino AM, Sanna B, Debidda M, Carru C, Deiana L, Ventura C. PKC/Raf/MEK/ERK Signaling Pathway Modulates Native-LDL-induced E2F-1 gene expression and endothelial cell proliferation. *Cardiovasc. Res*. 2003; 59: 934-944.
73. Debidda M, Sanna B, Cossu A, Posadino AM, Tadolini B, Ventura C, **Pintus G**. NAMI-A inhibits the PMA-induced ODC gene expression in ECV304 cells: Involvement of PKC/Raf/Mek/ERK signaling pathway. *Int. J. Oncol*. 2003; 23: 477-482.
74. **Pintus G**, Tadolini B, Posadino AM, Sanna B, Debidda M, Bennardini F, Sava G, Ventura C. Inhibition of the MEK/ERK signaling pathway by the novel antimetastatic agent NAMI-A down regulates c-myc gene expression and endothelial cell proliferation. *Eur J Biochem*. 2002; 269: 5861-5870.
75. Sanna B, Debidda M., **Pintus G.**, Tadolini B., Posadino A. M., Bennardini F., Sava G. and Ventura, C. The anti-metastatic agent imidazolium trans-imidazoledimethylsulfoxide-tetrachlororuthenate induces endothelial cell apoptosis by inhibiting the mitogen-activated protein kinase/extracellular signal-regulated kinase signaling pathway. *Arch. Biochem. Biophys*. 2002; 403: 209-218.
76. Emanuelli C, Salis MB, Stacca T, **Pintus G**, Kirchmair R, Isner JM, Pinna A, Gaspa L, Regoli D, Cayla C, Pesquero JB, Bader M, Madeddu P. Targeting kinin B(1) receptor for therapeutic neovascularization. *Circulation*. 2002; 105:360-366.
77. Ventura C., Maioli M., **Pintus G.**, Gottardi G., Bersani F. EFL-pulsed magnetic fields modulated opioid peptide gene expression in myocardial cells. *Cardiovasc. Res*. 2000; 45: 1054-1064.

78. Ventura C., **Pintus G.**, Maioli M. Sarcoplasmic reticulum Ca²⁺-ATPase gene expression to the rescue of myocardial contractility in hypothyroid associated heart failure. *Cardiovasc. Res.*, 1999; 43: 282-284.
79. **Pintus G.**, Tadolini B., Maioli M., Posadino AM., Gaspa L., and Ventura C: Heparin Down-regulates Phorbol Ester-induced Protein Kinase C (PKC) Gene Expression in Human Endothelial Cells: Enzyme-mediated Autoregulation of PKC- α and - β Genes. *FEBS Lett* 1999; 449: 135-140.
80. Ventura C., Maioli M., **Pintus G.**, Posadino AM., Tadolini B. Nuclear opioid receptor activate opioid peptide gene transcription in isolated myocardial nuclei. *J. Biol. Chem.* 1998; 273: 13383-13386.
81. Ventura C., **Pintus G.**, Tadolini B. Opioid peptide gene expression in myocardial cell. *Trend Cardiovasc. Med.* 1998; 8: 102-110.
82. **Pintus G.**, Tadolini B., Maioli M., Posadino A, Bennardini F., Bettuzzi S., Ventura C. Heparin inhibits phorbol ester-induced Ornithinedecarboxylase gene expression in endothelial cell. *FEBS Lett.* 1998; 423: 98-104.
83. Ventura C., **Pintus G.** Opioid peptide gene expression in the primary hereditary cardiomyopathy of the Syrian hamster. Part III: Autocrine stimulation of prodynorphin gene expression by dynorphin B. *J. Biol. Chem.* 1997; 272: 6699-6705.
84. Ventura C., **Pintus G.**, Tadolini B. Opioid peptide gene expression in the primary hereditary cardiomyopathy of the Syrian hamster. Part II: Role of intracellular calcium loading. *J. Biol. Chem.* 1997; 272: 6693-6698.
85. Ventura C., **Pintus G.**, Fiori M.G., Bennardini F., Pinna G., Gaspa L. Opioid peptide gene expression in the primary hereditary cardiomyopathy of the Syrian hamster. Part I: Regulation of prodynorphin gene expression by nuclear protein kinase C. *J. Biol. Chem.* 1997; 272: 6685-6692.
86. Ventura C., **Pintus G.**, Vaona I., Bennardini F., Pinna G., Tadolini B. Phorbol ester regulation of opioid peptide gene expression in myocardial cells: Role of nuclear protein kinase C. *J. Biol. Chem.* 1995; 270: 30115-30120.
87. Tadolini B., **Pintus G.**, Pinna GG., Bennardini F., Franconi F. Effect of taurine and hypotaurine on lipid peroxidation. *Biochem. Biophys. Res. Commun.* 1995; 213: 820-826.
88. **Pintus G.**, Pinna GG., Ventura C. Evaluation of opioid peptide gene expression by solution hybridization RNase protection. *J. Biol. Res.* 1994; 8-9: 213-219.
89. Ventura C., Guarnieri C., Vaona I., Campana G., **Pintus G.**, Spampinato S. Dynorphin gene expression and release in the myocardial cell. *J. Biol. Chem.* 1994; 269: 5384-5386.
90. Deidda P., Tekle,Z., Nieddu G., **Pintus G.**, Pinna GG., Sisini A. Polyamine levels in the C.A.M plant *Opuntia Ficus Indicas* (Miller). *Aminoacid.* 1994; 7: 203-209.

