

## Gianluigi Condorelli



## Curriculum Vitae

### Index:

- 1.-Personal information
- 2.-Education (degree, specialization, doctorate)
- 3.-Accademic and professional posts held in Italy and abroad (research, tenures, etc)
- 4.-Lecturing activity
- 5.-Awards
- 6.-Projects financed by national and international agencies (public and private)
- 7.-Organization of non-profit formative activities and international congresses
- 8.-Editorial and refereeing activities for international journals and research projects
- 9.-National and international references (personal and professional)
- 10.-Research output
  - 10.1.-Main lines of research
  - 10.2.-Bibliometrics
  - 10.3.-List of published articles, including reviews and editorials, with an impact factor.
  - 10.4.-List of published book chapters
  - 10.5.-Main invited lectures at international conferences and seminars
  - 10.6.-Patents

## 1.- PERSONAL INFORMATION

Name and Surname	Gianluigi CONDORELLI
Nationality	[REDACTED]
Work address	[REDACTED]
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ORCHID n.	[REDACTED]
Telephone n.	[REDACTED]
Cell phone n.	[REDACTED]
E-mail	[REDACTED]
Degree	Medicine
Specialization	Cardiology
Doctorate	Cardiovascular Sciences
Current position	Professor of Cardiology, Humanitas University; Head, Cardiovascular Department and Head, Cardiovascular Research, Humanitas Research Hospital
Orchid ID	<u>0000-0003-0481-6843</u>
Researcher ID	Q-6736-2017

## 2.- EDUCATION

1987	Summer student, Molecular Disease Branch, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda (MD).
1988	Summer Student, Cardiovascular Research Center, The New York Hospital, Cornell University Medical College, New York (NY).
1989	Degree in Medicine with 110/110 cum laude and special mention and recommendation for publication, University of Naples "Federico II".
1989	Full license to practice medicine in EU.
1990	Certification by the Educational Commission for Foreign Medical Graduates (USA).
1990-92	Research Associate, Dept. of Cardiology, Children's Hospital, Dept. of Cellular and Molecular Physiology, Harvard Medical School; Research Associate, Howard Hughes Medical Institute, Children's Hospital, Harvard Medical School.
1993	Ph.D. in Cardiovascular Physiopathology, 2 <sup>nd</sup> University of Rome "Tor Vergata"
1997	Specialization in Cardiology with 50/50 cum laude, 2 <sup>nd</sup> University of Naples.

### **3.-PROFESSIONAL AND ACCADEMIC POSITIONS**

- 1996-1999      Research Scientist in Clinical Pathology (F04B), Dept. of Pathology and Experimental Medicine, University of Rome "La Sapienza".
- 1998-2002      Assistant Professor, Kimmel Cancer Center, Dept. of Microbiology and Immunology, Jefferson Medical College of Thomas Jefferson University, Philadelphia (PA).
- 2000             Associate Professor of Internal Medicine (MED09), 2<sup>nd</sup> Medical School of the University of Rome "La Sapienza".
- 2001-06         Level I Medical Officer, Sant'Andrea Hospital, 2<sup>nd</sup> Medical School of the University of Rome "La Sapienza".
- 2002-06         Scientific Coordinator of the Laboratory of Molecular Cardiology, Fondazione Parco Scientifico Biomedico San Raffaele, Rome.
- 2003-05         Associate Research Scientist (Italian equiv.: Professore Associato), Institute of Molecular Medicine, UCSD, La Jolla (CA).
- 2005-06         Scientific Director, IRCCS MultiMedica, Sesto San Giovanni (MI).
- 2006-09         Associate Professor, Division of Cardiology, Department of Medicine, UCSD, La Jolla (CA)
- 2006-2012      Director, Department of Medicine, National Research Council of Italy
- 2008-12         Full Professor, University of Milan "Bicocca"
- 2009-12         Adjunct Full Professor of Medicine, University of California San Diego, La Jolla, CA
- 2012-13         Coordinator, Dept. of Biomedical Sciences, National Research Council of Italy.
- 2012-15         Professor of Medicine, University of Milan "Statale"; Director of Cardiovascular Research, Humanitas Research Hospital, Rozzano (MI).
- 2013-             Honorary Professor, Chair of Molecular Cardiology, University of Leicester, UK
- 2015-             Head, Department of Cardiovascular Medicine and Director of Cardiovascular Research, Humanitas Research Hospital, Milan, Italy
- 2015-             Professor of Cardiology, Humanitas University, Milan, Italy
- 2016-             Director, Post-graduate School of Cardiology, Humanitas University, Milan Italy

2017- Director, Milan Unit, Institute of Genetics and Biomedical Research, National Research Council of Italy, Milan, Italy

**4.- TEACHING ACTIVITY**

- 1996-01 Lecturer in General Pathology, university diploma courses for health professionals, University of Rome "La Sapienza", Molise site.
- 1999 Assistant Professor supervising researchers in oncological, hematological, and molecular genetic fields, Thomas Jefferson University.
- 1998-01 Lecturer in Molecular Biology, School of Specialization in Medical Oncology, University of Rome "La Sapienza".
- 2000-04 Lecturer in Internal Medicine, medical degree course, 2<sup>nd</sup> School of Medicine of the University of Rome "La Sapienza".
- 2001-2003 Coordinating Lecturer in Internal Medicine, specialized degree course in Medical Biotechnology, University of Rome "La Sapienza".
- 2003 Lecturer in Human Pathology, PhD courses, University of Rome "La Sapienza".
- 2001-04 Lecturer in Internal Medicine, Schools of Specialization in Internal Medicine, Cardiology, Orthopedics, and Sports Medicine, 2<sup>nd</sup> School of Medicine of the University of Rome "La Sapienza".
- 2002-06 Coordinator, 1<sup>st</sup> semester, 5<sup>th</sup> year, degree course in Medical Biotechnology.
- 2005-10 Lecturer in Organ Physiology (Heart), medical degree course, University of California San Diego.
- 2006-08 Lecturer, medical degree course, University of Rome "La Sapienza" (cardiovascular medicine).
- 2008-2011 Lecturer, integrative activity, University of Milan Bicocca (cardiovascular medicine).
- 2012-15 Lecturer, system disease (cardiology), University of Milan
- 2012-15 Lecturer, Systems disease and Cardiology course, Humanitas University

**Current teaching activities:**

I am currently full professor of cardiology and teach this subject at the international course of medicine of Humanitas University. I also teach at the post-graduate school of cardiology of the Humanitas University and PhD courses. I am in charge of the post-graduate training of specialists in cardiology at Humanitas Research Hospital, Humanitas University. The number of post-graduate specialty fellows is 4 per year.

