

Curriculum Vitae

Paolo Fiorina, MD PhD

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Name: Paolo Fiorina, MD PhD

Current Position:

- Chief of Endocrinology, Fatebenefratelli-Sacco-Melloni Hospitals, Milan, Italy
- Professor of Endocrinology, University of Milan, Italy
- Director of the International Center for T1D, Sacco Hospital, Milan, Italy
- Lecturer of Pediatrics, Harvard Medical School, Boston, MA, USA
- Associate Scientist, Boston Children's Hospital, Boston, MA, USA
- Co-founder and Chief Scientific Officer, Enthera Therapeutics, Milan, Italy
- Co-founder and Advisor, Altheia Science, Milan/NY, Italy/NY, USA
- Co-founder and Chief Scientific Officer, Nephris, Milan, Italy

Office Address:

- International Center for T1D, Pediatric Clinical Research Center Fondazione Romeo ed Enrica Invernizzi, Department of Biomedical and Clinical Science L. Sacco, University of Milan, Via Giovanni Battista Grassi, 74, 20157, Milan, Italy
- Nephrology Division, Boston Children's Hospital, Harvard Medical School, 300 Longwood Ave. Enders Building, Boston MA 02115

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paolo.fiorina@childrens.harvard.edu

Education

1982-1987	B.S. (Bachelor of Science), Scientific Institute Sant'Alessandro, Bergamo, Italy
1987-1993	M.D. (Medical School), Cum laude, University of Milan, Milan, Italy
1993-1997	Residency Allergy/Clinical Immunology, Parma University, Italy
1998-2000	Fellowship Endocrinology, San Raffaele Institute, Milan, Italy
2000-2004	Ph.D., University of Milan, Milan, Italy
2004-2008	Residency Internal Medicine, San Raffaele University, Milan, Italy
2004-2006	Fellowship Nephrology, Brigham Women's Hospital, Harvard Medical School, Boston

Postdoctoral Training

1993-1997 Residency Allergy/Clinical Immunology, Parma University, Italy
1998-2000 Fellowship Endocrinology, San Raffaele Institute, Milan, Italy
2004-2008 Residency Internal Medicine, San Raffaele University, Milan, Italy
2004-2006 Fellowship Nephrology, Brigham Women's Hospital, Harvard Medical School, Boston

Academic and Hospital Appointment

1999-2004 Physician, San Raffaele Scientific Institute, Milan, Italy
2004-2006 Fellow, Brigham and Women's Hospital, Harvard Medical School, Boston
2006-2009 Instructor, Boston Children's Hospital, Harvard Medical School, Boston
2009-2016 Assistant Professor, Boston Children's Hospital. Harvard Medical School, Boston
2016-2017 Part-time Physician at San Raffaele Scientific Institute, Milan
2016-current Part-time Associate Scientist at Boston Children's Hospital, Boston
2017-2022 Associate Professor, Chief of Endocrinology, University of Milan, Italy
2022-current Full Professor, Chief of Endocrinology, University of Milan, Italy

Early achievements track-record

I have published more than 200 peer-reviewed articles in major international journals, with >11,000 citations yielding an H-index of 59. The publication list includes: 4 NEJM, 2 Lancet, 1 Cell Stem Cells, 3 Circulation, 1 Endocrine Reviews, 14 Diabetes, 9 JCI, 15 Diabetes Care and counting.

Committee Service National and International

2009-present Juvenile Diabetes Research Foundation (JDRF) Medical Science Review Committee (MSRC) for Islet Biology and Transplantation
2010-present Transplant Meeting Committee at the San Raffaele Hospital, Milan 2011-present American Heart Association (AHA) Grant Committee
2015-present American Society of Transplantation (AST) Grant Committee

Professional Societies

2005 American Society of Nephrology (ASN)
2005 Italian Society of Diabetes (SID)
2005 European Society of Transplantation (ESOT)
2005 American Society of Transplantation (AST)
2009 American Diabetes Association (ADA)
2011 Italian Society of Nephrology (SIN)
2011 The Transplantation Society (TTS)
2011 International Pancreas & Islet Transplant Association (IPITA)

Grant Review Activities

2004 Grant Commission of the European Community, European Community
2010 UK Diabetes Research
2010 Netherland Stem Cell Program
2011 National Fund for Scientific and Technological Development
2012 Chilean Government Reviewer for the Italian Ministry of Health
2012 Czech Science Foundation (GAČR)
2012 American Diabetes Association (ADA)
2012 Catalyst Imaging program Harvard Medical School
2012 Flanders Odysseus funding programme (FWO Belgium)
2012 FWF Austrian Science Fund
2013 French National Research Agency (ANR)
2014 American Heart Association (AHA) Grant Committee

