

CURRICULUM VITAE

PART I: General Information

DATE PREPARED: June 16, 2015

Name: Piero Anversa

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Boston, MA 02116

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Place of Birth: Parma, Italy

Education:

Year	Degree	Field of Study	Institution
1965	MD	Medicine Biology	University of Parma Medical School

Licensure and Certification:

Year	Type of License or Certification
1966	Medical License (Italy)
1967	Italian equivalent of Pathology Boards in Pathologic Anatomy and Clinical Pathology
1974	Education Council for Foreign Medical Graduates, 222-617-3

Academic Appointments:

2007	Brigham and Women's Hospital Professor of Anesthesia Professor of Medicine Brigham & Women's Hospital, Harvard Medical School
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Hospital or Affiliated Institution Appointments:

Year	Title	Hospital/Affiliated Institution
1965-1966	Assistant in Pathology	University of Parma
1966-1980	Assistant Professor of Pathology	University of Parma
1985-1986	Professor of Pathology	University of Parma
1976-1980	Research Associate Professor of Pathology	New York Medical College
1980-1982	Associate Professor of Pathology	New York Medical College
1982-1985	Professor of Pathology	New York Medical College
1985-1986	Clinical Professor of Pathology	New York Medical College
1986-2007	Professor of Pathology	New York Medical College
1991-2007	Professor of Microbiology and Immunology	New York Medical College
1991-2007	Professor of Medicine	New York Medical College
1991-2007	Director, Cardiovascular Research Institute	New York Medical College
1999-2007	Vice-Chairman of Medicine	New York Medical College
2007-Present	Brigham and Women's Hospital Professor of Anesthesia and Professor of Medicine, Director, Center for Regenerative Medicine Brigham and Women's Hospital	Harvard Medical School

Other Professional Positions and Major Visiting Appointments:

Year	Title	Hospital/Affiliated Institution
1972-1974	Visiting Assistant Professor of Pathology	New York Medical College
1991-Present	Visiting Professor of Medicine	Albert Einstein College of Medicine at Yeshiva University
1997-Present	Permanent Visiting Professor of Medicine	University of Rome Division of Cardiology Agostino Gemelli Medical School Sacred Heart Catholic University
2004-Present	Adjunct Research Professor	San Diego State University
2008-Present	Adjunct Professor of Medicine	New York Medical College
2008-2013	Board of Scientific Counselors of the National Institute on Aging (NIA)	

Major Committee Assignments:

Year	Name of Committee	Role	Institution
1981	NIH Program Project Site Visit	Reviewer	University of Vermont

1983	NIH-NHLBI-RFA Committee	Member	Bethesda
1984	NIH SCOR Project Site Visit	Reviewer	TheClevelandClinic
1989	NIH Cardiovascular and Pulmonary Study Section	Reviewer (ad hoc)	Bethesda
1991	NIH Program Project Site Visit	Reviewer	Bethesda
1991	NIH Program Site Visit	Reviewer	Bethesda
1992	Research Committee of the American Heart Association (New York State Affiliate)	Reviewer	Syracuse
1994	American Heart Association Peer Review Group	Co-Chairman	Dallas
1996	NIH Program Project Site Visit	Reviewer	Bethesda
1998	NIH Program Project Site Visit	Reviewer	Bethesda
1998	NIH Study Section	Reviewer	Bethesda
1998	NIH Study Section	Reviewer	Bethesda
1998	NIH Study Section	Reviewer	Bethesda
1998	NIH Study Section	Reviewer	Bethesda
1998	NIH Study Section	Reviewer	Bethesda
1998	NIH Study Section	Reviewer	Bethesda
1998	NIH Study Section	Reviewer	Bethesda
1999	NIH Study Section	Reviewer	Bethesda
1999	NIA, Board of Scientific Counselors, Review of the Laboratory of Cardiovascular Science		Baltimore
2003	ECS Study Section	Reviewer	Bethesda
2003	D.W. Reynolds Cardiovascular Clinical Research Center	Reviewer	Miami
2003	NIA, Board of Scientific Counselors, Review of the Laboratory of Cardiovascular Science	Member	Baltimore

2000-2004	NIH-CCHF Study Section	Standing Member	Bethesda
2004	EuroSTELLS Review Panel European Science Foundation	Chairman	Strasbourg, France
2005	EuroSTELLS Review Panel European Science Foundation	Chairman	Brussels, Belgium
2005	NIH-VCMB Study Section	Member	Bethesda
2004-2007	International Council International Society for Heart Research		
2004-2007	Nominating Committee International Society for Heart Research		
2004-2007	Scientific Program Committee International Society for Heart Research		
2004-2007	Nominating Committee Council on Basic Cardiovascular Sciences, AHA		
2005-2008	Leadership Committee, AHA		
2005	NIH Study Section Myocardial Ischemia and Metabolism		Bethesda
2006	NIH Study Section RFA Heart Failure Network		Bethesda
2007	NIH Study Section PPG Review		Bethesda
2007	NIH SEP		Bethesda
2009	NIH Challenge Grant		Bethesda
2008-2014	Board of Scientific Counselors of the National Institute on Aging (NIA)		
2009	NIH Study Section Vascular Cell and Molecular Biology	Reviewer	Bethesda
2010	NIH Study Section Cardiac Contractility and Heart Failure	Reviewer	Bethesda
2010-2012	Member of the College of CSR Reviewers, NIH		
2010-2012	Chairman of the Scientific Advisory Board Interdisciplinary Stem Cell Institute		Miami

University of Miami Miller School of Medicine

Professional Societies:

Society	Title
American Heart Association	Fellow
AHA Council on Basic Cardiovascular Sciences	Leadership Committee Member
American Physiological Society	Member
American Society for Investigative Pathology	Member
Heart Failure Society of America	Member
International Society for Heart Research	Member
New York Academy of Sciences	Member
Societa' Italiana Di Ricerche Cardiovascolari	Member
Society for Cardiovascular Pathology	Member
Southern Society for Clinical Investigation	Member

Editorial Boards:

Name of Journal	Role
World Journal of Cardiology	Editorial Board Member
Circulation Research	Editorial Board Member
Circulation	Editorial Board Member
Cardiovascular Pathology	Editorial Board Member
Cardiologia	Editorial Board Member
Journal of Molecular and Cellular Cardiology	Editorial Board Member
Giornale Italiano di Cardiologia	Editorial Board Member
Heart Failure Review	Editorial Board Member
Advances in Clinical Pathology	Editorial Board Member
Heart Disease	Editorial Board Member
Cardiology in Review	Editorial Board Member
Italian Heart Journal	Editorial Board Member
Journal of Cardiovascular Pharmacology	Editorial Board Member
Current Stem Cell Research	Editorial Board Member
Regenerative Medicine	Editorial Board Member
Open General and Internal Medicine Journal	Editorial Board Member
Open Cardiovascular Medicine Journal	Editorial Board Member
BioResearch Open Access	Editorial Board Member
PLoS One	Academic Editor
CELLR4	Editorial Board Member

Awards and Honors:

Year	Name of Award
1971-1972	Fellow of the North Atlantic Treaty Organization

1996 New York State A.H.A. Paul N. Yu, M.D. Research Award

1996 Dean's Distinguished Research Award
New York Medical College

2001 Fellow of the American Heart Association and
the Council on Basic Cardiovascular Sciences

2001 Fellow of the International Society for Heart Research

2002 Münchner Collegium für Therapieforschung
Ludwig Maximilians Universität München
Technische Universität München, Germany

2002 Alpha Omega Alpha

2002 Laurea ad Honorem
University of Bologna, Medical School

2002 Joseph R. DiPalma, M.D. Distinguished Visiting Professor
Hahnemann University School of Medicine

2002 Fellow of the International Academy of Cardiovascular Sciences

2002 Fellow of the American Heart Association and
the Council for High Blood Pressure Research

2003 International Society for Heart Research Symposium
Janice Pfeffer Memorial Lecture
“Myocardial Regeneration in Heart Failure”