**5.- AWARDS and FELLOWSHIPS**

1991	Overseas Study Grant for Young Postgraduates, Italian National Research Council.
1991	Study grant, Howard Hughes Medical Institute.
1993	Visiting Scientist, The Fels Institute, Temple University, Philadelphia (PA).
1995	"Fogarthy" Travelship Award, US Dept. of State.
1995	"Cecilia Cioffrese" Award for Young Investigators in Oncology, Fondazione Carlo Erba.
1996	Young Investigator Award, Italian Society of Internal Medicine.
2002	Drug NCX-899 (NO-Enalaprilat), NicOx (licensed to MerckSharp & Dohme).
2004	Award for Cardiovascular Research, Fondazione Eleonora Lorillard-Spencer Cenci
2005	"Arcinazze Romano" Award.
2008	"Valsalva" Award for Research, Italian Society of Cardiovascular Research.
2009	"Universum Interazionale" Award.
2010	Outstanding Achievement Award, European Society of Cardiology. -Scuola Medica Salernitana" Award, Salerno.
2011	Non-resident academic correspondent on the grounds of scientific merit, Science Academy of the Bologna Institute
2015	The John Ross Jr's Annual Lecture, UCSD, La Jolla, CA
2020	Fellow, European Society of Cardiology
2021	Fellow, International Society for Heart Research

### Scientific Society Memberships:

- Member, European Society of Cardiology (ESC).
- European Society of Cardiology, Working group on Cardiac Molecular Biology.
- Board Member, Scientific Council of the Heart Failure Association, ESC (2004-2008).
- Nucleus Member, Working Group, Cellular Biology of the Heart.

### 6. -PROJECTS FINANCED BY NATIONAL AND INTERNATIONAL AGENCIES (PUBLIC AND PRIVATE)

#### 6a.- Projects financed by Italian agencies.

- 1995            Coordinator, Ministero Salute, "Terapia genica della ristenosi dopo angioplastica", Programma Terapia Genica (£It 60 M).
- 1996            Unit Leader, Ministero Salute, "Sviluppo di nuovi vettori per la terapia genica delle malattie cerebrovascolari" (£It 100 M).
- 1997            Unit Leader, Ministero Salute, "Ruolo dell'apoptosi nella patogenesi delle malattie neuromuscolari" (£It 140 M).
- Principal Investigator (P.I.), AIRC "Molecular Mechanisms of TAL-1 in T-cell Leukemia and in normal hematopoiesis (£It 250 M).
- Unit Leader, Ministero Salute, Cellule staminali somatiche 6ignali, ematopoietiche endoteliali e pluripotenti mesodermiche. Caratterizzazione funzionale, molecolare e plasticità funzionale, in vitro ed in vivo (£It 70 M).
- 2000            Unit Leader, Ministero Salute, Cardiomiopatie: basi morfo-funzionali bio-molecolari dello scompenso 6ignali con rimodellamento 6ignalin (£It 44,000 M).
- Unit Leader, Ministero Salute, Ruolo dei geni SOCS3 e PIAS3 nel rimodellamento dei vasi dopo angioplastica: messa a punto di nuovi vettori virali (£It 38,700 M).
- Principal investigator of a subproject within the NIH program project: "Molecular Mechanisms of Chronic Lymphocytic Lymphoma", NIH, principal investigator, Carlo M. Croce.
- Coordinator, Ministero Salute, Role of HLH genes in hemoangioblast differentiation. Programma Italia-USA Terapia dei Tumori (£It 250 M).

Coordinator, Ministero Salute, Differenziamento delle cellule staminali in cellule cardiache (£It 70 M).

2002 P.I., AIRC: Role of HLH genes in hemoangioblast differentiation (€ 35,000).

FIRB: Tissue Engineering and Stem Cells: Pluripotent stem cells for tissue reconstitution in models of degenerative diseases (€ 150,000).

Unit Leader, FIRB: "Caratterizzazione dei signaling genetici e molecolari delle risposte individuali agli inibitori delle ciclo-ossigenasi nei pazienti anziani ed identificazione di nuovi bersagli molecolari" (€ 60,000).

Unit Leader, FIRB: "Identificazione delle vie di signaling implicate nella riparazione molecolare e nel recupero funzionale di cellule post-mitotiche (miocardiociti, miociti scheletrici e neuroni). Studio pre-clinico e signaling (€ 60,000).

Unit Leader, Ministero Salute, Meccanismi molecolari delle complicanze cardiovascolari del diabete mellito: identificazione di nuovi bersagli terapeutici (€ 38,000).

Ministero della Salute: Ruolo di agenti anti-infiammatori ed anti-trombotici sulla prevenzione del rigetto acuto vascolare nello xenotrapianto (€ 35,000).

Unit Leader, Ministero Salute, Ruolo di agenti anti-infiammatori ed anti-trombotici sulla prevenzione del rigetto acuto vascolare nello xenotrapianto (€ 35,000).

Unit Leader, Ministero Salute, Meccanismi di oncogenesi tiroidea (€ 45,000).

Unit Leader, PRIN: Modelli sperimentali per la valutazione del potenziale riparativo dei progenitori emoangioblastici nel danno ischemico miocardico (€ 55,000).

2003 Coordinator, Ministero Salute: Ischemic and degenerative cardiovascular diseases: exploiting the mechanisms of differentiation and therapeutic applications of post-natal adult hematopoietic stem cells – 248,000 € (€ 140,000 to my unit).