2014 Juvenile Diabetes Research Foundation (JDRF) Grant Committee
 2015 American Diabetes Association (ADA) Fellowship Grant Review
 2019 Peer Reviewed Medical Research Program (PRMRP) DIS-DIA-1 PANEL
 2019 Roma University, Grant Review
 2019 American Diabetes Association (ADA) Preliminary Grant Review
 2019 American Diabetes Association (ADA) Post-Doctoral/Fellowship Grant Review
 2021 Austrian Society of Science

Editorial Activities

Journals

2004 International Journal of Cardiology
 2005 Kidney International
 2005 Transplantation
 2006 Circulation
 2007 Diabetes Care
 2007 Acta Diabetologica
 2007 Diabetic Medicine
 2007 American Journal of Transplantation
 2007 Atherosclerosis
 2007 Cell Transplantation
 2007 Expert Opinion in Pharmacotherapy
 2008 Diabetes
 2008 Transplant International
 2008 Clinical Immunology
 2009 Cells Tissue Transplantation & Therapy
 2009 Expert Review in Clinical Immunology
 2009 Cell Biology International
 2009 Diabetologia
 2010 Clinical Journal of the American Society of Nephrology (CJASN)
 2010 Nutrition, Metabolism and Cardiovascular Diseases (NMCD)
 2010 PLOS One
 2010 Diabetes Obesity and Metabolism (DOM)
 2010 Expert Opinion in Therapeutic Targets
 2010 Proteomic
 2010 New England Journal of Medicine (NEJM)
 2011 Differentiation
 2012 Human Immunology
 2012 Neuromolecular Medicine (NMM)
 2012 Bone Marrow Transplantation (BMT)
 2012 Journal of the American College of Cardiology (JACC)
 2012 Cell Proliferation
 2013 Experimental Eye Research (EER)
 2013 Stem Cell Research (SCR)
 2013 Cytotherapy
 2013 Hypertension Research (HTR)
 2013 Diabetes Research and Clinical Practise (DIAB)
 2014 Heart, Lung and Vessel (HLV)
 2014 Pharmacological Research
 2014 Journal of American Society of Nephrology (JASN)
 2014 The Lancet Diabetes & Endocrinology
 2015 Nephrology Dialysis and Transplantation (NDT)
 2016 Molecular Therapy
 2016 Nature Communication
 2016 Stem Cells
 2016 Cell Stem Cell

2016 Cell Report
2016 Nature Communications
2016 JCI Insights
2019 Lancet Diabetes and Endocrinology

Editorial Board

2011 Experimental Diabetes Research
2011 PLOS One
2013 Biomed Research International
2013 Journal of Diabetes Research
2013 World Journal of Diabetes
2014 Heart Lung and Vessel
2014 Pharmacological Research
2014 Acta Diabetologica
2015 Transplantation
2023. Journal of Endocrinology Investigation (JENI)

Honors and Prizes

2003 Young Investigator Award of Italian Society of Diabetes (SID)
2006 Young Investigator Award American Society of Transplantation (AST)
2007 Young Investigator Award American Society of Nephrology (ASN)
2007 AST-JDRF Faculty Grant, American Society of Transplantation (AST)
2007 Young Investigator Award, American Association of Immunology (AAI)
2008 Young Investigator Award of the American Diabetes Association (ADA)
2008 Career Development Award, Juvenile Diabetes Research Foundation (JDRF)
2010 Career Development Award, American Society of Nephrology (ASN)
2013 Grant-In-Aid, American Heart Association (AHA)

Report of Funded Projects

Past

AST-JDRF Faculty Grant: \$80,000

83559-2007 (Fiorina PI), 07/01/2007-06/30/2009

Title: Targeting the CXCR4-SDF axis to mobilize autologous hematopoietic stem cells in islet transplantation

Role: PI

The aim of this grant is to address the effect and mechanism of Hematopoietic stem cells mobilization in islet transplantation.

JDRF R&D Academic Grant: \$700,000

17-2008-368 (Sayegh PI), 04/01/2008-03/31/2010

Title: Mesenchymal Stem Cell: A Novel Therapeutic Strategy for Type 1 Diabetes Mellitus Role: Co-PI

The aim of this grant is to understand the role of allogeneic or syngeneic mesenchymal stem cells in diabetes onset in a murine model of type 1 diabetes the NOD mice.