2003 Distinguished Scientist of the American Heart Association

2003 George E. Brown Memorial Lecture, American Heart Association

2004 City of Parma Saint Hillary Award

2004 Research Achievement Award, American Heart Association

2005 Valsalva's Award, Bologna, Italy

2008 Premio Montevergine
Naples, Italy

2008 Honoree of the “Stems of the Heart:
Myocardial and Vascular Rebirth” Symposium

2009	Lucian Award McGill University
2012	Honorary Member of the Japanese Circulation Society
2012	Liberta' Parmigiana Award Parma, Italy
2012	Medal of Merit, International Academy of Cardiovascular Sciences
2013	International Award "Sebetia-Ter" Pozzuoli, Italy

Part II: Research, Teaching, and Clinical Contributions

A. Narrative Report of Research

The research conducted in my laboratory has challenged the paradigm that the heart is a post-mitotic organ characterized by a predetermined number of parenchymal cells, which is defined at birth and is preserved throughout life till death of the organ and organism. The work I have conducted in the last 20 years has led to the recognition that the heart is an organ permissive for myocardial regeneration which can be mediated by exogenous progenitor cells, endogenous progenitor cells or both.

We were directly involved in the documentation of hematopoietic stem cell (HSCs) transdifferentiation and the demonstration of the therapeutic potential of bone marrow cells for the damaged heart. Although this remains a controversial issue, several experimental and clinical studies have provided strong evidence in favor of our original observation and the notion that HSCs can form myocytes and coronary vessels replacing infarcted myocardium. Additionally, our work has shown that the heart belongs to the group of constantly renewing organs, where the capacity to replace cells depends on the persistence of a stem cell compartment. Regeneration conforms to a hierarchical archetype in which slowly dividing stem cells give rise to highly proliferating, lineage-restricted progenitor cells, which then become committed precursors and, eventually, reach growth arrest and terminal differentiation. These findings have formed the basis of a new paradigm of the heart in which multipotent cardiac stem cells (CSCs) are implicated in the physiological turnover of myocytes, endothelial cells, smooth muscle cells and fibroblasts.

The recognition that the heart possesses a stem cell compartment that can regenerate myocytes and coronary vessels has raised the unique possibility to reconstitute dead myocardium after infarction, to repopulate the hypertrophic decompensated heart with new better functioning myocytes and vascular structures and perhaps to reverse ventricular dilation and wall thinning, restoring the physiological and anatomical characteristics of the normal heart. However, the field of regenerative cardiology is in its infancy and great caution has to be exercised in the implementation of this form of cellular therapy in human beings before we have obtained the basic information concerning the biology and function of CSCs. Although there is no good animal model that can be employed to collect this information, experimental evidence has been collected in our laboratory in favor of the efficacy of CSCs for the repair of the damaged heart in animal models of the human disease.

The identification of CSCs in animals suggests that the heart possesses an intrinsic ability for tissue repair and puts forward unprecedented prospective therapeutic strategies for the failing heart. However, until recently, the existence of a human CSC was uncertain. We have identified and characterized a human c-kit-positive CSC that is stored in myocardial niches. These findings are consistent with the presence of a resident CSC compartment that can renew itself and provide a committed progeny. Currently, we are testing the hypothesis whether the damaged coronary circulation and scarred myocardium can be replaced with new coronary vessels and cardiomyocytes rebuilding the failing heart.

B. Funding Information / Report of Current Research Activities

Project	Role
NIH 1R01HL39902-17 <i>“Identification of a Coronary Vasculature Progenitor Cell in Human Ischemic Heart Failure”</i> September 2008 – August 2014	Principal Investigators (Anversa, Kajstura, Leri)
Program Project Grant NHLBI <i>“Rebuilding the Failing Heart”</i> September 2008 – June 2014	Program Director
Project 3: <i>“Restructuring the Transplanted Heart”</i> September 2008 – June 2014	Project Leader
Core A: <i>“Administrative Core”</i> September 2008 – June 2014	Core Leader
NIH 1R37HL081737-01 (MERIT) <i>“Repair and Angiogenesis by Stem Cells in the Human Heart”</i> July 2005 – June 2016	Principal Investigator
1R01HL105532-01 <i>“Redefining Human Myocardial Biology”</i> August 2011 – July 2016	Principal Investigators (Anversa, Buchholz, Kajstura)
1R01AG037495-01 <i>“Immortal DNA Strand and Cardiac Stem Cell Aging”</i> August 2011 – July 2016	Principal Investigator
P01 AG043353-01 <i>“Aging of the Heart”</i> February 2013 – January 2018	Program Director

Previously Supported Research:

NIH 1R01HL-14713 <i>"Hypothermia and the Heart"</i> April 1979 - March 1982	Co-Principal Investigator
American Heart Association Research Grant-In-Aid 79-1036 <i>"Perinatal Cell and Tissue Dynamics in the Myocardium"</i> October 1979 - September 1982	Co-Principal Investigator
NIH 1R01HL-33448 <i>"Effects of exercise on the myocardium"</i> December 1984 - November 1987	Co-Principal Investigator
NIH 1R01HL-24479 <i>"Myocardial Response to Infarction"</i> April 1981 - March 1986	Principal Investigator
NIH 1R01HL-39902 <i>"Aging of the Heart"</i> February 1989 - January 1995	Principal Investigator
NIH 1R01HL-40561 <i>"Post-Infarction Dilated Cardiomyopathy"</i> September 1989 - December 1992	Principal Investigator
NIH 1R01HL-38132 <i>"Myocardial Response to Infarction"</i> August 1987 - December 1994	Principal Investigator
Program Project - Edmund H. Sonnenblick, M.D. NIH HL-37412 <i>"Mechanisms of Myocardial Dysfunction and Heart Failure"</i> October 1, 1988 - September 30, 1994; Sub-Project In Project # 1 <i>"Structure and Function in Reactive Hypertrophy and Heart Failure"</i>	Principal Investigator
NIH 1R01HL-40561 <i>"Post-Infarction Dilated Cardiomyopathy"</i> January 1993 - December 1997	Principal Investigator
NIH 1R01HL-38132 <i>"Coronary Artery Narrowing Induced Cardiomyopathy"</i> January 1995 - January 2001	Principal Investigator
NIH 1R01HL-39902 <i>"Aging of the Heart"</i> February 1995 - January 2000	Principal Investigator

<p>Program Project - Gabor Kaley, Ph.D. NIH HL-43023 <i>"Endothelium and Vascular Function"</i> July 1996 - June 2001</p>	
<p>Project 3 <i>"Nitric Oxide and Myocyte Cell Death in the Failing Heart"</i></p>	Principal Investigator
<p>NIH 1R01AG-15756 <i>"Myocyte Cell Death in the Infarcted Heart"</i> January 1998 - December 2003</p>	Principal Investigator
<p>NIH 1R01HL-66923 <i>"Oxidative Stress and Diabetic Cardiomyopathy"</i> October 2000 – September 2004</p>	Principal Investigator
<p>NIH 1R01HL-38132 <i>"Oxidative Stress and the Heart Aging Phenotype: Effects of Ischemia"</i> February 2001 – January 2006</p>	Principal Investigator
<p>NIH 1R01AG-17042 <i>"Age, Gender and the Failing Heart"</i> May 2000 - April 2006</p>	Principal Investigator
<p>NIH 1R01HL-39902-16 <i>"Cardiac Myocyte Aging"</i> October 2001 – September 2007</p>	Principal Investigator
<p>Program Project Grant: Roberto Bolli NIH <i>"Protection of Ischemic Myocardium"</i></p>	Program Director
<p>Core B: <i>"Pathology Core"</i> April 2005 – March 2010</p>	Core Leader
<p>Program Project Grant NIH AG-17042 <i>"Stem Cell and Cardiac Aging"</i> July 2004 – June 2012</p>	Program Director
<p>NIH 1R01AG-17042-06 <i>"IGF-1, Gender, Heart Failure, and Longevity: A Paradigm Shift"</i> September 2006 – August 2013</p>	Principal Investigator