Unit Leader, Ministero Salute: Terapia Immunosoppressiva per la Prevenzione della Restenosi dopo Impianto di Stent (€ 25,000).

Unit Leader, Ministero Salute: Il pathway IGF-1/PI3K/AKT: comprensione della trasmissione del segnale, ruolo nella eziopatogenesi di malattie, cardiologiche, emato-oncologiche ed approcci terapeutici innovativi attraverso la sua manipolazione (€ 51,000).

Unit Leader, PRIN: Strategie di terapia signaling per le malattie dei tessuti mesodermici (€ 70,000).

Coordinator, "Analisi dell'immagine in vivo per lo studio del differenziamento e della plasticità delle cellule staminali" Progetto Grandi Attrezzature, Università "La Sapienza", Roma (€ 80,000).

- 2004 Coordinator, "Identificazione di nuovi modulatori dell'angiogenesi tumorale per lo sviluppo di strategie anti-angiogeniche innovative", Programma oncotecnologico, Ministero della Salute (€ 83,000).
- 2005 "Analisi dell'immagine in vivo per lo studio del differenziamento e della plasticita' delle cellule staminali" Progetto Grandi Attrezzature, Universita' di Roma "La Sapienza" (70,000 €). Coordinatore Progetto FIRB 2003 per la call 1b), bando 12/12/2003, Terapie biologiche innovative per l'infarto del miocardio; "Laboratorio FIRB di Scienze Cardiovascolari" (€ 750,000).
- 2006 Unit Leader, FIRB "Genetica delle Cardiomiopatie" Identificazione di geni responsabili delle malattie cardiovascolari attraverso un approccio di screening "genome-wide" (€ 1.8 M).
- Coordinator: PRIN Stem cells for heart failure treatment (overall budget: €140,000; my unit: € 81,000). European Union
- 2007 Unit Leader, FIRB, TissueNet (€ 800,000).
- 2008 Coordinator, Fondazione CARIPOLO: "Role of microRNAs in myocardial diseases and their potential application in heart failure treatment" (overall budget: € 400,000; my unit: €330,000).
- Genomica e proteomica della resistenza agli antiaggreganti; Ministero Salute (€ 290,000).
- Genetic markers of susceptibility to sudden cardiac death in inherited arrhythmogenic diseases: from targeted SNP analysis to genome-wide screening. Ministero Salute (€ 100,000).
- 2009 PI, Identificazioni di nuove mutazioni per la cardiomiopatia ipertrofica in una popolazione Italiana attraverso l'utilizzo di un metodo di sequenziamento di nuova generazione. Ministero della Salute (€300,000).
- PI, Complicazioni cardiovascolari degli organi target nel diabete mellito: meccanismi molecolari ed implicazioni terapeutiche. Ministero della Salute (€ 300.000).
- 2010 P.I., Role of microRNAs 143 and 145 in cardiovascular physiology and disease: from bench to bedside. Fondazione CARIPOLO (€340,000).
- 2011 Unit Leader: Piattaforme intelligenti per analisi di oncogenomica e diagnostica personalizzata del cancro e malattie genetiche. MISE (€ 250,000).
- 2012 Unit Leader: New interactions between molecular pathways favoring an adaptative cardiac remodeling in pressure overload cardiomyopathy Italian Ministry of Education, University and Research (MIUR) (€130,000)
- 2015 PI: Circulating microRNAs as biomarkers of myocardial inflammation (Italian Ministry of Health) PE-2013-02356818; (€450,000) (2016-18)



2015	PI: Aging-mediated epigenetic changes modulate cardiac metabolism: implications for age-related cardiac malfunctioning; CARIPLO Foundation (€350,000) (2016-18)
2015	PI: Infrastructural grant for large instrumentation – Italian Ministry of Health (€ 250.000).
2016	PI: LMNA-related cardiomyopathy as a paradigm of cardiovascular precision medicine: innovative diagnostic, prognostic and therapeutic approaches, Italian Ministry of Education, University and Research (MIUR) (€ 472.000) (2017-2019)
2017	PI: Evaluation of Cardioprotection by the use of betablocker Nebivolol in patients with breast cancer or diffuse large B cell lymphoma undergoing chemotherapy with anthracyclines: a randomized controlled trial (€ 472.000) (2017-2020); Italian Drug Agency (AIFA)
2018	Unit PI, Progetto Placca, Rete IRCCS Cardiovascolari (€ 80.000)
2019	Unit Principal Investigator, INTEGRATED STRATIFICATION TOOLS IN CORONARY ARTERY DISEASE (INTERSTRAT-CAD) <i>Fondazione Regionale Ricerca Biomedica- Regione Lombardia</i> , (2020- 2022) €950.000
2019	Unit Principal Investigator, <i>Ministero della Salute</i> : “Strategie di prevenzione primaria cardiovascolare nella popolazione italiana CV prevital” (2020-21) - €650.000
2019	Unit PI, Progetto Placca, Rete IRCCS cardiovascolare (€120.000)
2020	PI: Biological bases, prognostic consequences and therapeutic implications of the immune response in the fragile COVID19 patients - BioTher19 (€250.000, of which K€ 150 to my unit) FUV-Fondazione CARIPLO
2020	PI: Rilevanza clinica e prognostica del coinvolgimento cardiovascolare nei pazienti affetti da COVID-19- Regione Lombardia (€ 780.000, of which K€240 to my unit)
2020	Unit PI: Clinical and Imaging Biomarkers associated with plasma and cellular determinants of cardiovascular disease at the time of COVID-19: Italian Ministry of Health (€ 120.000)
2020	PI: Immune phenotyping in human heart failure: clinical correlates for potential therapeutic guidance. Italian Ministry of Health (€ 450.000, of which 370.000 to my unit)
2021	PI: The link between metabolism and epigenetics in myocardial diseases Italian Ministry of University and Research ((€ 742.000, of which 226.000 to my unit)
2022	Unit PI: National Center for Gene Therapy and Drugs based on RNA Technology (1.300.000 €)

