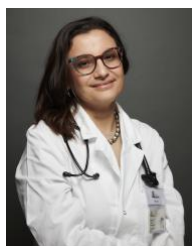


## PERSONAL INFORMATION

## Cinzia Perrino MD PhD FESC



### 📍 Affiliations

- Federico II University, Department of Advanced Biomedical Sciences
- Federico II University Hospital, Department of Cardiovascular Sciences, Imaging Diagnostics and Time-dependent networks of Cardiovascular Emergencies

🌐 <https://orcid.org/0000-0002-2274-0048>

## WORK EXPERIENCE

- From 2018 to present **Associate Professor of Cardiology**  
Federico II University, Naples, Italy - Coordinator, Laboratory of Molecular Cardiology and Cardiovascular Pathophysiology, Federico II University. Scientific Director of several projects involving small animal models of cardiovascular diseases, Federico II University animal facility.
- From 2011 to 2018 **Assistant Professor of Cardiology**  
Federico II University, Naples, Italy - Coordinator, Laboratory of Molecular Cardiology and Cardiovascular Pathophysiology, Federico II University. Scientific Director of several projects involving small animal models of cardiovascular diseases, Federico II University animal facility.
- From 2009 to 2010 **Post-Doctoral Fellow**  
Heart Care Foundation, Florence, Italy - Participation to clinical research projects.
- From 2009 to 2010 **Post-Doctoral Fellow**  
Neurological Mediterrean Institute (Neuromed), Department of Angio- Cardio-Neurology, Pozzilli, Isernia, Italy - Laboratory of Molecular Cardiology, participation to several projects involving small animal models of cardiovascular diseases, Neuromed, Pozzilli, Isernia, Italy.
- From 2007 to 2011 **Post-Doctoral Fellow**  
Federico II University, Naples, Italy - Laboratory of Molecular Cardiology, Federico II University  
Participation to several projects involving small animal models of cardiovascular disease, Federico II University animal facility.
- From 2002 to 2005 **Research Associate**

## EDUCATION AND TRAINING

- From 2002 to 2007 **PhD in Cardiovascular Pathophysiology and Experimental Medicine**  
Federico II University, Naples, Italy - In vitro, ex vivo and in vivo preclinical models of cardiovascular diseases, including complete pathophysiological invasive and noninvasive assessment of cardiac function and structure, genetically modified animal models, in vivo and in vitro gene therapy.
- From 1998 to 2002 **Residency and Board in Cardiology**  
Federico II University, Naples, Italy - Cardiovascular physiology, pathophysiology and molecular mechanisms of cardiovascular diseases, clinical management of cardiovascular diseases, preclinical and clinical research for cardiovascular diseases.
- From 1992 to 1998 **School of Medicine**  
Federico II University, Naples, Italy

## WORK ACTIVITIES

- Awards**
- Best Poster Presenter Award, Italian Society of Cardiology (2000).
  - Research Award, Sanofi-Aventis Foundation (2005).
  - Young Investigator Award (first prize), Italian Society of Cardiology (2006).
  - Research Award, L'Oreal-Unesco "For Women in Science" (2008).
  - Atherothrombosis Research Award, European Society of Cardiology (2008).
  - Scholar in Cardiology, Italian Society of Cardiology (2012).
  - Qualification as Associate Professor of Cardiology by the Commission nominated by the Italian Ministry of University, Research and Technology (2012).
  - Fellow of the European Society of Cardiology (2014).
  - Qualification as Full Professor of Cardiology by the Commission nominated by the Italian Ministry of University, Research and Technologies (2018).

- Fellow of the Italian Society of Cardiology (2020).

- Commissions of Trust**
- 2008 - Grant reviewer, Catalan Agency for Health Technology Assessment and Research, Spain.
  - 2011 - Faculty, School of Medicine, Federico II University, Naples, Italy.
  - 2012 - 2014: Member of the Faculty Committee for the Admission Test, School of Medicine, Federico II University, Naples, Italy.
  - 2013 - Member of the Committee for Teaching, School of Physical Therapy, Federico II University, Naples, Italy.
  - 2011 - Reviewer, major cardiovascular journals (Circulation, Circulation Research, Cardiovascular Research, Basic Research in Cardiology).
  - 2016 - 2018: Member, Congress Program Committee of the European Society of Cardiology.
  - 2022 - Grant reviewer, La Sapienza University, Rome, Italy.
  - 2022 - Member of the Executive Group of the Scientific Documents Committee of the European Society of Cardiology.