Conference Proceedings

1. Giordo R, Al-Korbi HA, Abdulkader HA, Cossu A, Posadino AM, Nasrallah GK, **Pintus G.** Resveratrol counteracts oxidative stress and EndoMT elicited by high glucose in human

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- endothelial cells. 1st Immunology & Inflammation (I & I) Conference. February 24th - 26th 2019, Berlin, Germany
2. Giordo R, Al-Korbi HA, Abdulkader HA, Cossu A, Posadino AM, Nasrallah GK, **Pintus G**. Resveratrol counteracts oxidative stress and endothelial to mesenchymal transition elicited by high glucose in human retinal endothelial cells. The 4th World Academic Congress of Emergency Medicine WACEM 2018, Doha, Qatar. 1 - 4 November 2018"
 3. **Pintus G**, Giordo R, Mohamed AA, Mohamed Kotb YA, Annalisa C, Posadino AM. Resveratrol-mediated modulation of intracellular ROS levels elicits a biphasic effect on PKC activity and endothelial cells survival. The 5th Middle East Molecular Biology Congress and Exhibition 2018 – Jordan, King Hussein Bin Talal Convention Centre (Dead Sea), 3rd Oct to 6th Oct.
 4. M Bacci, M Ferracin, M Ramazzotti, LA Martin, **G Pintus**, P Chiarugi, A Morandi. Integration of gene expression and miRNAs reveals amino acid metabolism as key metabolic hub of adaptation to long term oestrogen deprivation in ER plus breast cancer cells. European Journal of Cancer. 2017, 61: S1; S45-S45 Meeting Abstract: 247 - 24th Biennial EACR Congress. 9-12 July 2016 Manchester
 5. M Wang, **G Pintus**, R Giordo, J Zhang, L Jiang, R Monticone, E Lakatta Age-associated Imbalance of Vasorin/TGF- β 1 Signaling in VSMC Facilitates Collagen Production. Circulation Research 115 (Suppl 1), A48-A48 (2014)
 6. F Boin, AM Posadino, A Cossu, R Giordo, AA Shah, G Spinetti, GL Erre, C Emanuelli, G Passiu, Wigley FM, **Pintus G**. Oxidative Stress-Dependent Activation of Collagen Synthesis Is Induced In Human Pulmonary Vascular Smooth Muscle Cells By Scleroderma Sera and Predicts Pulmonary Vascular Disease ARTHRITIS AND RHEUMATISM 65, S284-S284 (2013)
 7. I Floris, **G Pintus**, AM Posadino, G Mangialardi, G Capobianco, C Emanuelli. Phenotypic characterisation and molecular changes induced by gestational diabetes mellitus (GDM) on human umbilical endothelial cells: focus on the KDM2B/miR-101/EZH2 pathway FEBS JOURNAL 280, 556-556 (2013)
 8. F Boin, AM Posadino, A Cossu, R Giordo, G Spinetti, GL Erre, G Passiu, F Wigley, C Emanuelli, **G Pintus**. Scleroderma sera induce reactive oxygen species (ROS)-dependent activation of collagen synthesis in human pulmonary vascular smooth muscle cells. FEBS JOURNAL 280, 456-456 (2013)
 9. A Marini, ML Taddei, L Cavallini, V Farini, S Stinziani, P Paoli, **G Pintus**, P Chiarugi. Reverse Warburg'phenotype and PK-M2: regulation of pentose phosphate pathway and implications for chemoresistance. FEBS JOURNAL 280, 557-557 (2013)
 10. GL Erre, A Cossu, D Chessa, AM Posadino, R Giordo, F Boin, G Passiu, **G Pintus**. Exposure of human pulmonary vascular smooth muscle cells to sera from patients with systemic sclerosis increases intracellular reactive oxygen species levels. FEBS JOURNAL 279, 220-220 (2012)