D. Report of Teaching

1. Medical School

Year(s) taught	Name of course or laboratory/teaching role
November 1968 - June 1980 April 1985 - September 1986	Lectures on cardiovascular pathology to medical students and residents, Department of Pathology, University of Parma
November 1968 - June 1980 April 1985 - September 1986	Laboratory Instructor to medical students and residents Department of Pathology, University of Parma Responsible for the development of the Course in Ultrastructural Pathology for medical students and residents, Department of Pathology, University of Parma Mentor to twelve medical students for M.D. Thesis, Department of Pathology, University of Parma Mentor to seven students in Biological Sciences for Ph.D. Thesis, Department of Pathology, University of Parma Mentor to students in Experimental Pathology for Ph.D. Thesis, Department of Pathology, New York Medical College

Selected Trainees

Vladimir Levicky, MD. 1981-1983

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY
Current position: Pathologist, Los Angeles County Coroners, Los Angeles

Roberto Ricci, M.D. 1984-1986

Post-doctoral Fellow, Department of Pathology, University of Parma, Medical School, Parma, Italy

Current Position: Associate Professor, Department of Pathology, University of Parma, Medical School, Parma, Italy

Massimo Melissari, M.D. 1984-1986

Post-doctoral Fellow, Department of Pathology, University of Parma, Medical School, Parma, Italy

Current Position: Associate Professor, Department of Pathology, University of Parma, Medical School, Parma, Italy

Costanza Lagrasta, M.D. 1989-1991

Post-doctoral Fellow, Department of Pathology, University of Parma, Medical School, Parma, Italy

Current Position: Assistant Professor, Department of Pathology, University of Parma, Medical School, Parma, Italy

Peng Li, M.D. 1991-1996

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Clinical Cardiologist, Montefiore Hospital, Albert Einstein College of Medicine, New York, NY

Krzysztof Reiss, Ph.D. 1992-1996

Assistant Professor, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Associate Professor, Neuroscience and Neurovirology, Temple University, Philadelphia, PA

Wei Cheng, M.D. 1992-1996

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Resident, Medicine, Montefiore Hospital, Albert Einstein College of Medicine, New York, NY

Jan Kajstura, Ph.D. 1992-1994

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Associate Professor, Departments of Anesthesia and Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Baosheng Li, M.D. 1994-2001

Research Associate, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Research Scientist, Regeneron, Tarrytown, NY

Annarosa Leri, M.D. 1996-1999

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Associate Professor, Departments of Anesthesia and Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Fabio Fiordaliso, Ph.D. 1998-2002

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Senior Scientist, Cardiovascular Laboratory, Mario Negri Research Institute, Milan, Italy

Antonella Zacheo, 1999-2001

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Vascular Pathology Laboratory, IDI, Rome, Italy

Konrad Urbanek, M.D. 1999-2003

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Department of Pharmacology, University of Naples, Naples, Italy

Igor Jakoniuk, M.D. 1999-2002

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Senior Hematologist, Department of Medicine, Medical Academy, Warsaw, Poland

Federica Limana, Ph.D. 1999-2002

Research Associate, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Vascular Pathology Laboratory, IDI, Rome, Italy

Stefano Chimenti, Ph.D. 1999-2002

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Senior Scientist, Cardiovascular Laboratory, Servier, Paris, France

Antonio Beltrami, M.D., Ph.D. 1999-2003

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Department of Hematology and Oncology, University of Udine Medical School, Udine, Italy

Daniela Cesselli, M.D., Ph.D. 1999-2003

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Department of Pathology, University of Udine Medical School, Udine, Italy

Clotilde Castaldo, M.D. 2000-2002

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Department of Anatomy, University of Naples Medical School, Naples, Italy

Marcello Rota, Ph.D. 2000-2003

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Departments of Anesthesia and Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Elena Piegari, Ph.D. 2000-2002

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Department of Pharmacology, University of Naples Medical School, Naples, Italy

Cristina Chimenti, M.D. 2002-2003

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Department of Medicine, Division of Cardiology, University La Sapienza, Rome, Italy

Antonella De Angelis, Ph.D. 2003-2006

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Department of Pharmacology, University of Naples Medical School, Naples, Italy

Claudia Bearzi, Ph.D. 2003-2007

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Senior Scientist, University of South California, Los Angeles

Claudia Casarsa, Ph.D. 2003-2005

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, European Institute of Oncology, Milan, Italy

Raffaella Rastaldo, Ph.D. 2003-2005

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Department of Physiology, University of Torino Medical School, Torino, Italy

Daria Nurzynska, M.D. 2003-2006

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Department of Anatomy, University of Naples Medical School, Naples, Italy

M. Elena Padin-Iruegas, M.D. 2003-2006

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Department of Anatomy, University of Pamplona Medical School, Pamplona, Spain

Franca Di Meglio, M.D. 2004-2005

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Department of Anatomy, University of Naples Medical School, Naples, Italy

Toru Hosoda, M.D. 2003-2007

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Assistant Professor, Departments of Anesthesia and Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Angelo Nascimbene, M.D. 2004-2007

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Resident, Internal Medicine, Texas Heart Institute, Houston, TX

Alessandro Boni, Ph.D.

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Universite' de Lausanne, Lausanne, Switzerland

Francesco Rotatori, M.D. 2005-2006

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Resident, Internal Medicine, Staten Island University Hospital, Staten Island, NY

Grazia Esposito, Ph.D. 2005-2007

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Vascular Pathology Laboratory, IDI, Rome, Italy

Serena Vitale, Ph.D. 2005-2007

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Staff Scientist, Vascular Pathology Laboratory, IDI, Rome, Italy

Federico Mosna, M.D. 2005-2007

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY

Current position: Hematologist, Department of Hematology, University of Verona Medical School, Verona, Italy

Arantxa Gonzalez, Ph.D. 2005-2007

Post-doctoral Fellow, Cardiovascular Research Institute, New York Medical College, Valhalla, NY
Current position: Assistant Professor, Department of Medicine, University of Pamplona Medical School, Pamplona, Spain

Carlos Rondon, M.D. 2007-2011

Post-doctoral Fellow, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Domenico D'Amario, M.D. 2008-2011

Post-doctoral Fellow, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Mauricio Cabral-Da-Silva, Ph.D. 2008-2011

Post-doctoral Fellow, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Joao Ferreira-Martins, MD. 2008-2012

Post-doctoral Fellow, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Hanqiao Zheng, M.D., Ph.D. 2008-2012

Instructor, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Polina Goichberg, Ph.D. 2008-present

Instructor, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Fumihiko Sanada, M.D. 2008-present

Post-doctoral Fellow, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Barbara Ogorek, Ph.D. 2009-present

Post-doctoral Fellow, Laboratories for Regenerative Medicine, Departments of Anesthesia and

Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Christian Arranto, M.D. 2010-present

Post-doctoral Fellow, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Sergio Signore, Ph.D. 2010-present

Post-doctoral Fellow, Laboratories for Regenerative Medicine, Departments of Anesthesia and Medicine, and Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

2. Regional, National or International Contributions

November 2001	American Heart Association State-of-the-Art Lecture <i>"Stem Cells and Cardiac Repair"</i>
March 2002	University of Buffalo State University of New York Distinguished Scientist Lecture <i>"Heart Failure and Myocardial Regeneration"</i>
March 2002	University of Pennsylvania School of Medicine Lambertsen Lecture <i>"Myocyte Death and Replication: Major Determinants in Heart Failure"</i>
April 2002	Baylor College of Medicine <i>'Ischemic Myocardial Injury and Cardiac Repair'</i>
April 2002	Harvard Medical School Cardiovascular Cell and Gene Therapy Conference <i>"Regeneration of the Infarcted Heart"</i>
May 2002	University of Bologna <i>"Cardiac Stem Cells"</i>
June 2002	Hahnemann University School of Medicine <i>"Stem Cells and the Failing Heart"</i>
July 2002	University of Louisville Distinguished Scientist Lecture <i>"Myocardial Damage and Regeneration"</i>
August 22, 2002	The Cleveland Clinic <i>"Stem Cells and Ischemic Cardiomyopathy"</i>