#### **6b.- Projects financed by international agencies.**

1999	Principal Investigator (P.I.) “Role of apoptotic genes in normal and altered cardiac function”, The American Heart Association (US\$ 75,000).
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- 2005 P.I. Role of Akt in cardiac contractility, National Institutes of Health, NHLBI, USA (US\$ 1.5 M) (2010).  
Steering committee, Integrated Project, VI FP, EU (€350,000): “Genomics of hypertrophic signalling to treat and prevent heart failure” (acronym: EuGene Heart), Unit 3 (2006-11)
- 2007 Unit Leader, Integrated Project, VII FP, EU: “Angiogenesis-inducing Bioactive and Bioresponsive Scaffolds in Tissue Engineering” (AngioScaff) (€280,0000).
- 2008 Unit Leader, “MicroRNAs as therapeutic targets in heart failure” (2008-13), Transatlantic Network of Excellence, Fondation LeDucq (France) (€800,000).
- 2011 P.I., National Institutes of Health, NHLBI, USA (2,0 ML US\$): Role of mTOR, a component of the AKT pathway, in regulating cardiac function (2011-15)
- 2012 P.I. European Research Council Advanced Grant (#294609) (2.5 M €): Epigenetics and microRNAs in Myocardial Function and Disease (2012-17)
- 2013 AIRC, PI: Circulating microRNAs as biomarkers of chemotherapy-related cardiotoxicity: a pilot study (€270,000)
- 2015 ERC Proof of Concept, Pi: Innovative nanoparticle formulation for a miR-133 based treatment of cardiac hypertrophy (# 713734) (€175.000)
- 2016 ERANET-CVD Joint Proposal, Unit PI; “Exploring new pathways in age-related heart diseases (2017-19) (€300.000)
- 2018 Marie Curie Training Network TRAINHEART, Unit PI (2019-21) (€550.000)
- 2019 Unit co-PI, INNODERM, *European Union*, (2019-22) €400.000

#### **Marie-Curie Training fellowship supervision**

- 2004 Marie Curie Outgoing Fellowship Training Grant, VI FP, EU. 3 years, (2005-2007), Trainee: Daniele Catalucci
- 2013 Supervisor, Marie Curie Outgoing Fellowship recipient Paola Cattaneo, PhD (to UCSD)
- 2013 Supervisor, Marie Curie Incoming Fellowship (€270,000), recipient Michelle Monansky, PhD (from U. Illinois)
- 2017 Supervisor, Marie Curie Incoming Fellowship (€270,000), recipient Nuno Guimaraes Camboa, PhD (from UCSD, La Jolla, CA)

2017 Supervisor, Marie Curie Outgoing Fellowship (€270,000), recipient Carolina M.Greco, PhD (To UC Irvine, Irvine, CA)

#### **7.-ORGANIZATION OF NATIONAL NETWORKS AND COORDINATION WITH LOCAL AUTHORITIES**

- 2007 Coordinator, Progetto Strategico Scopenso Cardiaco, Ministero della Salute (coordination of 25 groups within Italy studying heart failure) (Budget: €1.7 M).
- 2008 Project Coordinator, Progetto Nanotecnologie Applicate alla Medicina, Regione Lombardia - Accordo CNR- Regione Lombardia (overall budget: €10 M; budget provided by the region of Lombardy: €5 M).
- 2009 Medical Research in Italy (MERIT) Mezzogiorno, MIUR, attività di ricerca per istituzioni nel Sud Italia, coordinated by the Italian National Research Council (CNR) (Budget: €24 M).
- 2011 Coordinator, Progetto Strategico CNR Medicina Personalizzata (overall budget: €50 M).
- 2011 Coordinator, Progetto Premiale CNR "Invecchiamento" (overall budget: €30 M).

#### **8.-ORGANIZATION OF NON-PROFIT FORMATIVE ACTIVITIES AND INTERNATIONAL CONGRESSES**

- 1999 Heart Failure 2000, Rome, Italy
- 2002 Advances in myocardial ischemia, Naples
- 2002 8th Conference on Cardiac Function, Antwerp-La Jolla-Kyoto Conference on Cardiac Function, La Jolla
- 2003 Cardiac engineering: from cells and genes to structure and function; 2nd Larry & Horti Fairberg Workshop, in collaboration with the Faculty of Medicine, Technion University, Haifa, Israel
- 2003 Heart Failure: Mechanisms and Cell Replacement, Capri, Italy, in collaboration with the Cardiovascular Center Aalst, and the Dept. of Molecular Medicine, University of Medicine and Dentistry of New Jersey
- 2003 Heart Failure, Present and Future (international meeting), Rome
- 2003 New Outlooks on Heart Failure (international meeting), Naples
- 2004 Organizer, "Biology of Human Aging", in collaboration with the Institute of Molecular Medicine, USCD & Cell Press (first congress co-organized by Cell, which dedicated a whole issue to the event -February 24, 2005; 120 (4))
- 2004 Organizer, Basic Concepts and Innovative Strategies in Heart Disease (9th Conference on Cardiac Function, Antwerp-La Jolla-Kyoto Conference on Cardiac Function) Capri, in collaboration with the University of California, San Diego, Institute of Molecular Medicine, and the University of Catanzaro

- 2005 Scientific advisor committee, The communicative cardiac cell, 3rd Larry & Horti Fairberg Workshop
- 2005-09 Organizer of annual meetings of the Heart Failure Association, European Society of Cardiology, as a Scientific Board Member
- 2007 Organizer: Cardiac Stem Cells: What we need for clinical translation, Rome, Italy
- 2007 Organizer, Nature-CNR Research Conferences, Capri, Italy; Cancer Therapeutics: The Road Ahead; Translational Approaches to Cardiovascular Medicine
- 2007 Scientific advisor committee, 4th Larry & Horti Fairberg Workshop, Anthalya, Turkey
- 2008 Co-organizer Italy - Genome Canada workshop
- 2008 Guest Editor, special issue of Cardiovascular Research on microRNA in heart disease
- 2009 International Congress on Neurodegeneration, CNR, Rome, Italy
- 2010 Stem cells: the diverging goals of regenerative medicine and oncology (CNR, Istituto Naz. Tumori Milano, Massachusetts General Hospital).
- 2011 Emerging Molecular and Cellular Insights into Heart Failure and Arrhythmias: The 13th La Jolla-International Research Conference
- 2019 Organizing Committee, European Society of Cardiology Annual Meeting (2019-20)
- 2022 CardiImmunology Zurich 2022 Charterhouse Ittingen, Switzerland (Università di Zurigo)