BADERC-Endocrinology Research Pilot Feasibility Grant: \$50,000

83460-2008 (Fiorina PI), 05/01/2008-04/30/2010

Title: Targeting B7.1 in diabetic nephropathy Role: PI

The aim of this grant is to address the role of B7.1 expression at a podocytes levels in type 2 diabetes. This grant will be focusing on targeting B7.1 as a new therapeutic approach for diabetic nephropathy.

BADERC-Endocrinology Research Pilot Feasibility Grant: \$15,000

83460-2010 (Fiorina PI), 07/01/2010-06/01/2011

Title: Targeting B7.1 in diabetic nephropathy Role: PI

The aim of this grant is to address the role of B7.1 expression at a podocytes levels in type 2 diabetes. This grant will be focusing on targeting B7.1 as a new therapeutic approach for diabetic nephropathy.

ASN (American Society of Nephrology): \$200,000

2-2008-531 (Fiorina PI) 04/01/2010-03/31/2012

Title: The role of B7.1 in diabetic nephropathy Role: PI

The aim of this grant is to address the role of B7.1 and to target B7.1 with CTLA4-Ig in diabetic nephropathy aiming at preventing the development of the disease.

Novartis IIRP: \$752,000

2-2008-531 (Fiorina PI) 04/01/2010-03/31/2012

Title: ³¹P-MR spectroscopy evaluation of the effect of short-term treatment with Aliskiren on kidney -ATP/Pi level in kidney transplanted patients

Role: PI

The aim of this grant is to address the effect of Aliskiren on kidney metabolism as evaluated with ³¹P-MR spectroscopy.

Children's Hospital Boston: \$100,000

Transplantation Research Program (Fiorina, PI) 07/01/2011-06/30/2012 Title: Role of B7.1 in Diabetic Nephropathy

Role: PI

The main goal of this project is to develop CTLA4-Ig-based approach to cure diabetic nephropathy.

JDRF (Juvenile Diabetes Research Foundation): \$750,000

2-2008-531 (Fiorina PI) 09/01/2008-08/31/2013

Title: Role of B cells in autoimmunity and islet transplantation Role: PI

The aim of this grant is to address the role of B cells in autoimmune diabetes and in islet transplantation. Particularly, we will address if B cells depletion is a good option for islet transplanted patients.

Children's Hospital Boston: \$35,000

Transplantation Research Program (Fiorina, PI) 07/01/2012-06/30/2013 Title: Role of B7.1 in Diabetic Nephropathy

Role: PI

The main goal of this project is to develop CTLA4-Ig-based approach to cure diabetic nephropathy.

Italian Minister of Health: \$452,000

RF-FSR-2008-1213704 (Fiorina, PI) 02/01/2011-01/31/2013

Title: Immunological and regenerative properties of human cord blood mesenchymal stem cells to cure type 1 diabetes

Role: PI

The main goal of this project is to develop and characterize human mesenchymal stem cells in order to establish a novel cure for type 1 diabetes.

Harvard Stem Cell Institute DP-0123-12-00: \$166,666

80545 Diabetes Program (Fiorina, PI) 10/01/2012-09/30/2014

Title: Autologous PD-L1+ Hematopoietic Stem Cells to cure autoimmune diabetes Role: PI

The main goal of this project is to expand and newly generate PD-L1+ HSC as a potential tool to cure type 1 diabetes.

American Diabetes Association: \$160,000

Grant #7-11-MN-17 Mentor-based fellowship 07/01/2011-06/30/2015

Title: Antigen specific regulatory B cells: a new therapy for type 1 diabetes (Fiorina, PI) Role: PI

The main goal of this project is to expand regulatory B cells to cure autoimmune diabetes

Otsuka IIRP: \$98,000

(Fiorina, PI) 01/01/2013-12/31/2014

Title: The role of Copeptin as a marker of diabetic nephropathy progression: establishing a risk stratification and an enrichment strategy in the view of the Tolvaptan clinical trial Role: PI

The main goal of this project is to understand the role of copeptin as a potential diagnostic marker in the onset of diabetic nephropathy.

European Foundation for the Study of Diabetes (EFSD): \$110,000

Innovative Diabetes Program (Fiorina, PI) 07/01/2015-06/30/2016

Title: Autologous PD-L1+ Hematopoietic Stem Cells to cure autoimmune diabetes Role: PI

The main goal of this project is to expand and newly generate PD-L1+ HSC as a potential tool to cure type 1 diabetes.