September 2002	München, Germany MCT – Lecture of Munich Medical Colleges 2002 <i>“Identification of a Cardiac Stem Cell”</i>
September 2002	Columbia University Medicine and Cardiology Grand Rounds - Opening Lecture <i>“Mobilization, Characterization and Function of Cardiac Stem Cells”</i>
September 2002	Council for High Blood Pressure Research State of the Art Lecture <i>“Stem Cells in Cardiovascular Research”</i>
October, 2002	Yale University <i>“Stem Cells and Reconstitution of the Injured Heart”</i>
October, 2002	Cornell University <i>“Stem Cells and Myocardial Regeneration”</i>
November 2002	American Heart Association Plenary Session <i>“Regeneration of the Infarcted Heart”</i>
February, 2003	University of Western Ontario <i>“Stem Cells in Cardiac Failure”</i>
March 2003	Brigham and Women’s Hospital, Harvard University Cardiovascular Grand Rounds <i>“Stem Cells and Cardiac Repair”</i>
March 2003	University of Florida, Gainesville Cardiology Grand Rounds <i>“The Potential of Myocardial Regeneration in the Diseased Heart”</i> Department of Molecular Pharmacology <i>“Cardiac Stem Cells”</i>
March 2003	Imperial College Faculty of Medicine, London, U.K. <i>“The Heart as a Self-Renewing Organ”</i> Hammersmith <i>“The Failing Human Heart: Cell Death and Regeneration”</i>
April 2003	Myocardial Hypertrophy and Aortic Stenosis – International Symposium Brescia, Italy <i>“Hypertrophy and Hyperplasia”</i>
April 2003	German Society of Cardiology, Manheim, Germany

The Heart: A Regenerating Organ?"

- April 2003 University of Medicine and Dentistry of New Jersey
Cardiology Grand Rounds,
"The Failing Human Heart: Cell Death and Regeneration"
- May 2003 Stem Cells and Aging, Potomac, Maryland
"Stem Cells and Cardiac Repair"
- June 2003 International Society for Heart Research Symposium
"Myocardial Regeneration in Heart Failure"
- August 2003 University of Louisville
"Myocyte Death and Regeneration in the Human Heart"
- September 2003 Japanese College of Cardiology, Tokyo
"Reverse Remodeling of the Aging Heart" and *"Stem Cells and Cardiac Repair"*
- September 2003 Keio University, Tokyo
"Identification and Role of Cardiac Stem Cells"
- September 2003 Heart Failure Society, Las Vegas
"State of the Art: Cardiac Progenitor Cells and their Manipulation Following Injury"
- September 2003 European Society of Organ Transplantation, Venice, Italy
"Stem Cells for Myocardial Repair"
- October 2003 Myocardial Ischemia Conference, Capri, Italy
"Myocardial Regeneration"
- October 2003 San Diego State University
"Myocyte Cell Death and Regeneration in the Human Heart"
- November 2003 American Heart Association
Orlando, Florida
George E. Brown Memorial Lecture
"The Role of Stem Cells in Cardiac Repair"
- November 2003 American Heart Association
Orlando, Florida
Plenary Session *"Heart Failure and Cardiac Stem Cells"*
- November 2003 Temple University, Philadelphia
"Stem Cells and the Aging Heart"
- December 2003 Johns Hopkins, Baltimore

Donald W. Reynolds Inaugural Visiting Professor
"The Aging Process of the Heart"

December 2003 New York Cardiovascular Symposium
"Rebuilding the Damaged Heart"

January 2004 Washington University School of Medicine, St. Louis
"Cardiac Stems Cells and Cellular Aging"

January 2004 Medical Academy of Rome
"Aging of the heart"

January 2004 Medical University of South Carolina
"Cardiac Aging is a Risk Factor at the Cellular Level"

February 2004 New York Presbyterian Hospital/Cornell Weill Medical Center
"Stem Cells and the Aging of the Heart"

February 2004 University of Torino, Italy
"Stem Cells and the Myocardial Repair"

March 2004 Robert Wood Johnson Medical School
 Highland Park, NJ
"Repair of the Old Heart"

April 2004 Cardiovascular Cell and Gene Therapy Conference II
 Cambridge, MA
"Cardiac Stem Cells"

April 2004 American Society for Investigative Pathology
 Annual Meeting at Experimental Biology
 Washington DC
"Myocardial Regeneration"

"Stem Cells and Cardiac Aging"

May 2004 CRT 2004
 Evening Symposium: Cell Therapy
 Washington DC
*"Biologically Significant Transdifferentiation of
 Bone Marrow-Derived Progenitor Cells into
 Cardiac Myocytes Occurs"*

May 2004 ISAC XXII International Congress
 Montpellier, France
"Cardiac Stem Cells"

May 2004 EuroPCR

- Paris, France
"Natural Capability of Cardiac Regeneration"
- May 2004 Accademia Nazionale dei Lincei
 Rome, Italy
"Cardiac Stem Cells: Repair of the Damaged Heart"
- June 2004 Toronto International Heart Failure Summit
 Toronto, Canada
"New Concepts in Cardiac Regeneration: Intrinsic Cardiac Progenitor Cells Myocardial Regeneration after Injury"
- June 2004 First International Conference on Cell Therapy for Cardiovascular Diseases, New York
"Stem Cell Mobilization and Homing"
- June 2004 Leopoldina Symposium of Cardiovascular Healing
 Wurzburg, Germany
"Molecular Basis of Cardiac Cell Therapy"
- June, 2004 First International Meeting on Coronary Pathophysiology
 Siena, Italy
"Cardiac Stem Cells and the Repair of the Heart"

"Stem Cells and Myocardial Infarction: Lessons from Experimental Models"
- August, 2004 XVII World Congress International Society for Heart Research
 Brisbane, Australia
Landmark Lecture: "The Damaged Heart"

"Stem Cell Reserve: Ready to Repair the Heart"
- September 2004 University of California, Los Angeles
 Borun Visiting Professor at Cardiology
"Cell Therapy and the Infarcted Heart"
- September 2004 Brazilian Society of Cardiology
 Keynote Lecture,
"Do Bone Marrow Cells Transdifferentiate?"
- October 2004 Center of Excellence, Naples, Italy
 Keynote Lecture,
"The Future of Regenerative Medicine"
- November 2004 Tulane University, New Orleans,
 The Eight Annual James W. Fisher Distinguished
 Lectureship in Pharmacology

- “Cardiac Stem Cells and Myocardial Injury”*
- November 2004 American Heart Association
New Orleans
“Cardiac Stem Cell Homing and Growth”
- November 2004 Therapeutic Angiogenesis. The New Paradigm of Stem Cell
Milan, Keynote Lecture,
“The Human Heart Has Regenerative Capacity”
- November 2004 EMBL, Monterotondo, Rome
*“Identification and Characterization of Human Cardiac Stem
Cells”*
- December 2004 Annual New York Cardiac Center Lecture
“Mending the Broken Heart”
- December 2004 San Raffaele Hospital
University Vita Salute Medical School, Milan
*“Cardiac Stem Cells from Animal to Man: The San Raffaele
Project”*
- January 2005 Second Meeting of Cardiovascular Stem Cells, Tokyo
“Cardiac Stem Cells in Ischemic Heart Failure”
- January 2005 Chiba University Medical School, Chiba
“Myocardial Regeneration and Stem Cell Commitment”
- January 2005 Tokyo University Medical School, Tokyo
“Mechanisms of Cardiac Repair”
- January 2005 Keio University Medical School, Tokyo
“Bone Marrow Cells and their Ability to Transdifferentiate”
- January 2005 ISN Forefronts in Nephrology, Karuizawa, Nagano, Japan
“Identification and Expansion of Human Cardiac Stem Cells”
- February 2005 International LDD&R Meeting and Cardiovascular Course on
Molecular Strategies, Geneva, Switzerland
“Human Cardiac Stem Cells and Their Role in Cardiac Repair”
- February 2005 Virginia Commonwealth University, Richmond, Virginia
“Repair of the Damaged Heart”
“Tissue-Specific Adult Stem Cells”
- March 2005 Japanese Society for Regenerative Medicine, Osaka, Japan
“Growth Reserve of the Mammalian Heart”