Gianfranco Pintus Curriculum Vitae

11. AM Posadino, A Cossu, C Porcu, R Cappuccinelli, G Biosa, L Pretti, **G Pintus**. Anti-oxidant and anti-migration activity of supercritical carbon dioxide extracts of Pistacia lentiscus L. on human endothelial cells. *FEBS JOURNAL* 279, 404-404 (2012)
12. A Cossu, AM Posadino, R Giordo, AM Sanguinetti, A Piscopo, M Poiana, A Marchisio, G Capobianco, A Piga, G Pintus. Protective effects of melanoidins derived from dried apricots on oxidative damage and mitochondrial-dependent endothelial cell death. *FEBS JOURNAL* 279, 402-402 (2012)
13. AM Posadino, L Pretti, A Cossu, C Porcu, G Biosa, R Cappuccinelli, **G Pintus**. Antioxidant effects of Cagnulari grape marc extracts on two human endothelial cell models. *FEBS JOURNAL* 279, 404-404 (2012)
14. A Cossu, AM Posadino, A Piga, MA Madrau, AD Caro, M Colombino, B Paglietti, S Rubino, C Iaccarino, C Crosio, R Giordo, G Pintus. Prune melanoidins protect endothelial cell against oxidative stress and mitochondria-mediated cell death. *FEBS JOURNAL* 278, 392-392 (2011)
15. AM Posadino, A Cossu, MC Porcu, B Marongiu, A Piras, S Porcedda, D Falconieri, R Cappuccinelli, G Biosa, L Pretti, **G Pintus**. Supercritical fluid extraction of salvia desoleana extract and its antioxidant activity on H₂O₂-induced oxidative damage in human endothelial cells. *FEBS JOURNAL* 278, 401-401 (2011)
16. S Punzoni, V Sanna, P Bandiera, A Montella, S Uzzau, M Sechi, **G Pintus**: Oxidative stress and mitochondria damage contribute to silica nanoparticle-induced cytotoxicity in human endothelial cells. *J Biol Res (Thessalon)*. 2010; 83(1) Punzoni
17. A Cossu, AM. Posadino, V Pasciu, G Gasparetti, S Delogu, B Sanna, **G Pintus**: Akt down regulation by CYP2C9-induced ROS generation mediate mitochondrial-dependent endothelial cell death elicited by natural antioxidants. *J Biol Res (Thessalon)*. 2010; 83(1).
18. C Carru, A Zinellu, S Sotgia, B Scanu, M Sanna, E Pisanu, **G Pintus**, AM Posadino, A Cossu, B Sanna, L Deiana S-homocysteinylation of LDL dose-dependently induce oxidative stress and cell damage in human endothelial cells. *FEBS Journal* 276, 304-304 (2009)
19. F Rizzi, F Marco, **G Pintus**, S Bettuzzi. Development of a green fluorescent reporter for the bio-assay of anti-cancer drugs with anti-oxidant activity. *FEBS Journal* 276, 385-385 (2009)
20. **G Pintus**, V Pasciu, AM Posadino, A Cossu, B Tadolini, L Gaspa, A Marchisio, S Dessole, G Capobianco, B Sanna. Akt down regulation by CYP2C9-induced ROS generation mediate dose-dependent cell damage elicited by natural antioxidants in human endothelial cells. *FEBS Journal* 276, 248-248 (2009)
21. LQ Jiang, M Wang, J Zhang, G Spinetti, RE Monticone, **G Pintus**, EG Lakatta. Aortic calpain-1 increases with aging, activates matrix metalloproteinase ii, and promotes vascular smooth muscle cell migration. *Circulation* 114 (18 Supplement), II_279 (2006)
22. M Wang, J Zhang, R de Cabo, LQ Jiang, G Spinetti, **G Pintus**, R Monticone, DK Ingram, EG Lakatta. Calorie restriction reduces MMP-2 activity and retards age-associated aortic restructuring in rats. *Circulation* 114 (18 Supplement), II_335 (2006)