Italian Minister of Health: \$483,000

RF-2010-2303119 (Fiorina, PI) 07/01/2012-06/30/2015 Title:

B7.1 on podocytes: a new therapeutic target for diabetic nephropathy Role: PI

The main goal of this project is to understand the role of B7.1 in the onset of diabetic nephropathy.

Italian Minister of Health: \$646,490

RF-2010-2314794 (Staudacher, PI) 07/01/2012-06/30/2015

Title: The effect of pancreas transplantation in diabetic patients revealed a potential novel stem cell-based mechanism that revert diabetic enteropathy

Role: Co-PI

The main goal of this project is to understand the role of B7.1 in the onset of diabetic nephropathy.

American Heart Association: \$198,000

Grant-in-Aid, 2014-2016

Title: P2X7R loss-of-function mutation is associated with accelerated cardiac allograft vasculopathy

Role: PI

The main goal of this project is to study the effect of a novel P2X7R mutation on chronic rejection

Dompè Ltd IIRP: \$297,500

Diabetes Program 2015-2017

Title: The role of the podocyte IL-8-CXCR1/2 axis in diabetic nephropathy Role: PI

The main goal of this project is to evaluate the role of IL-8 in the onset of diabetic nephropathy

Dompè Ltd IIRP: €100,000

2016-2018

Title: Targeting the IL8-CXCR1/2 in lung transplantation Role: PI

The main goal of this project is to target IL-8-CXCR1/2 axis and improve lung transplantation outcome

Fate Therapeutic IIRP: \$805,000

Stem Cells Research Grant 2015-2017

Title: The role of the podocyte IL-8-CXCR1/2 axis in diabetic nephropathy Role: PI

The main goal of this project is to evaluate the role of IL-8 in the onset of diabetic nephropathy

Current**Enthera s.r.l: € 1,050,000**

2017-2021

Title: Targeting IGFBP3 in diabetic enteropathy Role: PI

The main goal of this project is to develop a novel therapeutic improving the diabetic enteropathy
Current

Italian Minister of Health: €431,000

2018-2021

Title: A genetically-determined hyperTh17 syndrome with reduced allograft survival Role: PI

The main goal of this project is to understand the role of the hyperTh17 syndrome in reduced allograft survival.

Fondazione Invernizzi: €1,500,000

2017-2022

Title: Novel therapeutics for type 1 diabetes

The main goal of this project is to generate novel therapeutic for Type 1 diabetes onset and complications

Dompè Ltd IIRP: €600.000

2021

Title: Targeting IL-8/CXCR1-CXCR2 to unleash regulatory B cells in Type 1 diabetes

Novo-Nordisk €165.000

6/2021-6/2023

Title: E-free-Ideg

Alpha PharmaService S.r.l. €66.000

2021-2023

Title: Big Data Collection in Diabetic Patients during COVID 19

Digital Health in Diabetic patients during Covid 19

Puerage S.r.l. : €575.000

2023

Title: Association of vitamin D levels and glycometabolic control in a cohort of patients with type 2 diabetes mellitus

Aurora Biofarma S.r.l. €33.000

2023

Report of Local Teaching and Training

Teaching of Students in Courses

2003-2004 Lecturer at Nurses School at Vita e Salute University, Milan Italy

2003-2004 Lecturer Medical School at Vita e Salute University, Milan Italy

2017-current Responsible, Endocrinology course, Milan University

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2009-2017 *Negotiation skills* 3 times a year for Harvard Medical School post-docs

2010-2017 *Flow cytometry* 3 times a year for Harvard Medical School post-docs

2011-2017 *Murine models* 3 times a year for Harvard Medical School post-docs

2012-2017 *Immunological methods and techniques* 3 times a year for Harvard Medical School

2014-2017 *Writing techniques* 3 times a year for Harvard Medical School post-doc

Clinical Supervisory and Training Responsibilities

1997-2004 Supervision of Transplant fellows at the San Raffaele Hospital, Milan, Italy

Laboratory and Other Research Supervisory and Training Responsibilities

2004-2012 Responsible for islet transplant of the BWH-TRC Harvard Medical School

2004-2017 Mentoring 2 summer students/year at Nephrology Division-Boston Children's Hospital