March 2005	Institute Pasteur Euroconferences Tissue repair and ulcer/wound healing: Molecular mechanisms, therapeutic targets and future directions, Paris, France <i>"Stem Cells and Myocardial Regeneration"</i>
April 6, 2005	40 th Annual Neuton Stern Visiting Professorship University of Tennessee Health Science Center, Memphis, Tennessee <i>"Stem Cells and Cardiac Repair"</i>
April 5, 2005	FASEB Meeting: Regenerative Medicine, San Diego, California <i>"The Regenerative Potential of the Human Heart"</i>
April 5, 2005	FASEB Meeting: Regenerative Capacity of the Heart, San Diego, California <i>"Circulating (Extra-Cardiac) Stem Cells"</i>
May 4-6, 2005	Symposium "Frontiers in Regenerative Medicine", Baveno, Italy <i>"Resident Human Cardiac Stem Cells"</i>
June 2005	Symposium "Heart Failure: Different Therapies for Different Etiologies" Milan, Italy <i>"The Future of Cell Therapy in Heart Failure"</i>
June 2005	XIV Scientific Meeting of the Cardiovascular Pathology Study Group, Udine, Italy <i>"Cardiac Stem Cells"</i>
June 2005	State University of New York, Downstate Medical Center New York, New York, <i>"Stem Cells and Myocardial Regeneration"</i>
July 2005	University of Illinois, Chicago <i>"Regeneration of the Human Heart"</i>
September 2005	Heart Failure Society of America, Novartis Symposium Boca Raton, Florida <i>"New Horizons: Stem Cells"</i>
September 2005	Italian Society of Cardiovascular Research Keynote Lecture, Bologna <i>"The Regeneration Potential of the Adult Myocardium"</i>
September 2005	National Institute on Aging National Advisory Council on Aging, Bethesda <i>"Human Cardiac Stem Cells"</i>

October 2005	Stem Cell Day, Florence <i>“Regenerating the Myocardium: a Reality Today”</i>
October 2005	IPSEN Foundation Life and Death of the Vascular Tree, Paris <i>“Plasticity of Stem Cells”</i>
November 2005	University Vita-Salute San Raffaele, Milan <i>“Myocardial Regeneration: From Animal to Man”</i>
January 2006	Meeting of the Collegio Ghislieri, Pavia, Italy <i>“The Self-Renewing Properties of the Mammalian Heart”</i>
February 2006	NHLBI, Bethesda <i>“Restructuring the Infarcted Heart”</i>
March 2006	International Society for Applied Cardiovascular Biology La Jolla, California <i>“Cardiac Stem Cell Niches”</i>
March 2006	TAU Forum on Stem Cells and Regenerative Medicine Tel Aviv, Israel <i>“Ischemic Cardiomyopathy and Myocardial Regeneration”</i>
May 2006	Donald W. Reynolds Foundation (Johns Hopkins) Cardiovascular Research Clinical Research Symposium Guest Speaker, Las Vegas <i>“Translational Studies with Cardiac Stem Cells”</i>
May 2006	Leopoldina Symposium of Cardiovascular Healing, Wurzburg, Germany <i>“The Molecular Phenotype of Human Cardiac Stem Cells”</i>
May 2006	National Meeting on “Stem Cells and Circulating Progenitor Cells” - Rome, Italy <i>“Cardiac Stem Cells”</i>
May 2006	Goethe University, Frankfurt, Germany <i>“Bone Marrow and Cardiac Progenitor Cells”</i>
May 2006	University of Iowa, Iowa <i>“Tissue-Specific Adult Stem Cells”</i>
May 2006	Stem Cell and Cancer Therapeutic Symposium, Providence, RI <i>“Promise of Stem Cell Therapy”</i>
June 2006	Harvard Medical School Brigham and Women’s Hospital, Boston, MA

“Cardiac Stem Cells”

- June 2006 International Society for Heart Research Symposium, Toronto, Canada
“Mechanisms of Cardiac Repair”
- June 2006 Montefiore-Einstein Heart Center, Department of Cardiothoracic Surgery, Bronx, New York
“Human Cardiac Stem Cells”
- June 2006 German Academy of Sciences “Leopoldina”, Wurtzburg, Germany
“Ischemic Cardiomyopathy in Humans”
- June 2006 University of Frankfurt, Germany, Division of Cardiology
“Regenerative Potential of the Adult Human Heart”
- August 2006 Keystone Symposium, Keystone, Colorado
“A Biological Coronary Bypass”
- August 2006 Genzyme, Cambridge, Boston
“Cell Therapy and the Human Heart”
- September 2006 First International Symposium on Stem Cells, Salvador, Bahia
“Reconstructing the Heart: The Role of Cardiac Stem Cells”
- September 2006 International Symposium, Sao Paulo, Brazil
Biological Cardiac Repair: A Critical Appraisal
“Cardiac Repair: The Role of Stem Cells”
- September 2006 Symposium on Regenerative Medicine, Bologna, Italy
“Rebuilding the Coronary Vasculature”
- September 2006 The Heart Failure Symposium, Parma, Italy
Lecture Luigi Vitali-Mazza:
“The Heart is a Self-Renewing Organ”
- September 2006 Congress on Characterization, Preparation and Clinical Application of Non-Hematopoietic Stem Cells, Tübingen, Germany
“Regenerative Potential of the Adult Heart”
- October 2006 Future of Heart Health Symposium, Winnipeg, Canada
“Can Stem Cell Research Change the Face of Cardiovascular Disease?”
- October 2006 First Fraunhofer Life Science Symposium, Leipzig, Germany
“Stem Cells and Cardiac Repair”

October 2006	Napoli Cuore 2006, Napoli, Italy <i>"Rebuilding the Failing Heart"</i>
November 2006	American Heart Association Meeting, Chicago, IL Cardiovascular Seminar <i>"Plasticity of Bone Marrow Cells"</i>
November 2006	American Heart Association Meeting, Chicago, IL Featured Research Lecture <i>"Human Cardiac Stem Cells"</i>
December 2006	67 th Congress of the Italian Society of Cardiology Rome, Italy Andrea Cesalpino Lecture <i>"A Biological Coronary Bypass"</i>
December 2006	67 th Congress of the Italian Society of Cardiology Rome, Italy <i>"Stem Cell Therapy for Myocardial Infarction"</i>
January 2007	Howard Hughes Institute, University of Chicago Chicago, IL <i>"The Heart as a Regenerative Organ"</i>
January 2007	Brigham and Women's Hospital Harvard Medical School, Boston, MA <i>"Myocardial Regeneration by Hematopoietic Stem Cells"</i>
February 2007	Southern Regional Meeting, New Orleans, LA State of the Art Lecture <i>"Progenitor Cells and Rebuilding the Failing Heart"</i>
March 2007	Northwestern Cardiology Grand Rounds Northwestern University, Chicago, IL <i>"Cardiac Stem Cells"</i>
April 2007	Cedars-Sinai Medical Center University of California Medicine Grand Rounds, Los Angeles <i>"Rebuilding the Failing Heart"</i>
April 2007	Cardiology Grand Rounds Saint Luke's Roosevelt Hospital, Columbia University New York <i>"Stem Cells and Mechanisms of Cardiac Repair"</i>
April 2007	San Diego State University, San Diego