- Supervision and tutoring of students**
- 2002 - 2005: 1 medical student; Duke University Medical Center, Durham, NC, USA.
  - 2011 - 6 medical students, 6 post-doctoral fellows, 6 Erasmus students, 5 PhD students, Federico II University, Naples, Italy.

- Teaching activity**
- 2008 - 2009: Training Course, "Echocardiography in coronary artery disease" Federico II University, Naples, Italy.
  - 2009 - 2011: School of Medicine, Cardiovascular Seminars on "Biomolecular aspects in cardiovascular diseases", Federico II University, Naples, Italy.
  - 2011 - School of Medicine, School of Physical Therapy, Fellowship Program in Cardiology, Federico II University, Naples, Italy.
  - 2018 - International PhD program "Cardiovascular Pathophysiology and Therapeutics", Federico II University, Naples, Italy.
  - 2023 - PhD Program "RNA Therapeutics and Gene Therapy", Federico II University, Naples, Italy.

- Clinical Practice**
- 2011 - Physician Cardiologist, Staff Member of Coronary Care Unit and Cardiology Ward at Federico II University Hospital Department of Cardiovascular Emergencies, Clinical Medicine and Gerontology, Federico II University, Naples, Italy.
  - 2019 - Chief, Program on "Integrated Clinical Management of Patients with Complex Cardiovascular Diseases", Department of Cardiovascular Emergencies, Clinical Medicine and Gerontology, Cardiology Unit Federico II University Hospital, Naples, Italy.

- Roles in Scientific Societies**
- 1998 - Member, Working Group on Molecular and Cellular Biology of the Heart, Italian Society of Cardiology.
  - 1998 - Member, European Society of Cardiology, Working Group Cellular Biology of the Heart.
  - 2001 - Member, American Heart Association, Council on Basic Cardiovascular Sciences.
  - 2008 - Member, International Society for Heart Research.
  - 2014 - Member, Nucleus of Working Group Cellular Biology of the Heart, European Society of Cardiology.
  - 2018 - 2022: Chairperson, Working Group on Molecular and Cellular Biology of the Heart, Italian Society of Cardiology.
  - 2022 – 2024: Chairperson, Working Group Cellular Biology of the Heart, European Society of Cardiology.

- Invited lectures at international meetings (selection)**
- American Heart Association Scientific Sessions, Chicago, IL, USA. Cardiovascular Seminar: New Frontiers in Heart Failure: A Focus on G Protein- Coupled Receptors. (2010).
  - American Heart Association Scientific Sessions, Orlando, FL, USA. "Mitochondrial cAMP signals: Role of A Kinase Anchor Proteins" (2011).
  - American Heart Association Scientific Sessions, Los Angeles, CA, USA. "Methylation Signature and Cardiac Hypertrophy" and "PI3Ks in Physiological or Pathological cardiac Hypertrophy" (2012).
  - American Heart Association Scientific Sessions, Chicago, IL, USA. "DNA Damage and Aging: Focus on mitochondria" and "Epigenomic signature and Gene expression in heart failure induced Pressure overload" (2014).

- European Society of Cardiology Annual Meeting, Barcelona, Spain. “Epigenetics signature and gene expression in cardiac hypertrophy” (2014).
- Bi-annual meeting of the Working Groups on “Myocardial Function” and “Cellular Biology of the Heart” of the European Society of Cardiology. Varenna, Italy, May 2017. Lecture: “Promises and pitfalls of omics approaches in cardiovascular diseases” (2017).
- European Society of Cardiology Annual Meeting, Barcelona, Spain, August 2017. Lecture: “Metabolomic profile in cardiac hypertrophy and heart failure” (2017).
- “Transcriptomics and Epigenomics”, European Society of Cardiology Summer School, 16-20 June 2019, Sophia Antipolis, France (2019).
- Sex-specific effects in cardiovascular disease, “Improving translational research in sex-specific effects of comorbidities”, *Frontiers in Cardiovascular Biomedicine* 2022 - Budapest - Hungary (2022).
- “Improving translational research in heart failure addressing sex-specific effects” Heart Failure and World Congress on Acute Heart Failure 2022, Madrid - Spain (2022).