2004-2017 Teaching Laboratories techniques at Harvard Medical School

Formally Supervised Trainees

2002-2004 Chiara Gremizzi, MD, Staff Physician, San Raffaele Institute, Milan, Italy
2006-2009 Shirine Dada, MD Staff Physician, American University of Beirut, Lebanon
2006-2009 Andrea Vergani, MD Resident, San Raffaele Scientific Institute, Milan, Italy
2006-2008 Andrea Augello Research Fellow, Transplantation, Boston
2008-2010 Francesca D'Addio, MD PhD , Assistant Professor, Milan University, Italy
2009-2010 Sonja Kleffel, BS, Research Fellow, BWH, Boston, MA
2009-2010 Alessio Mocci, MD Resident, San Raffaele Scientific Institute, Milan, Italy
2009-2010 Alessandra Petrelli, MD Resident, San Raffaele Scientific Institute, Milan, Italy
2009-2010 Michele Carvello, MD Resident, San Raffaele Scientific Institute, Milan, Italy
2011-2013 Roberto Bassi, MD Fellow, San Raffaele Scientific, Milan, Italy
2016-2019 Anna Maestroni, PhD student, University of Milan, Italy
2018-2019 Biagio Cangiano, MD MD, University of Milan, Italy
2018-2019 Elena Giuliani, MD Università San Raffaele, Milan, Italy
2019-2020 Inas Award, MD University of Milan, Italy,
2019-2020 Marta Di Stefano, MD, University of Milan, Italy
2019-2020 Marco Dell'Acqua, MD, University of Milan, Italy
2019-current Elio Ippolito, PhD student, University of Milan, Italy
2019-current Andy Joe Seelam, PhD student, University of Milan, Italy
2020-current Lara Loreggiani, PhD Student, University of Milan, Italy
2021-2022 Gianmarco Sabiu, PhD Student, University of Milan, Italy
2021-current Giada Rossi, PhD Student, University of Milan, Italy

Formal Teaching of Peers (e.g., CME and other continuing education courses)

2009-2010 Lesson to Resident of the Milan University School of Medicine

Local Invited Presentations

2011-2012 Summer class at the BCH for Italian PhD and MD students

Report of Regional, National and International Invited Teaching and Presentations

Regional

- 1) October 18, 2008: New therapeutic approaches in Type 1 diabetes. Crotone Diabetes, Italy
- 2) November 7, 2009: Attualita' e prospettive del trapianto di isole. Vibo Valentia, Italy
- 3) March 10, 2012: La terapia con le cellule staminali nel diabete di tipo 1. Milan, Italy
- 4) September 12, 2012: Immunological applications of stem cells in T1D, TRC Seminars, Boston, MA, USA
- 5) February 1, 2103: Targeting P2X7R in alloimmune response. Pediatric Transplant Center Meeting, Boston Children's Hospital, Boston, MA, USA
- 6) April 6, 2013: American Diabetes Association Leadership Conference. Westborough, MA
- 7) October 16, 2013: A clinically relevant PD-L1+HSC-based immunotherapy for T1D. Harvard Stem Cells Institute (HSCI) Think tank. Boston
- 8) December 13, 2013: Update on islet transplantation. Pediatric Transplant Center (PTC), Boston Children's Hospital, Boston, MA, USA.

National

- 1) December 17, 2007: Role of B cells in autoimmune diabetes: Studies in NOD mice, The Ninth Annual Harvard Autoimmunity Symposium. Harvard Medical School, Boston, MA, USA