- Special Lecture
“Biological and Clinical Implications of Stem Cell Transdifferentiation”
- April 2007 Heart Failure Symposium, Milan, Italy
“Stem Cell Plasticity”
- April 2007 Second Annual Wisconsin Stem Cell Symposium
 Heart & Blood, Madison, WI
“Hematopoietic Stem Cell Transdifferentiation”
- May 2007 University of Miami, Miami, FL
 Cardiovascular Seminar
“Stem Cell Growth and Differentiation”
- June 2007 Symposium “Cardiac Stem Cells:
 What We Need for Clinical Translation”
 La Sapienza University, Rome, Italy
“Some Like It Plastic”
- July 2007 1st Cardiovascular Research Forum
 Centro Cardiologico Monzino IRCCS, Milan, Italy
“Regeneration of the Human Heart”
- July 2007 Catholic University, Rome, Italy
“Stem Cells and Cardiac Repair”
- August 2007 4th Annual Symposium of the AHA Council on BCVS
 Cardiovascular Repair and Regeneration
 Keystone, CO
“Bone Marrow Stem Cells in Regenerating Myocardium”
- September 2007 II Simposio Internacional
 Terapias Avancadas & Celulas-Tronco
 Rio de Janeiro, Brazil
 Featured Lecture
“Bone Marrow Cells Adopt the Cardiomyogenic Fate”
- October 2007 Symposium on Cardiovascular Regenerative Medicine
 NHLBI, Bethesda
“Human Cardiac Stem Cells”
- November 2007 American Heart Association Meeting
 Orlando, FL
“The Human Heart: a Self-Renewing Organ”
- November 2007 American Heart Association Meeting
 Orlando, FL

Featured Research Lecture, International Symposium
on Stem Cells and Myocardial Regeneration
“Coronary Vascular Progenitor Cells”

March 2008 Children’s Hospital Medical Center
Cincinnati, OH
“Progenitor Cells and Myocardial Regeneration”

March 2008 Cardiocentro Ticino
Lugano, Switzerland
“Rebuilding the Failing Heart”

March 2008 Catholic University
Rome, Italy
“Vascular Regeneration”

April 2008 Duke University
Durham, North Carolina
“Cardiac Homeostasis and Myocardial Regeneration”

April 2008 Cardiovascular Cell and Gene Therapy Conference IV
New York
“A Biological Coronary Bypass”

May 2008 Medicine Grand Rounds
Brigham and Women’s Hospital
“Human Cardiac Stem Cells”

June 2008 Parma Per Un Cuore Sano Symposium
Colorno, Italy
“Mechanisms of Cardiac Repair”

June 2008 University of Parma Medical School
Parma, Italy
“Bone Marrow Cell Transdifferentiation”

June 2008 New Frontiers in Heart Failure
Naples, Italy
“Progenitor Cells in the Post-Infarcted Heart”

June 2008 Premio Montevergine
Naples, Italy
“The Human Heart: A Self-Renewing Organ”

July 2008 Lugano Stem Cell Meeting
Cardiocentro Ticino
Lugano, Switzerland
“Progenitor Cell Classes in the Human Heart”

July 2008	5 th Annual Symposium of the AHA Council on BCVS Heart Failure: Molecular Mechanisms and Therapeutic Targets Keystone, CO <i>"Regenerating the Human Heart"</i>
August 2008	The 9 th US-Japan-Asia Dialogue on Cardiovascular Diseases Tokyo, Japan <i>"Progenitor Cells and Myocardial Regeneration"</i>
September 2008	Stems of the Heart-Myocardial and Vascular Rebirth Boston; Honoree Lecture <i>"Redefining Myocardial Biology"</i>
October 2008	Scientific Symposium for the Eugene Braunwald Endowment for the Advancement of Cardiovascular Discovery and Care Boston <i>"Congestive Heart Failure and Remodeling"</i>
October 2008	NIH-NHLBI Bethesda <i>"Progenitor Cells and Myocardial Damage"</i>
October 2008	Boston University Boston <i>"Progenitor Cells and Cardiac Repair"</i>
November 2008	American Heart Association Meeting New Orleans <i>"Myocyte and Coronary Vascular Progenitor Cells of the Adult Heart"</i>
November 2008	American Heart Association Meeting New Orleans <i>"Redefining Myocardial Biology"</i>
November 2008	Implementation of Cell Therapy for Cardiovascular Disease Washington D.C. <i>"Novel Cell Products"</i>
December 2008	Il Futuro Della Sanita' Bologna, Italy <i>"Stem Cells"</i>
January 2009	Brigham and Women's Hospital Hematology Seminar Boston <i>"Redefining Myocardial Biology"</i>

February 2009	Post Graduate Course on Cardiometabolic Syndrome and Atherosclerosis Lisboa, Portugal Keynote Lecture <i>“Cardiac Regeneration for The Failing Heart”</i>
March 2009	Catholic University of the Sacred Heart Rome <i>“A Change in the View of Cardiac Pathophysiology”</i>
March 2009	Keystone Symposium Cardiac Disease: Development, Regeneration, and Repair Asheville, NC <i>“Myocardial Regeneration”</i>
March 2009	73 rd Annual Scientific Meeting of the Japanese Circulation Society Osaka, Japan Mikamo Lecture: <i>“Mechanisms of Cardiac Repair”</i> <i>“Generation of Immunocompatible Myocardium within the Transplanted Heart”</i>
May 2009	Cardiovascular Division, Brigham & Women’s Hospital Cardiovascular Medicine: Review and Update for the Practitioner Boston, MA <i>“Formation of Large Coronary Arteries by Cardiac Progenitor Cells”</i>
May 2009	Rome Cardiology Forum 2009 An Update Meeting of the European Society of Cardiology Rome, Italy <i>“Cardiac and Vascular Progenitor Cells in the Adult Human Heart”</i>
May 2009	McGill University Health Centre Quebec, Canada <i>“Bone Marrow Cells and Cardiac Repair”</i> Lucian Award Lecture: <i>“Redefining Myocardial Biology”</i>
June 2009	Wayne State University Cardiovascular Research Institute Detroit, MI <i>“Myocardial Regeneration”</i>
July 2009	Columbia University

New York, NY
"The Human Heart"

July 2009 American Heart Association
 Basic Cardiovascular Sciences Conference 2009
 Lake Las Vegas, NV
"Stem Cells and Cardiac Regeneration"

September 2009 13th Annual Scientific Meeting
 Heart Failure Society of America
 Boston, Ma
"Cardiac Stem Cells"

September 2009 7th Annual Symposium of Center for Heart Failure Research
 Oslo, Norway
"Cardiac Pathobiology"

September 2009 Udine Medical School
 Venice, Italy
"Mechanisms of Cardiac Repair"

October 2009 Department of Hematology
 Dana Faber Cancer Institute
 Boston, MA
"Bone Marrow Cell Transdifferentiation"

October 2009 Temple University School of Medicine
 Philadelphia, PA
"Cardiac Regeneration"

November 2009 Harvard Medical School
 Pathology Grand Rounds
 Boston, MA
"Stem cell-mediated renewal of cardiac myocytes in health and disease"

November 2009 Texas A&M Health Science Center College of Medicine
 5th International Conference
 Austin, TX
"Stem Cells in the Adult Mammalian Heart"

November 2009 American Heart Association
 Scientific Sessions
 Orlando, FL
"Human Vascular Progenitor Cells"

November 2009 Università Degli Studi Di Milano
 Milan, Italy

“Stem Cells and the Heart”