- Grants**
- 2009 (Role: PI) Title: “Mechanisms and effects of the DNA damage response in the heart and novel molecular approaches to enhance cardiomyocyte repair”; funding Institution: Italian Ministry of Health; amount funded: 195.458 Euro.
  - 2012 (Role: PI) Title: “Beta-adrenergic abnormalities, mitochondrial stress and epigenetic modifications in heart failure: novel molecular diagnostic and therapeutic approaches”; funding Institution: Italian Ministry of University and Research; amount funded: 1.005.898 Euro.
  - 2015 (Role: Unit Coordinator) Title: “LMNA-related cardiomyopathy as a paradigm of cardiovascular precision medicine: innovative diagnostic, prognostic and therapeutic approaches”; Funding Institution: Italian Ministry of University and Research; amount funded Unit Perrino: 87.262,52 Euro.
  - 2016 (Role: PI) Title: “Integrating epigenetics, metabolomics and gut microbiota profiles to achieve personalized medicine in heart failure”; Funding Institution: Federico II University, Banco SanPaolo; amount funded Euro.
  - 2020 (Role: Unit Coordinator) Title: “The role of longevity-associated-variant of BPIFB4 in the treatment of platelet-related cardiovascular abnormalities in diabetes mellitus”; Funding Institution: Italian Ministry of University and Research; amount funded Unit Perrino: 161.000 Euro.
  - 2022 (Role: Collaborator) Title: “National Center for Gene Therapy and Drugs based on RNA Technology”; Funding Institution: Italian Ministry of University and Research; amount funded Unit Esposito: 400.000 Euro.
  - 2022 (Role: PI) Title: “Creation of a multicenter national registry for peripartum cardiomyopathy: a wide, multidisciplinary and translational perspective to achieve personalized medicine for a rare disease in women”; Funding Institution: Italian Ministry of Health, PNRR; amount funded Unit Perrino: 400.000 Euro.

## ADDITIONAL INFORMATION

### Bibliometric indexes

Total number of publications in peer-review journals: 114  
 Total Impact Factor (IF) (average IF/paper): 1027,50 (8,4/paper)  
 Total number of citations: 4450  
 H index: 37

### Major research interests

As shown by her CV, Prof. Perrino’s major research interests are related to the molecular mechanisms underlying cardiac hypertrophy and heart failure, myocardial ischemia and reperfusion, vascular function/dysfunction, arterial hypertension, angiogenesis, and the crosstalk between gut microbiota composition and the heart. One of the major interests of Prof. Perrino is the integration of multiple strategies of molecular profiling to achieve personalized medicine in heart failure, identifying druggable targets and pathways with strong translational implications. Naples, February 18, 2024

### Most significant publications (selection)

- Corbucci GG\*, Perrino C\*, Donato G, Ricchi A, Lettieri B, Troncone G, Indolfi C, Chiariello M, Avvedimento EV. Transient and reversible deoxyribonucleic acid damage in human left ventricle under controlled ischemia and reperfusion. *J Am Coll Cardiol.* 2004 Jun 2; 43(11):1992-9. \*First two authors equally contributed to this work.