**9.-EDITORIAL AND REFEREEING ACTIVITIES FOR INTERNATIONAL JOURNALS AND RESEARCH PROJECTS.**

Editorial board member of the following peer-reviewed journals in the cardiology field:

2003-17	Journal American College Cardiology
2012-18	Circulation Research
2009-	Journal Molecular Cellular Cardiology
2009-	Cell Death and Disease
2012-	Cardiovascular Research
2016-17	International Journal of Cardiology
2017-	Circulation - Senior Guest Editor

Associate Editor: Cardiovascular Research (past), Cell Death and Disease, International Journal of Cardiology (past),

Periodically, referee for the following scientific journals:

- American Journal Physiology
- Atherosclerosis

- BBA
- Basic Research in Cardiology
- BioMedCentral Genetics
- Cancer Research
- Cardiovascular Research
- Cell Death and Differentiation
- Cell Stem Cell
- Circulation
- Circulation Research
- Development
- Elife
- EMBO Mol. Med.
- European Heart Journal
- European Journal of Heart Failure
- FASEB J
- Gene Therapy
- Journal American College Cardiology
- The Journal of Biological Chemistry
- Journal Cellular Biochemistry
- Journal of Clinical Investigation
- Journal of the Medical Association of American Physicians
- Journal of Cell Physiology
- J. Mol. Cell. Cardiol.
- Journal of Molecular Medicine
- Leukemia
- Molecular and Cellular Endocrinology
- Molecular and Cellular Biology
- Molecular Pharmacology
- Nature
- Nature Cell Biology
- Nature Medicine
- New England Journal of Medicine
- Oncogene
- Proc. Natl. Acad. Sci. USA
- Science
- Science Translational Medicine
- Stem Cell

**Scientific Evaluation Panel Membership:**

- European Research Council (Panel Member LS4 “Advanced”, 2015; Vice-Chair 2017)
- Agency for Health Quality and Assessment of Catalonia (AQuAS) (2015), ES
- Agencie National de la Recherche, FR (2017;2021)
- ESC Council on Basic Cardiovascular Science (2017-)
- Leadership Committee, Liason, International (European), Council on Basic Cardiovascular Sciences, American Heart Association (2016-18), USA

- Scientific Advisory Panel for Research Excellence Awards, British Heart Foundation, UK (2018)
- Health Research Projects, Fundacion "La Caixa", ES (2018)
- ERA-Net on Cardiovascular Diseases (2018 & 2019)
- Deutsche Forschungsgemeinschaft TransRegio Grant Scheme (2019)
- Scientific Advisory Panel for Chair, British Heart Foundation (2019)
- European Society of Cardiology Annual Meeting Program Committee (2019-20)
- Deutsche Forschungsgemeinschaft- DFG (2019; 2020)
- German Centre for Cardiovascular Research-DZHK (2020-)
- Scientific Advisory Board, Institute of Translational Medicine, College of Medicine, Qingdao University, China (2020-)
- Board of Directors, Network of specialized cardiovascular hospitals of the Italian Ministry of Health (2020-)
- Scientific Advisory Board, University of Campania "Luigi Vanvitelli", Naples Italy

Reviewer:

- American Heart Association (U.S.A.)
- Agencie National de la Recherche, FR
- ANVUR, MIUR, IT
- Associazione Italiana per la Ricerca sul Cancro (AIRC)
- British Heart Foundation, UK
- Cancer Research UK
- Czech Science Foundation, CZ
- Diabetes UK
- Deutsche Forschungsgemeinschaft (GE)
- Dutch Heart Foundation/Technology Foundation STW, NL
- European Research Council, EU
- Fondazione Cassa Risparmio Padova Rovigo, IT
- Fonds Nationale de la Reserche du Luxembourg
- Fonds zur Fonrderung der Wissenschtlichen Forshung (Austria)
- German Federal Ministry of Education and Research (DMBF), GE
- Health Research Board (HRB), Ireland
- Israelian Science Foundation, IL
- Istituto Superiore di Sanità, IT
- Medical Research Council, U.K
- Medical Research Council, Singapore
- Ministry of Education of Flanders, Belgium
- MIUR, IT
- Muscolar Dystrophy Campaign, UK
- National Science Centre, Poland
- New Zealand Ministry of Business, Innovation & Employment (MBIE), NZL
- Regione Lombardia, IT
- Research Grant Council-Hong Kong, HK
- Science Foundation Ireland, IR,
- The Wellcome Trust - U.K.
- The Wellcome Trust - India
- US-Israel Binational Science Foundation
- The Netherlands Organization for Scientific Research (ZonMw), NL

- Swiss Science Foundation, SW
- University of Lausanne, SW
- Università La Sapienza, IT
- Università Milano Statale, IT
- Università di Padova, IT
- University of Leuven, BE

Consultant for academic progression for:

- Technical University of Munich, DE
- University of California San Diego, CA-USA
- The Cleveland Clinic, OH-USA
- University of Texas Southwestern Medical School, TX-USA
- University of Manchester, UK
- University of Frankfurt, DE

## 10.-RESEARCH ACTIVITY

### 10.1 Current main research lines

Basic mechanism of heart failure, including epigenetics and immunology

Models of human monogenic diseases

### SCIENTIFIC PUBLICATIONS

#### 10.2 - Bibliometrics

Number of publications cited by PubMed with IF	>240
H-index (Publish or Perish (1991-2022))	88
H-index (Scopus)	76
Number of citations (1991-2022) <b>Google Scholar</b>	> 27900
Book Chapters	9