- 2) May 29, 2008: Pancreas alone Vs. Islet Transplantation-Current Controversies. American Transplant Congress, Toronto, Canada
- 3) April 1, 2009: New immunological strategy in islet transplantation. Diabetes Research Institute, University of Florida. Miami, FL, USA
- 4) May 30, 2009: Mesenchymal stem cells (MSCs) in autoimmune disease. American Transplant Congress, Boston, MA, USA
- 5) May 30, 2009: B cells making it on the VIP list in autoimmune diabetes and islet transplantation. American Transplant Congress, Boston, MA, USA
- 6) December 3, 2009: Islet transplantation for type 1 diabetes: Benefits and new immunological strategies. Northwestern University, Chicago, IL
- 7) May 3, 2010: Reversing (or Halting) the Curse of Chronic Graft Dysfunction in Transplanted Patients. Regulus Inc. San Diego, MA, USA
- 8) May 4, 2010: Proteomics Reveals Novel Oxidative and Glycolytic Mechanisms in Type 1 Diabetic Patients' Skin Which Are Normalized by Kidney-Pancreas Transplantation. American Transplant Congress, San Diego, MA, USA
- 9) June 8, 2010: Reversing (or Halting) the Curse of Chronic Graft Dysfunction in Transplanted Patients. University of Illinois (UIC), Chicago, USA
- 10) January 31, 2013: Immunological applications of stem cells in type 1 diabetes. Thursday Seminars, Joslin Diabetes Center, Boston, USA.
- November 5, 2013: Options for the Diabetic Renal Transplant Recipient. American Society of Nephrology (ASN) Annual Meeting. Atlanta, GE, USA
- 11) February 7, 2015: Stem cells in T1D. Fate Therapeutics, San Diego, CA
- 12) April 3, 2015: Extracellular ATP and P2X7R: a dangerous liaison. University of Miami, FL.
- 13) June 5, 2015: Mesenchymal Stem Cells. American Diabetes Association (ADA) Boston, MA
- 14) June 5- 9, 2015: Symposium "Next Generation of Beta Cell Replacement, Mesenchymal Stem Cells, American Diabetes Association, Boston, MA, USA
- 15) October 23-24, 2015: Effect of Finerenone on Albuminuria in Patients With Diabetic Nephropathy: A Randomized Clinical Trial, SID Lombardia, Milan, Italy
- 16) December 2-5, 2020: 28° Congresso Nazionale SID – Digital Version, Rimini, Italy
- 17) September 10 – 11, 2021 Diabetes and Covid 19: what is changing after the perfect storm, Baveno VB, Italy
- 18) November 27-30, 2021 Panorama Diabete, Riccione RN, Italy
- 19) April 7-9, 2022, Re-Change in Cardiology, Torino, Italy
- 20) May 20-21, 2022 Journey in the diabetes 2022, VI Giornate Diabetologiche Valtellinesi, Sondrio, Italia
- 21) October 14-15, 2022, 28° Congresso Interassociativo AMD_SID Lombardia, Milan, Italy
- 22) October 26-29, 2022 29° Congresso Nazionale SID, Rimini RN, Italy

International

- 1) May 17, 2008: Islet cells transplantation. European Society of Endocrinology, Berlin, Germany
- 2) May 26, 2008: New strategies in diabetes. From islet transplantation to immune intervention for type 2: What's next? University of Milan, Milan, Italy
- 3) April 22, 2009: New strategies for type 1 diabetes: from islet transplantation to stem cells. Università di Bologna, Bologna, Italy
- 4) May 4, 2009: New approaches in diabetic nephropathy: From immune intervention to stem cells therapy. University of Milan, Milan, Italy
- 5) October 1, 2009: Pancreatic islet cell transplant for treatment of Diabetes. CAST, Congress of the Asian Society of Transplantation, Beirut, Lebanon
- 6) October 2, 2009: Outcomes and Clinical effectiveness of Islet Transplantation. CAST, Congress of the Asian Society of Transplantation, Beirut, Lebanon
- 7) October 3, 2009: Stem cell therapy for the treatment of diabetes. CAST, Congress of the Asian Society of Transplantation, Beirut, Lebanon