- Perrino C, Naga Prasad SV, Patel M, Wolf MJ, Rockman HA. Targeted inhibition of  $\beta$ ARK1-associated phosphoinositide 3-kinase activity preserves  $\beta$ -adrenergic receptor signaling in heart failure induced by calsequestrin overexpression. *J Am Coll Cardiol* 2005;45:1862–70.
- Perrino C, Naga Prasad SV, Schroder JN, Hata JA, Milano C, Rockman HA. Restoration of  $\beta$ -adrenergic receptor signaling in heart failure by disruption of the  $\beta$ ARK1- phosphoinositide 3-kinase complex. *Circulation*. 2005;111:2579-2587.
- Perrino C, Naga Prasad SV, Mao L, Noma T, Yan Z, Kim HS, Smithies O, Rockman HA. Intermittent pressure overload triggers hypertrophy-independent cardiac dysfunction and vascular rarefaction. *J Clin Invest*. 2006 Jun;116(6):1547-60.
- Curcio A, Noma T, Naga Prasad SV, Wolf MJ, Lemaire A, Perrino C, Mao L, Rockman HA. Competitive displacement of phosphoinositide 3-kinase from beta-adrenergic receptor kinase-1 improves postinfarction adverse myocardial remodeling. *Am J Physiol Heart Circ Physiol*. 2006 Oct;291(4):H1754-60.
- Perrino C, Schroder JN, Lima B, Villamizar N, Nienaber JJ, Milano CA, Naga Prasad SV. Dynamic Regulation of Phosphoinositide 3-Kinase- $\gamma$  Activity and  $\beta$ -Adrenergic Receptor Trafficking in End-Stage Human Heart Failure. *Circulation*. 2007 Nov 27;116(22):2571-9.
- Esposito G\*, Perrino C\*, Ozaki T, Takaoka H, Defer N, Petretta MP, De Angelis MC, Mao L, Hanoune J, Rockman HA, Chiariello M. Increased Myocardial Contractility and Enhanced Exercise Function in Transgenic Mice Overexpressing Either Adenylyl Cyclase 5 or 8. *Basic Res Cardiol*. 2008 Jan;103(1):22-30. \*First two authors equally contributed to this work.
- Esposito G\*, Perrino C\*, Schiattarella GG, Belardo L, di Pietro E, Franzone A, Capretti G, Gargiulo G, Pironti G, Cannavo A, Sannino A, Izzo R, Chiariello M. Induction of mitogen-activated protein kinases is proportional to the amount of pressure overload. *Hypertension*. 2010 Jan;55(1):137-43. \*First two authors equally contributed to this work.
- Perrino C, Feliciello A, Schiattarella GG, Esposito G, Guerriero R, Zaccaro L, Del Gatto A, Saviano M, Garbi C, Carangi R, Di Lorenzo E, Donato G, Indolfi C, Avvedimento VE, Chiariello M. AKAP121 downregulation impairs protective cAMP signals, promotes mitochondrial dysfunction, and increases oxidative stress. *Cardiovasc Res*. 2010 Oct 1;88(1):101-10.
- Damilano F, Franco I, Perrino C, Schaefer K, Azzolino O, Carnevale D, Cifelli G, Carullo P, Ragona R, Ghigo A, Perino A, Lembo G, Hirsch E. Distinct Effects of Leukocyte and Cardiac Phosphoinositide 3-Kinase  $\gamma$  Activity in Pressure Overload-Induced Cardiac Failure. *Circulation*. 2011 Feb 1;123(4):391-9.