10.3 - List of published articles with an impact factor (citations/article in brackets). Orcid ID 0000-0003-0481-6843; Researcher ID: Q-6736-2017)

- 1) Trimarco, B., De Luca, N., Ricciardelli, B., Rosiello, N., Volpe, M., Condorelli, G.L., Lembo, G., and Condorelli, M. (1989): *Cardiac-function in systemic hypertension before and after reversal of left-ventricular hypertrophy* **Am. J. Cardiology**, 62: 745-750.
- 2) Trimarco, B., De Luca, N., Rosiello, G., Ricciardelli, B., Marchegiano, R., Condorelli, G.L., Raponi, M. and Trimarco, B. (1989): *Effects of long -term anti-hypertensive treatment with tertatolol on diastolic function in hypertensive patients with and without left ventricular hypertrophy.* **Am. J. Hypertension**, 2: 278S-283S.
- 3) Trimarco, B., Lembo, G., De Luca, N., Volpe, M., Ricciardelli, B., Condorelli, G.L., Rosiello, G. and Condorelli, M. (1989): *Blunted sympathetic response to cardiopulmonary receptor unloading in hypertensive patients with left ventricular hypertrophy.* **Circulation**, 80: 883- 892.
- 4) Trimarco, B., Chierchia, S., Lembo, G., De Luca, N., Ricciardelli, B., Condorelli, G.L., Volpe, M., and Condorelli, M.(1990): *Prolonged duration of myocardial ischemia in patients with coronary artery disease and impaires cardiopulmonary baroreceptor sensitivity.* **Circulation**, 81: 1792-1802.
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#### 10.4 – Book Chapters

- 1) De Luca, A., Claudio, P.P., Baldi, A., Howard, C.M., Campisi, S., Giordano, A. and Condorelli, G.L. (1994): *Role of Retinoblastoma gene family members during differentiation and cancer*. In : *Future Trends in Endocrinology* , A. De Bellis and E. Schipani Eds., Ares Serono Symposia.
- 2) Bonci D, Latronico MV, Condorelli G. (2003) *Lentivirus Gene Engineering Protocols*. *Methods Mol Biol*. 229:169-79.

- 3) Gianluigi Condorelli & Giulio Cossu: **Trattato di Medicina Interna**, Teodori Ed., SEU, Capitolo: *Le cellule staminali*.
- 4) Mario Condorelli & Gianluigi Condorelli **Biologia Molecolare Medica** Melino & Ciliberto Eds, SEU: Capitolo: *Meccanismi molecolari della contrattilità nel cuore sano e nell'insufficienza cardiaca*
- 5) Giulio Cossu & Gianluigi Condorelli **Biologia Molecolare Medica** Melino & Ciliberto Eds, SEU: Capitolo: *Cellule Staminali in Terapia Medica*, in press
- 6) Paolo Gallo & Gianluigi Condorelli: **Enciclopedia del XXI Secolo**, Enciclopedia Italiana Treccani *L'insufficienza Cardiaca*.
- 7) Gianluigi Condorelli & Giulio Cossu: **Enciclopedia del XXI Secolo**, Enciclopedia Italiana Treccani *Le cellule staminali*.
- 8) Papait, R., Cattaneo P., Latronico, M.V., and Condorelli, G. (2011) *Epigenetics in cardiovascular biology*; in *Muscle: Fundamental Biology and Mechanisms of diseases*. Hill, J. and Kitsis, R.K. editors.
- 9) Cavarretta, E., Frati, G., and Condorelli G (2013): *MicroRNAs and cardiovascular disorders, with an emphasis of angiogenesis*; in J.L. Mehta and N.S. Dhalla (eds.), *Biochemical Basis and Therapeutic Implications of Angiogenesis*, *Advances in Biochemistry in Health and Disease* 6, DOI 10.1007/978-1-4614-5857-9\_25, © Springer Science+Business Media New York 2013

#### 10.5 - International conferences and seminars

- 1994 The Fels Institute for Cancer Research, Temple University, Philadelphia PA
- 1994 Department of Immunology and Microbiology, Thomas Jefferson University
- 1996 Centro di Endocrinologia ed Oncologia Sperimentale, C.N.R., Naples, Italy
- 1996 European Society of Atherosclerosis, Florence Italy
- 1996 National Heart Institute, NHLBI, Bethesda, MD
- 1997 Division of Cardiology, Department of Medicine, UCSD, San Diego CA
- 1997 Mario Negri Sud, Chieti, Italy
- 1998 IDUN Pharmaceutical, San Diego, CA
- 1998 *Horizons in Heart Failure: Genes, Hormones and Cytokines*; 6th Antwerp-LaJolla-Kyoto Conference on Cardiac Function
- 1998 Department of Pharmacology, Faculty of Pharmacology, University of Milan, Italy
- 1998 Annual Meeting, Italian Society of Cardiology, Rome
- 1998 Cardiovascular and Pulmonary Research Center, Allegheny University, Pittsburgh.
- 1999 Division of Cardiology, Department of Medicine, UCSD, La Jolla, CA
- 1999 *Heart Failure 2000*, Rome, Italy
- 1999 *Perspective in Cancer Biology and Medicine*, Capri, Italy
- 1999 Division of Cardiovascular Medicine, Penn State University, Deanville PA
- 1999 Annual Meeting, Italian Society of Cardiology, Rome, Italy
- 2000 7th Antwerp-La Jolla-Kyoto Conference on Cardiac Function, Kyoto, Japan
- 2000 Division of Cardiology, University of Cincinnati Medical School, OH
- 2000 Department of Pediatrics, University of Pittsburgh School of Medicine, PA
- 2000 Department of Pharmacology, University of Chieti Medical School, Chieti Italy
- 2000 II European Congress on Apoptosis, Erice (TR), Italy
- 2000 Academic Medical Institute, Amsterdam, NL
- 2000 Annual Meeting, Italian Society of Cardiology, Rome, Italy