- 8) October 31, 2009: New Immunological and anti-inflammatory strategies for diabetes. San Raffaele Scientific Institute, Milan, Italy
- 9) October 18, 2010: Mechanisms of Islet Allograft Loss. Congress of the Middle East Society for Organ Transplantation (MESOT), Tunis, Tunisia
- 10) October 19, 2010: Immunomodulatory and Reparative Properties of Stem Cells Therapy. Congress of the Middle East Society for Organ Transplantation (MESOT), Tunis, Tunisia
- 11) October 21, 2010: From Islet Isolation to Transplantation – Technical Aspects, Outcomes and Perspectives. Congress of the Middle East Society for Organ Transplantation (MESOT), Tunis
- 12) January 24, 2011: Novel strategies targeting allo and autoimmunity in islet transplantation. Congress of the European Pancreas Islet transplant Association (EPITA), Igls, Austria
- 13) January 24, 2011: Mesenchymal stem cells as immune modulators in islet transplantation. Congress of the European Pancreas Islet transplant Association (EPITA), Igls, Austria
- 14) October 15, 2011: Mechanisms of Immunoregulation by MSC. XXXVI Brazilian Congress of Immunology, 2011, Foz do Iguaçu, Paraná, Brazil
- 15) October 15, 2011: Treatment of autoimmune diseases with MSC. XXXVI Brazilian Congress of Immunology, 2011, Foz do Iguaçu, Paraná, Brazil
- 16) March 9, 2011: From immune mediated inflammatory diseases (IMIDs) to regenerative medicine. Università del Salento, Lecce, Italy
- 17) May 20, 2011: Immunological and regenerative properties of cord blood stem cells, Azienda Ospedaliera, Lamezia Terme, Italy
- 18) May 26, 2011: A New-Age for Cord Blood Stem Cells. San Raffaele Institute, Milan, Italy
- 19) October 11, 2011: Regenerative therapies of microangiopathy in diabetes. Italian Society of Diabetes, Riccione, Italy
- 20) January 13, 2012: Stem cells in type 1 diabetes. Università di Cagliari, Cagliari, Italy
- 21) July 12, 2012: The match against diabetic autonomic neuropathy of the gastrointestinal tract: we have to win. San Raffaele Research Seminar “Bridge Series”, Milan, Italy
- 22) October 19, 2012: Stem cell therapies for type 1 diabetes. Ferrara Association of Gynecologists, Ferrara, Italy
- 23) October 20, 2012: Stem cell therapies for type 1 diabetes. RAK Medical and Health Sciences University and Emirates Medical Association Nephrology (EMA-N), Ras Al Khaimah, UAE
- 24) October 20, 2012: Diabetic nephropathy Management Update. RAK Medical and Health Sciences University and Emirates Medical Association Nephrology (EMA-N), Ras Al Khaimah, UAE
- 25) October 20, 2012: Islet and pancreas transplant in type 1 diabetes: Benefits and novel immunological strategies. RAK Medical and Health Sciences University and Emirates Medical Association Nephrology (EMA-N), Ras Al Khaimah, UAE
- 26) January 15, 2013: Immunological and Regenerative properties of cord blood stem cells. Cosenza Lions Club, Cosenza, Italy
- 27) April 15, 2013: Stem cells in type 1 diabetes. Giornata di Studio Salute e Biotecnologie organizzata nell’ambito della XIVa edizione del Premio Sapio per la Ricerca Italiana, Firenze, Italy.
- 28) November 9, 2013: Stem Cells in type 1 diabetes. National Meeting of the Italian Association of young diabetics. Como, Italy
- 29) March 15, 2014: Stem cells in children. Italian Society of Pediatric. Milan, Italy
- 30) May 16, 2014: Options for Renal Transplant Recipient. San Raffaele Hospital, Milan, Italy
- 31) May 17, 2014: Podocyte B7-1 inhibition as a therapeutic strategy for diabetic nephropathy. European Diabetic Nephropathy Study Group (EDNSG). Royal College of Physicians, London, UK
- 32) October 17, 2014: Immunological applications of stem cells in type 1 diabetes. Update in Nephrology and Transplantation. RAK Medical District-Emirates Association of Nephrology, UAE.
- 33) October 18, 2014: Novel insights into diabetic nephropathy. Update in Nephrology and Transplantation. RAK Medical District-Emirates Association of Nephrology. Ras al-Khaimah, UAE
- 34) February 25, 2015: Novel therapies in diabetic nephropathy. Maastricht University, Belgium