- Perrino C, Gargiulo G, Pironti G, Franzone A, Scudiero L, De Laurentis M, Magliulo F, Iardi F, Carotenuto G, Schiattarella GG, Esposito G. Cardiovascular effects of treadmill exercise in physiological and pathological preclinical settings. *Am J Physiol Heart Circ Physiol*. 2011 Jun;300(6):H1983-9.
- Esposito G\*, Perrino C\*, Cannavo A, Schiattarella GG, Borgia F, Sannino A, Pironti G, Gargiulo G, Di Serafino L, Franzone A, Scudiero L, Grieco P, Indolfi C, Chiariello M. EGFR Trans-activation by Urotensin II Receptor is Mediated by Beta-arrestin Recruitment and Confers Cardioprotection in Pressure Overload-induced Cardiac Hypertrophy. *Basic Res Cardiol*. 2011 Jun;106(4):577-89. \*First two authors equally contributed to this work.
- Perrino C, Schiattarella GG, Sannino A, Pironti G, Petretta MP, Cannavo A, Gargiulo G, Iardi F, Magliulo F, Franzone A, Carotenuto G, Serino F, Altobelli GG, Cimini V, Cuocolo A, Lombardi A, Goglia F, Indolfi C, Trimarco B, Esposito G. Genetic Deletion of Uncoupling Protein 3 Exaggerates Apoptotic Cell Death in the Ischemic Heart Leading to Heart Failure. *J Am Heart Association* 2014, Feb 28;3(1).
- Angrisano T, Schiattarella GG, Keller S, Pironti G, Florio E, Magliulo F, Bottino R, Pero R, Lembo F, Avvedimento EV, Esposito G, Trimarco B, Chiariotti L, Perrino C. Epigenetic switch at *atp2a2* and *myh7* gene promoters in pressure overload-induced heart failure. *PLoS One*. 2014 Sep 2;9(9):e106024.
- Schiattarella GG, Cattaneo F, Pironti G, Magliulo F, Carotenuto G, Pirozzi M, Polishchuk R, Borzacchiello D, Paolillo R, Oliveti M, Boccia N, Avvedimento M, Sepe M, Lombardi A, Busiello RA, Trimarco B, Esposito G, Feliciello A, Perrino C. Akap1 Deficiency Promotes Mitochondrial Aberrations and Exacerbates Cardiac Injury Following Permanent Coronary Ligation via Enhanced Mitophagy and Apoptosis. *PLoS One*. 2016 May 2;11(5):e0154076.
- Perrino C, Trimarco B. Akap-mediated signalling: the importance of being in the right place at the right time. *Cardiovasc Res*. 2017 Feb;113(2):115-117.
- Madonna R, Van Laake LW, Davidson SM, Engel FB, Hausenloy DJ, Lecour S, Leor J, Perrino C, Schulz R, Ytrehus K, Landmesser U, Mummery CL, Janssens S, Willerson J, Eschenhagen T, Ferdinandy P, Sluijter JP. Position Paper of the European Society of Cardiology Working Group Cellular Biology of the Heart: cell-based therapies for myocardial repair and regeneration in ischemic heart disease and heart failure. *Eur Heart J*. 2016 Jun 14;37(23):1789-98.
- Hausenloy DJ, Garcia-Dorado D, Erik Bøtker H, Davidson SM, Downey J, Engel FB, Jennings R, Lecour S, Leor J, Madonna R, Ovize M, Perrino C, Prunier F, Schulz R, Sluijter JP, Van Laake LW, Vinten-Johansen J, Yellon DM, Ytrehus K, Heusch G, Ferdinandy P. Novel targets and future