2000 University of New Jersey Medical School, Newark, NJ  
2002 European Society of Cardiology, Berlin  
2002 8th Conference on Cardiac Function, La Jolla CA  
2002 University of Padua, Department of Biochemistry  
2002 The Italian forum on the Renin-Angiotensin System, Capri  
2002 Advances in myocardial ischemia, Naples  
2002 4th Congress of the Italian Federation of Life Sciences, Riva del Garda, Italy  
2002 Congresso Nazionale, Società Italiana di Cardiocirurgia, Roma  
2002 Congresso Nazionale, Gruppo Italiano di Studio di Emodinamica, Verona  
2002 Congresso Nazionale, Società Italiana di Cardiologia, Roma  
2002 University of New Jersey Medical School, Newark, NJ  
2003 Basic mechanisms relating to collateral development, Washington D.C.  
2003 Imperial College, London UK  
2003 Center of Excellence in Aging, University of Chieti, Italy  
2003 Department of Pharmacology, Università del Piemonte Orientale, Novara  
2003 Centre of Excellence on Neurodegenerative Diseases, University of Milan  
2003 Cardiac engineering: from cells and genes to structure and function, Erice  
2003 Heart Failure: Mechanisms and Cell Replacement, Capri  
2003 Accademia Medica, Università "La Sapienza": Meccanismi Molecolari dell'Insufficienza Cardiaca"  
2003 Role of Apoptosis in Human Diseases, Università di Palermo  
2003 University of California San Diego, La Jolla CA  
2003 Cardiac engineering: from cells and genes to structure and function; 2nd Fairberg Workshop, Erice  
2003 Aging and cardiovascular diseases, Napoli  
2003 Workshop biologia delle cellule staminali proprietà e prospettive, I.N.B.B., Bressanone  
2003 Olympic committee, Meeting on Sport Medicine, Athens  
2003 Coronary Artery Disease: Novel aspects. European Society of Cardiology symposium, Naples, Italy  
2003 European Society of Cardiology annual meeting, Vienna, Austria  
2003 Molecular Mechanisms of Growth, Death and Regeneration in the Myocardium: Basic Biology and Application to Ischemic Heart Disease and Heart Failure- American Heart Association, Snowbird, Utah, USA  
2003 Katholic University of Leuven, Belgium  
2003 Congresso Nazionale, Società Italiana di Cardiologia, Roma  
2004 Faculty of Natural Sciences, University of Milan, Milan, Italy  
2004 Department of Genetics, University of Turin  
2004 International Society for Heart Research, Brisbane, Australia  
2004 Department of Medicine, Oxford University, Oxford, UK  
2004 European Society of Cardiology, Annual Meeting, Munich  
2004 Trondheim University, Trondheim, Norway  
2005 3rd Larry & Horti Fairberg Workshop, Sintra, Portugal  
2005 European Society of Cardiology, Working Group Myocardial Function, Isola, France  
2005: Norwegian Society of Cardiology, Lilliehammer, Norway  
2005 Heart Failure Association Annual Meeting, European Society of Cardiology, Lisbon, PT  
2005 American Heart Association, Dallas, TX  
2005 European Society of Cardiology, Stockholm, Sweden  
2006 Winter Meeting, European Society of Cardiology, Garmish, Germany  
2006 Gottingen University, Gottingen, Germany  
2006 Hannover University, Hannover, Germany

2006 III. Leopoldina-Symposium on Cardiovascular Healing 2006, Würzburg, Germany  
2006 Heart Failure, European Society of Cardiology, Helsinki, Finland  
2006 Università di Torino, Turin, Italy  
2006 Yamaguchi University, Yamaguchi, Japan  
2006 Karolinska Institute, Stockholm, Sweden  
2006 Trondheim University, Trondheim, Norway  
2007 Winter Meeting, European Society of Cardiology, Garmish, Germany  
2007 Università Magna Graecia, Catanzaro, Italy  
2007 Università di Padova, Padua, Italy  
2007 Heart Failure Annual Meeting, European Society of Cardiology, Hamburg, Germany  
2007 4th Larry & Horti Fairberg-Technion Institute Workshop, Anthalya, Turkey  
2007 Catholic University, Brussel, Belgium  
2008 Winter Meeting, Heart Failure Association, European Society of Cardiology, Garmisch, Germany  
2008 INSERM, Hopital Pitié-Salpêtrière, Université Pierre et Marie Curie Paris, France  
2008 Utrecht University, Utrecht, Netherland  
2008 Accademia Medica, Università La Sapienza, Rome  
2008 Università Campus Biomedico, Rome  
2008 Università della Tuscia, Viterbo  
2008 Heart Failure Association Annual Meeting, European Society of Cardiology, Milan, Italy  
2008 Annual Meeting, European Society of Cardiology, Munich, Germany  
2008 Annual Meeting, American Heart Association, New Orleans, USA  
2008 Trondheim University, Trondheim, Norway  
2008 Istituto di Genetica e Biofisica, CNR, Naples, Italy  
2008 Università di Salerno, Italy  
2008 Seoul Conference on Cardiovascular Research (Seoul, South Korea)  
2008 Hopital Bichat, INSERM, Paris, France  
2009 Val D'Hebron Hospital, University of Barcelona, Spain  
2009 IRCCS Humanitas, Milan, Italy  
2009 Department of Pharmacology, University of Milan, Italy  
2009 Haifa University, Haifa, Israel  
2009 Heart Failure Association, European Society of Cardiology, Brussel  
2009 Heart Failure Association, Nice  
2009 Università di Torino, International Meeting on Endocrinology  
2009 International Meeting on Heart Failure, Oslo  
2009 International meeting on microRNAs, Goethe University, Frankfurt  
2009 American Heart Association, Orlando, USA  
2009 University of Miami, Miami, USA  
2009 Utrecht University, Utrecht, NL  
2010 Cardiology Toward the Future, Florence Italy  
2010 San Raffaele Hospital, University Vita-Salute, Milan  
2010 European Society of Cardiology, Heart Failure Association Winter Meeting, Switzerland  
2010 Japanese Circulation Society, Kyoto, Japan  
2010 Stem Cell Workshop, Università Milano-Bicocca  
2010 International Society of Heart Research, Kyoto, Japan  
2010 Gordon Conference, New London, NH  
2010 Basic Cardiovascular Science Meeting, American Heart Association, Palm Spring, CA