- December 2009 Universita' Degli Studi Di Napoli
Naples, Italy
“The Human Heart: a Regenerative Organ”
- February 2010 San Diego State University
San Diego, CA
“The Heart: A Dynamic Organ”
- February 2010 University of Minnesota
Minneapolis, MN
“Redefining Human Myocardial Biology”
- February 2010 Brigham and Women's Hospital
Boston, MA
“Cardiomyogenesis in the Adult Human Heart”
- February 2010 NHILBI Seminar
Bethesda, MD
“Plasticity of Bone Marrow Cells”
- February 2010 2010 BMT Tandem Meeting
Orlando, FL
“Mechanisms of Cardiac Regeneration”
- March 2010 74th Annual Scientific Meeting of the Japanese Circulation Society
Kyoto, Japan
“Regeneration Potential of the Human Heart”
- April 2010 Cardiovascular Research Seminar Series
Beth Israel Deaconess Medical Center
Boston, MA
“Cardiomyogenesis in the Adult Human Heart”
- April 2010 College and the Chinese Society of Cardiology
Guangzhou, China
“Human Cardiac Stem Cells”
- April 2010 Novartis Cardiovascular Update
Shanghai, China
“Plasticity of the Human Heart”
- May 2010 University of Louisville Seminar Series
Louisville, KY
“Cardiomyogenesis in the Adult Human Heart”
- May 2010 4th Oriental Congress of Cardiology

- Shanghai, China
"The Mammalian Heart: A Self-Renewing Organ"
- May 2010 Fudan University
 Shanghai, China
"Bone Marrow Cells and Cardiac Repair"
- May 2010 Cardiology Forum 2010
 Rome, Italy
"Myocyte Turnover in the Human Heart"
- May 2010 Frontiers in Cardiology
 Parma, Italy
"Human Cardiac Biology: A Novel Perspective"
- June 2010 Lario Meeting on Cardiovascular Regenerative Medicine
 Lecco, Italy
"New Facts in Cardiovascular Physiology"
- June 2010 Department of Hematology and Oncology
 Parma Medical School
 Parma, Italy
"Stem Cells: A Non-Surgical Approach for the Repair of the Myocardium and Coronary Arteries"
- June 2010 2nd Lugano Stem Cell Meeting
 Cardiocentro Ticino
 Lugano, Switzerland
"Cardiomyocyte Growth in Heart Failure"
- July 2010 V Symposium on Cardiovascular Healing
 Wurzburg, Germany
"Stem Cells for Myocardial Healing: New Perspectives from Basic Science"
- September 2010 I.R.C.C.S. Policlinico San Donato
 Milan, Italy
"Human Cardiac Stem Cells"
- September 2010 55th SIB National Congress
 Milan, Italy
"The Adult Human Heart: Growth, Reserve and Regeneration"
- October 2010 Harvard Lung Conference & CIMIT Inhalation Technology
 Workshop
 Boston, MA
"Tissue-Specific Adult Stem Cells"

October 2010	Focus on Heart Failure – Hot Topics Bergamo, Italy <i>“The Adult Mammalian Heart: Cardiac Regenerative Processes”</i>
November 2010	American Heart Association Scientific Sessions Chicago, IL <i>“Cardiomyogenesis”</i>
December 2010	Visiting Professor Stanford University Medical School Stanford, CA <i>“Human Myocardial Biology”</i>
January 2011	CSB Science Massachusetts General Hospital Boston, MA <i>“Myocardial Regeneration”</i>
February 2011	2011 Medical Student Research Forum New York, NY <i>“The Human Heart: Mechanism of Tissue Repair”</i>
March 2011	Catholic University of Rome Rome, Italy <i>“Tissue Specific Adult Stem Cells”</i>
March 2011	Reynold’s Oklahoma Center on Aging Oklahoma City, OK <i>“Human Adult Stem Cells”</i>
March 2011	Lovelace Respiratory Research Institute Albuquerque, NM <i>“Cardiomyogenesis in the Mammalian Heart”</i>
April 2011	St. Luke’s Medical Center Manila, Philippines <i>“Human Myocardial Biology”</i> <i>“Plasticity of Hematopoietic Stem Cells”</i>
May 2011	ACTS 2011 New York, NY <i>“Growing New Heart”</i>
May 2011	ISCI Symposium on Stem Cell Therapy and Biology Miller School of Medicine at University of Miami

- Miami, FL
"Human Lung Stem Cells"
- May 2011 The Chaim Sheba Medical Center, Affiliated to the Tel-Aviv University
 Tel Aviv, Israel
"The Human Heart: A Self-renewing Organ"
- "Stem Cells in the Lung"*
- May 2011 Merkezi Klinika
 Baku, Azerbaijan
"The Pathology of the Human Heart"
- June 2011 New Jersey Medical School
 Cardiovascular Research Institute
 Newark, NJ
"Tissue Specific Adult Stem Cells"
- June 2011 From Mice and Men to Earth and Space: Joint NASA-NCI Workshop on Lung Cancer Risk Resulting from Space and Terrestrial Radiation
 National Cancer Institute
 Rockville, MD
"Evidence for Human Lung Stem Cells"
- July 2011 Isth 2011 Congress
 Kyoto, Japan
"The Heart and Lung: Two Self-Renewing Organs"
- September 2011 San Diego State University Heart Institute
 San Diego, CA
"The Human Lung"
- September 2011 Division of Cardiovascular Medicine
 Brigham and Women's Hospital
 Boston, MA
"The Scientific Basis of Cell Therapy in Myocardial Infarction"
- September 2011 Heart Failure Society of America 15th Annual Scientific Meeting
 Hynes Convention Center
 Boston, MA
"Stem Cells and Cardiomyogenesis: Overview of Stem Cell Biology"
- September 2011 BRI Biomedical Research Symposium
 Brigham and Women's Hospital
 Boston, MA

	<i>“Stem cells and the Human Lung”</i>
September 2011	University Hospital of Udine Udine, Italy <i>“Regenerative Potential of the Lung”</i>
September 2011	Caratterizzazione Immunofenotipica Delle Cellule Staminali Cogest Verona, Italy <i>“Cardiac Stem Cells”</i>
October 2011	Faculty of Medicine Porto, Portugal <i>“The Biology of the Human Lung”</i>
October 2011	Basic Sciences European Association for Cardiothoracic Surgery Lisbon, Portugal <i>“Tissue Specific Adult Stem Cells”</i>
November 2011	AHA Scientific Sessions Orlando, FL <i>“Cardiac Regeneration in the Adult Heart: Mechanisms and Therapeutic Opportunities”</i> <i>“Myocyte Turnover in the Aging Human Heart”</i> <i>“Progenitor Cells in Myocardial and Vascular Regeneration”</i>
November 2011	Montefiore Medical Center/Albert Einstein College of Medicine New York, NY <i>“Human Cardiac Stem Cells and their Clinical Implications”</i>
February 2012	Case Western Reserve University Harrington-McLaughlin Heart & Vascular Institute Cleveland, OH <i>“Cardiac Stem Cells”</i>
March 2012	The Feinstein Institute for Medical Research North Shore-Long Island Jewish Health Manhasset, New York <i>“Cardiac Stem Cells and Human Heart Failure”</i>
March 2012	The 76 th Annual Scientific Meeting of the Japanese Circulation Society Fukuoka, Japan <i>“Clinical Use of Autologous Human Cardiac Stem Cells”</i>
March 2012	Texas Heart Institute Satellite Symposium, Future Direction of Stem Cells in Cardiovascular Disease and