strategies for acute cardioprotection: Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. *Cardiovasc Res.* 2017 May 1;113(6):564-585.

- Perrino C, Barabási AL, Condorelli G, Davidson SM, De Windt L, Dimmeler S, Engel FB, Hausenloy DJ, Hill JA, Van Laake LW, Lecour S, Leor J, Madonna R, Mayr M, Prunier F, Sluijter JPG, Schulz R, Thum T, Ytrehus K, Ferdinandy P. Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. *Cardiovasc Res.* 2017 Jun 1;113(7):725-736.
- Thielmann M, Sharma V, Al-Attar N, Bulluck H, Bisleri G, Bunge JJH, Czerny M, Ferdinandy P, Frey UH, Heusch G, Holfeld J, Kleinbongard P, Kunst G, Lang I, Lentini S, Madonna R, Meybohm P, Muneretto C, Obadia JF, Perrino C, Prunier F, Sluijter JPG, Van Laake LW, Sousa-Uva M, Hausenloy DJ. ESC Joint Working Groups on Cardiovascular Surgery and the Cellular Biology of the Heart Position Paper: Perioperative myocardial injury and infarction in patients undergoing coronary artery bypass graft surgery. *Eur Heart J.* 2017 Aug 14;38(31):2392-2407.
- Schiattarella GG, Sannino A, Toscano E, Giugliano G, Gargiulo G, Franzone A, Trimarco B, Esposito G, Perrino C. Gut microbe-generated metabolite trimethylamine-N-oxide as cardiovascular risk biomarker: a systematic review and dose-response meta-analysis. *Eur Heart J.* 2017 Oct 14;38(39):2948-2956.
- Schiattarella GG, Cattaneo F, Carrizzo A, Paolillo R, Boccella N, Ambrosio M, Damato A, Pironti G, Franzone A, Russo G, Magliulo F, Pirozzi M, Storto M, Madonna M, Gargiulo G, Trimarco V, Rinaldi L, De Lucia M, Garbi C, Feliciello A, Esposito G, Vecchione C, Perrino C. Akp1 Regulates Vascular Function and Endothelial Cells Behavior. *Hypertension.* 2018 Jan 15.
- Schiattarella GG, Carrizzo A, Ilardi F, Damato A, Ambrosio M, Madonna M, Trimarco V, Marino M, De Angelis E, Settembrini S, Perrino C, Trimarco B, Esposito G, Vecchione C. Rac 1 modulates endothelial function and platelet aggregation in diabetes mellitus. *J Am Heart Assoc.* 2018 Apr 6;7(8):e007322.
- Madonna R, Van Laake LW, Botker HE, Davidson SM, De Caterina R, Engel FB, Eschenhagen T, Fernandez-Aviles F, Hausenloy DJ, Hulot JS, Lecour S, Leor J, Menasché P, Pesce M, Perrino C, Prunier F, Van Linthout S, Ytrehus K, Zimmermann WH, Ferdinandy P, Sluijter JPG. ESC Working Group on Cellular Biology of the Heart: position paper for Cardiovascular Research: tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure. *Cardiovasc Res.* 2019.
- Perrino C, Ferdinandy P, Botker HE, Brundel BJJM, Collins P, Davidson SM, den Ruijter HM, Engel FB, Gerds E, Girao H, Gyöngyösi M, Hausenloy DJ, Lecour S, Madonna R, Marber M, Murphy E, Pesce M, Regitz-Zagrosek V, Sluijter JPG, Steffens S, Gollmann-Tepeköylü C, Van Laake LW, Van Linthout S, Schulz R, Ytrehus K. Improving Translational Research in Sex-specific Effects of Comorbidities and Risk Factors in Ischemic Heart Disease and Cardioprotection: Position Paper and Recommendations of the ESC Working Group on Cellular Biology of the Heart. *Cardiovasc Res.* 2020 Jun 2;cvaa155.
- Boccella N, Paolillo R, Coretti L, D'Apice S, Lama A, Giugliano G, Schiattarella GG, Cuomo M, d'Aquino I, Cavaliere G, Paciello O, Mollica MP, Mattace Raso G, Esposito G, Lembo F, Perrino C. Transverse aortic constriction induces gut barrier alterations, microbiota remodeling and systemic inflammation. *Sci Rep.* 2021 Apr 1;11(1):7404.
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- Pesce M, Agostoni P, Botker HE, Brundel B, Davidson SM, Caterina R, Ferdinandy P, Girao H, Gyöngyösi M, Hulot JS, Lecour S, Perrino C, Schulz R, Sluijter JP, Steffens S, Tancevski I, Gollmann-Tepeköylü C, Tschöpe C, Linthout SV, Madonna R. COVID-19-related cardiac complications from clinical evidences to basic mechanisms: opinion paper of the ESC Working Group on Cellular Biology of the Heart. *Cardiovasc Res.* 2021 Aug 29;117(10):2148-2160.
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- Paolillo R, D'Apice S, Schiattarella GG, Ameri P, Borzacchiello D, Catalucci D, Chimenti C, Crotti L, Sciarretta S, Torella D, Feliciello A, Perrino C. Mitochondrial a Kinase Anchor Proteins in Cardiovascular Health and Disease: A Review Article on Behalf of the Working Group on Cellular

and Molecular Biology of the Heart of the Italian Society of Cardiology. *nt J Mol Sci.* 2022 Jul 12;23(14):7691.

- Forte M, Rodolico D, Ameri P, Catalucci D, Chimenti C, Crotti L, Schirone L, Pingitore A, Torella D, Iacovone G, Valenti V, Schiattarella GG, Perrino C, Sciarretta S; Italian Society of Cardiology Working Group on Cellular, Molecular Biology of the Heart. Molecular mechanisms underlying the beneficial effects of exercise and dietary interventions in the prevention of cardiometabolic diseases. *J Cardiovasc Med (Hagerstown).* 2023 Apr 1;24(Suppl 1):e3-e14.
- Rizzuto AS, Faggiano A, Macchi C, Carugo S, Perrino C, Ruscica M. Extracellular vesicles in cardiomyopathies: A narrative review. *Heliyon.* 2023 Dec 17;10(1):e23765.

I hereby declare that contents of this CV are authentic.

(signed)

Cinzia Perrino MD PhD