23. MY Wang, D Zhao, G Spinetti, J Zhang, LQ Jiang, **G Pintus**, RE Monticone, EG Lakatta. MMP2 activates TGF-beta 1 and augments T beta RII signaling within the aged arterial wall: Relevance to matrix deposition with aging. **Circulation** 112 (17), U165-U166 (2005)
24. A Posadino, V Pasciu, G Sava, **G Pintus**, B Tadolini, A Cossu. Study on ecv304 cell apoptosis induced by NAMI-A. **Italian Journal of Biochemistry** 54 (1/2), 2 (2005)
25. AM Posadino, **G Pintus**, I Ruiu, A Cossu, B Tadolini. Bifasic effects of resveratrol on the proliferation of human endothelial cells. **Italian Journal of Biochemistry** 52 (3), 2.35-2.35 (2003)
26. **G Pintus**, B Tadolini, AM Posadino, B Sanna, M Debidda, F Bennardini, A Bergamo, G Sava, C Ventura. MAPK signaling pathway in the control of endothelial cell proliferation. **Italian Journal of Biochemistry** 52 (3), R. 31-R. 31 (2003)
27. Sava G, Bergamo A, Cocchietto M, Flaibani A, Gava B, **Pintus G**, Sorc A, Tadolini B, Ventura C, Zorzet S. Interaction of NAMI-A with the regulation of cell cycle progression of tumour cells. **Clin Cancer Res** 2000; 6: 4566S-4567S.
28. AM Posadino, B Tadolini, **G Pintus**, M Maioli, GG Pinna, S Bettuzzi, S Milia, C Ventura. Involvement of a PKC Dependent Pathway in the Inhibition of ODC Activity and its Gene Expression by Heparin in Huvec. **Italian Journal of Biochemistry** 48, 104-104 (1999)
29. G Pintus, B Tadolini, M Maioli, AM Posadino, GG Pinna, S Bettuzzi, S Milia, C Ventura. Inhibition of Serum-and Phorbol Ester-Induced Odc Gene Expression by Heparin in Huvecs. **Italian Journal of Biochemistry** 48, 45-45 (1999)
30. **G Pintus**, B Tadolini, AM Posadino, C Carru, G Pes, L Deiana, C Ventura. Native low density lipoproteins increase proliferating cell nuclear antigen (PCNA) and CDC2 expression in human endothelial: Involvement of a protein kinase C-dependent pathway. **Clinical Chemistry and Laboratory Medicine**, S113 (1999)
31. F Bennardini, F Franconi, C Ventura, GF Pintus, D Benetti, M Mian. The phosphorylation pattern of α B-crystallin and heat shock protein 25 (HSP25) in cultures of bovine articular chondrocytes is modified by anti-inflammatory drugs. **Fundamental and Clinical Pharmacology** 2 (10), 164 (1996)
32. GG Pinna, **GF Pintus**, A Naitana, C Ventura. Transglutaminase Activity and Polyamine Levels in Diabetic Erythrocytes. **Italian Journal of Biochemistry** 44, 70A-70A (1995)
33. B Tadolini, G Pintus, GG Pinna, F Bennardini, F Franconi Taurine and Hypotaurine Influence on Lipid Peroxidation. **Italian Journal of Biochemistry** 44, 407A-407A (1995)
34. F Bennardini, C Juliano, **G Pintus**, C Ventura, A Mattana, D Benetti, M Mian, F Franconi. alpha-Crystallin Expression in Different Cell Types: A Unifying Theory. **Italian Journal Of Biochemistry** 44, 401A-401A (1995)
35. GG Pinna, M Maioli, G Sechi, **GF Pintus**. Polyamine Levels in Erythrocytes from Patients with Insulin Dependent and Non Insulin Dependent Diabetes Mellitus. **Italian Journal of Biochemistry** 42, 282A-282A (1993)

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