- American College of Cardiology (ACC Scientific Sessions
Chicago, IL
“c-Kit Stem Cell Therapy of Ischemic Cardiomyopathy”
- April 2012 New York Medical College Grand Rounds
New York, NY
“Identification of Human Cardiac Stem Cells and their Clinical Implications”
- April 2012 XIII Symposium Enfermedad Pulmonar Obstructiva Cronica
COPD Symposium
Barcelona, Spain
“Evidence for Human Lung Stem Cells”
- May 2012 The 6th Oriental Congress of Cardiology (OCC 2012)
Shanghai China
“Cardiac Stem Cell and Heart Regeneration”
- May 2012 Frontiers in Cardiac and Vascular Regeneration
International Centre for Genetic Engineering and Biotechnology
Trieste, Italy
“Cardiac Stem Cell and The Failing Human heart”
- June 2012 World Congress of International Society of Adaptive Medicine
Meeting; Keynote Lecture, Bucharest, Romania
“Mechanism of Cardiac Repair”
- July 2012 Council BCVS, AHA
New Orleans, LA
“Role of Stem Cells in Cardiac Aging”
- September 2012 St. Boniface General Hospital Research Centre
Winnipeg, Canada. Medal of Merit.
“Identification of Human Cardiac Stem Cells and their Clinical Implications”
- September 2012 Temple University School Of Medicine
Cardiovascular Research Center
Philadelphia, PA
Seminar: *“Human Lung Stem Cells”*
- September 2012 Universita Politecnica delle Marche Facolta di Medicina e
Chirurgia
Ancona, Italy
Feature lectures: *“Tissue Specific Adult Stem Cells”*

“Cardiac Stem Cells and Human Heart”

- September 2012 Catholic University of the Sacred Heart
Rome, Italy
Feature lecture: *“Myocardial Aging and Heart Failure in Humans”*
- October 2012 Pittsburgh International Lung Conference
Pittsburgh, PA
“Evidence for Human Lung Stem Cells”
- October 2012 University of Buffalo
Oliver P. “OP” Jones MD, Endowed Lectureship
Buffalo, NY
“Human Cardiac Stem Cells and their Clinical Implications”
- November 2012 Frontiers in Cardiovascular Regeneration International
Symposium
San Diego, CA
“Turnover of Human Cardiomyocytes”
- November 2012 NHLBI Division of Lung Disease Cell Therapy of Lung
Diseases Workshop
“Cardiac Stem Cells for Ischemic Cardiomyopathy: SCIPIO”
- November 2012 3rd Annual Mayo Clinic Robert and Arlene Kogod Center on
Aging Conference- Senescence and Healthspan
Rochester, MN
*“The Renewal of Myocyte, Endothelial Cells, and Fibroblasts
with Physiological Aging and Cardiac Diseases in Humans”*
- December 2012 The New York Cardiovascular Symposium (NYCVS)
New York, NY
*“LV Dysfunction and the Scarred Myocardium: A Therapeutic
Response to c-kit Positive Cardiac Stem Cells”*
- December 2012 5th International Congress- Aortic Surgery and Anesthesia
“How To Do It”
Milan, Italy
Keynote Lecture: *“Cardiac Stem Cells and Myocardial Repair”*
- December 2012 KU University
Leuven, Belgium
*“Retrospective BIRTHdating of Cardiac Myocytes, Endothelial
Cells, and Fibroblasts”*
- “The Lung Is a Self-Renewing Organ”*
- “Cardiac Stem Cell Therapy: Update on the SCIPIO Trial”*

April 2013	Icahn School of Medicine at Mount Sinai New York, NY <i>"Human Cardiac Stem Cells and Chronic Heart Failure"</i>
April 2013	Second International Vatican Adult Stem Cell Conference Regenerative Medicine: A Fundamental Shift in Science and Culture Rome, Italy <i>"Cardiomyocyte Regeneration"</i>
April 2013	2 nd Yangtze River International Congress of Cardiology Chongqing, China <i>"Clinical Implications of Human Cardiac Stem Cells"</i>
May 2013	University of Kansas Medical Center Grand Rounds Kansas City, KS <i>"Stem Cells and Cardiac Cell Turnover"</i>
June 2013	University of Iowa Carver College of Medicine Iowa City, IA <i>"Lung Stem Cells"</i>
June 2013	Virginia Commonwealth University School of Medicine Richmond, VA <i>"Human Heart Failure"</i>
August 2013	7 th International Cardiovascular Research Conference Hangzhou, China <i>"Human Cardiac Stem Cells and Myocardial Regeneration"</i>
August 2013	Fudan University Shanghai, China <i>"The Human Lung: A Self Renewing Organ"</i>
October 2013 Symposium	University of Alabama at Birmingham Cardiovascular Birmingham, AL William W. Featheringill Keynote Lecture: <i>"Cardiac Regeneration with Resident Cardiac Stem Cells: A Paradigm Shift in Cardiovascular Medicine"</i>
November 2013	AHA Scientific Sessions Dallas, TX <i>"cKit+ Cells in Cardiac Repair"</i> <i>"Endogenous Cardiomyocyte Renewal"</i>

December 2013	The New York Cardiovascular Symposium (NYCVS) The Hilton New York, NY <i>“New Therapeutic Findings on LV Dysfunction and the Scarred Myocardium”</i>
February 2014	Loyola University Chicago Stritch School of Medicine Chicago, IL <i>“Cardiac Regeneration in the Adult Heart”</i>
March 2014	University of Michigan Ann Arbor, MI <i>“Adult Stem Cells”</i> <i>“Mechanisms of Cardiac Repair”</i>
April 2014	XXV Convegno Airt Associazione InterRegionale Trapianti Torino, Italy <i>“New Therapeutic Approaches with Stem Cells for Heart Disease”</i>
May 2014	Westchester Medical Center “Finding Success in Heart Failure” White Plains, NY <i>“A Novel Class of Adult Cardiac Stem Cells”</i>
May 2014	International Society for Heart Research North American Section Meeting ISHR 2014: Novel Strategies to Combat Heart Failure Miami, FL <i>“Human Cardiac Stem Cell Classes”</i>
May 2014	JIKEI Symposium for Frontier in Cardiovascular Regulation and Regeneration Toyko, Japan <i>“Cardiac Stem Cells for Myocardial Regeneration”</i>
May 2014	Mini-Symposium “Cell Death, Stem Cell and Heart Failure” Shanghai, China <i>“A Novel Class of Cardiac Stem Cells for Myocardial Regeneration”</i>
May 2014	Institute of Molecular Medicine, Peking University Beijing, China <i>“Mechanism of Cardiac Stem Cell Activation and Differentiation”</i>
June 2014	4th Lugano Stem Cell Meeting 2014 Lugano, Switzerland <i>“Adult Cardiac Stem Cells”</i>

September 2014	16 th Annual Scientific Congress of Chinese Society of Cardiology (CSC2014 and QICC2014) Hangzhou, China <i>“A Novel Class of Cardiac Stem Cells and Myocardial Repair”</i>
September 2014	Creighton University School of Medicine Distinguished Lecture Series Omaha, Nebraska <i>“Cardiac Regeneration in the Adult Heart”</i>
October 2014	Pittsburgh-Munich International Lung Conference Aging and Lung Disease: Clinical Impact and Cellular and Molecular Pathways Pittsburgh, PA <i>“The Human Lung: A Self Renewing Organ”</i>
October 2014	I.S. Ravdin Lecture in the Basic and Surgical Sciences 2014 Clinical Congress American College of Surgeons San Francisco, CA <i>“Lung Regeneration”</i>
May 2015	12 th International Symposium on Stem Cell Therapy & Cardiovascular Innovations Madrid, Spain <i>“Importance of the cells. What are we using?”</i>

E. Report of Clinical Activities

January 1973-September 1986	Anatomical Pathology: 851 autopsies personally performed as a resident and as a member of the Department of Pathology, University of Parma
January 1973 - July 1980 April 1985 - September 1986	Supervisor of Autopsy Service at the Department of Pathology, University of Parma
January 1973 - July 1980 (one week per month)	Surgical Pathology: Responsible for surgical pathology, Department of Pathology, University of Parma
April 1985 - September 1986	Supervisor of Surgical Pathology

PART III: Bibliography

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Letters to the Editor

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