2010 University of California Los Angeles, Los Angeles  
2010 Frontiers in Cardiovascular Biology, ESC, Berlin  
2010 European Society of Cardiology, Stockholm  
2010 Karolinska Institute, Stockholm  
2010 University of Cologne, Germany  
2010 University of Campinas, Brasil  
2010 LNIO, Campinas, Brasil  
2010 American Society of Heart Failure, San Diego, CA  
2010 Spanish National Cardiovascular Research Center (CNIC), Madrid  
2010 IRCCS Rizzoli, Bologna  
2011 European Society of Cardiology, Heart Failure Association Winter Meeting, Switzerland  
2011 Istituto Fisiologia Clinica, CNR, Pisa  
2011 University of Trondheim, opening lecture of the K.G. Jebsen Centre of Exercise Medicine  
2011 Basic Cardiovascular Science Meeting, American Heart Association, New Orleans LO  
2011 European Society of Cardiology, Paris  
2011 XI Congress of the Society of Heart and Vascular Metabolism, Brussels, BE  
2012 Winter Meeting, Heart Failure Association, European Society of Cardiology, Les Diablerets, SUI  
2012 CERM, Università di Firenze  
2012 Accademia Medica, Università La Sapienza, Roma  
2012 HUGEF, Università di Torino  
2012 British Cardiovascular Society, Manchester, UK  
2012 Frontiers in Cardiovascular Biology, ESC, London, UK  
2012 European Society of Atherosclerosis, Milan, IT  
2012 Japanese Circulation Society, Fukuoka, JP  
2012 Frontiers in Cardiac and Vascular Regeneration, ICGEB, Trieste, IT  
2012 American Heart Association, Los Angeles, CA  
2013 University of Leicester, UK  
2013 ESC –Working Group of Myocardial Function, Varenna, Italy  
2013 International Society of Heart Research, San Diego, USA  
2013 University of Cologne, DE  
2013 European Society of Cardiology Annual Meeting, Amsterdam, NE  
2013 International MADS Box Conference (IMBC), Canandaigua NY  
2013 University of Cologne, Germany  
2013 University of Texas South Western Medical School, Dallas, TX  
2014 University of Trento, PhD course lecture  
2014 Lugano Stem Cell Meeting, CardioCentro, Lugano  
2014 German Society of Cardiology, San Servolo, Venice  
2014 Frontiers CardioVascular Biology, European Society of Cardiology, Barcelona, Spain  
2014 University of Gottingen, Germany  
2014 Basic Cardiovascular Science Meeting, American Heart Association, Las Vegas  
2014 Decoding non-coding RNAs in Development and Cancer, CNR, Capri, IT  
2014 American Heart Association annual meeting, Chicago, IL  
2014 University of Maastricht, CARIM, Maastricht, NL  
2015 Winter Meeting, Heart Failure Association, European Society of Cardiology, Les Diablerets, SUI  
2015 Collegio Borromeo, Pavia  
2015 German Society of Cardiology, San Servolo, Venice

2015 The "John Ross Jr" Lecture, University of California San Diego  
2015 Basic Cardiovascular Science Meeting, American Heart Association, New Orleans, LO  
2015 University of Hannover Medical School  
2015 Ludwig Maximilian University, Munich DE  
2015 German-Italian Center of European Excellence, Villa Vigoni, Italy  
2016 FCVB Meeting, ESC, Florence, Italy  
2016 ESC annual meeting, Rome, Italy  
2016 Japanese Society of Cardiology, Sendai, Japan  
2016 ISHR, Buenos Aires, Argentina  
2016 German Society of Cardiology, San Servolo, Venice  
2016 Basic Cardiovascular Science Meeting, AHA, Santa Fe, AZ  
2016 American Heart Association Annual Meeting, New Orleans, LO  
2017 Technical University of Munich, Munich DE  
2017 Hong Kong University, HK  
2017 National University Heart Centre, Singapore  
2017 Keystone Symposia, Keystone, CO  
2017 University of Copenhagen  
2017 University of Verona, IT  
2018 CNIC, Madrid, ES  
2018 HFA Winter Meeting, Les Diablerets, CH  
2018 FCVB Meeting, ESC, Vienna, AT  
2018 University of Texas SouthWestern Medical School, Dallas, TX  
2018 International MAD Box Conference, Lake Placid, NY  
2018 Rutgers New Jersey Medical School, Newark, NJ  
2018 University of Freiburg, DE  
2018 ESC annual meeting, Munich DE  
2018 University of Fribourg, DE  
2018 4th Munich Conference on Cardiac Development  
2018 American Heart Association annual meeting, Chicago, IL  
2019 ESC-HFA Winter Meeting  
2019 Gordon Conference, Hong Kong, HK  
2019 International Society of Heart Research, Beijing, CN  
2019 European Society of Cardiology Annual Meeting, Paris, FR  
2020 European Society of Cardiology Annual Meeting  
2021 Heart Failure Association Annual Meeting, ESC  
2021 German Society of Cardiology, San Servolo, Venice  
2022 Winter Meeting, HFA, ESC (online)  
2022 University of Coimbra, PT  
2022 Telethon Institute, Naples, IT

#### **10.6 – Patents**

PESCHLE, CONDORELLI G (2006). Uses and compositions comprising mirnas. WO2008015028A1

Kallikourdis M, Condorelli G (2016). Inhibitors of t cell activation or stimulation and uses thereof. WO2017121502A1

CATALUCCI D, CONDORELLI G (2015). Mimetic peptides and their use in medicine. WO2015110589A1,

Condorelli G, Anselmo A, Papa L, Viviani Anselmi C (2015). Method for characterization of cell specific microvesicles. WO2017077105A1

June 30<sup>th</sup>, 2022