- 35) April 11, 2015: Update on MSC. PPSSC (Pan Pacific Symposium on Stem Cells and Cancer Research), Hinschu Sheraton Hotel, Taiwan
- 36) April 12, 2015: Immunological applications of stem cells in type 1 diabetes. PPSSC (Pan Pacific Symposium on Stem Cells and Cancer Research), Hinschu Sheraton Hotel, Taiwan
- 37) May 15, 2015: Novel diagnostics and therapies for diabetes. Italian Society of Oftalmology (SIO). Milan Congress Center, Milan, Italy
- 38) May 16, 2015: Transplant day, San Raffaele Hospital, Milan, Italy
- 39) October 16, 2015: Update in Transplantation, Emirates Medical Association Nephrology, Ras Al Khaimah, UAE
- 40) October 23, 2015: Nuovi approcci per nefropatia diabetica, Congresso SIN, Milan, Italy
- 41) October 27, 2015, The discovery of enterostaminine "Enterostam", ERC- Consolidator Interview Step 2, European Research Council Executive Agency, ERCEA, Brussels, Belgium
- 42) January 22, 2016: Scientific Board Harmonium Pharma on T1 Diabetes, Milan, Italy
- 43) January 28, 2016: Seminar "The Discovery of Enterostaminine", Harvard Medical School BWH, Boston, MA, USA
- 44) March 10-12, 2016: La Pediatria nella Pratica Clinica, Atahotel Executive, Milan, Italy
- 45) April 18, 2016: Unveiling the "Stamin" brave new world for diabetes, cardiovascular and kidney studies, Boehringer Ingelheim Pharmaceuticals, Inc, Biberach an der Riß, Germany
- 46) May 13, 2016: How can we Delay Organ Failure before and after Transplantation?, The 13th San Raffaele Transplant Meeting, San Raffaele Hospital, Milan, Italy
- 47) June 25, 2016: The eATP/P2X7R liaison in allotransplantation, Tonji Hospital, Huanzhong University of Science and Technology, Wuhan, PR China
- 48) March 18, 2017: Update on Stem Cell in Management of Type 1 Diabetes Mellitus, Update in Nefrology and Transplantation, Emirates Association of Nephrology. Ras al-Khaimah, UAE
- 49) March 30- April 1, 2017, La Pediatria nella Pratica Clinica, Terapia immunologica nel diabete mellito tipo 1, Congress Center - Palazzo delle Stelline, Milan, Italy
- 50) April 7, 2017: Il Polmone come nuovo target del diabete melliti, Up To Date in Diabetology and Internal Medicine, SID-Società Italiana di Diabetologia e malattie del Metabolismo, Varese, Italy
- 51) April 13, 2017: XVI National Congress "Diabete-Obesità", Michelangelo Hotel, Milan, Italy
- 52) April 29-May 3, 2017: "The purinergic system". American Society of Transplant Surgeons and American Society of Transplantation, the American Transplant Congress, Chicago, IL, USA
- 53) May 27, 2017: Glifozine, Evoluzione nell'Approccio terapeutico, Milan, Italy
- 54) June, 9-13, 2017: American Diabetes Association - 77th Scientific Sessions, San Diego, CA
- 55) September, 12, 2017: Statistical Challenges in Big Data, Milan University, Milan
- 56) September, 20-22, 2017: First International Milan Nephropathology Course, Milan
- 57) September, 29, 2017: Crocevia complicanze macro-e micro-vascolari del DIABETE, Milan
- 58) November, 16, 2017: Focus in Medicina Interna, Società Italiana di Medicina Interna, Milan
- 59) November, 24-25, 2017, Convegno Milano Diabete, Therapies and Beyond, Milan
- 60) February, 7-8, 2018, Quando l'innovazione sposa la clinica, Roma Convention Center, Roma
- 61) March 2-3, 2018, Qualità nella cura e ricerca in diabetologia, Auditorium della tecnica, Roma
- 62) March 8-10, 2018, La pediatria nella clinica, Palazzo delle Stelline, Milano
- 63) March 22-24, 2018, Congresso Nazionale Agorà SIMP, Catania
- 64) April 13, 2018, The Lindsey Insera-Hughes Immune Tolerance Seminar Series, Miami, FL
- 65) April 27, 2018, Frontiers in Immunotherapy, New York Academy of Sciences Conference, NY
- 66) May 16-19, 2018, 27° Congresso Nazionale SID, PalaCongressi Di Rimini, Rimini
- 67) June 2-6, 2018, ATC, Washington State Convention Center, Seattle, US
- 68) June 19-22, 2018, International Purines Meeting 2018, Foz do Iguaçu, Brasile
- 69) June 22-26, 2018, ADA 78th Scientific Session, Orlando, USA

- 70) September 21, 2018, One day Symp Imaging and biomarkers, Milan, Italy
- 71) October 26-27, 2018, Congresso Interassociativo AMD-SID Lombardia 2018, Brescia
- 72) November 13, 2018, Giornata Mondiale del Diabete, Palazzo Pirelli, Milano
- 73) November 21, 2018, Focus Group Diabete 4.0: Terapia e Futuro, Barceló Milan, Milano
- 74) November 23, 2018, Board D-Cardio, Milano
- 75) December 14-15, 2018, Cambiamenti ed Innovazione in Diabetologia Brescia, Italy
- 76) January 7-9 2019, Tongji Hospital, China
- 77) February 1-2, 2019, Milano Diabete 2: Il Rischio Cardiovascolare, Milan University, Milano
- 78) March 8-13, 2019, Panorama Diabete, Palazzo dei Congressi di Riccione, Riccione
- 79) March 22, 2019, 15th Update in Nephrology and Transplantation, RAKMHSU, UAE
- 80) March 23, 2019, Bologna Diabete Easy, Auditorium MAST, Bologna
- 81) March 28, 2019, D-Cardio Diabete e Cuore, Ospedale Fatebenefratelli e Oftalmico, Milano
- 82) April 4-5, 2019, Sanofi Stand Alone, Milano
- 83) April 8, 2019, Lectio Magistralis, L.Palmieri, Lecce
- 84) May 5, 2019, ADG Umbria, Sala Congressi Hotel Bramante, Todi
- 85) May 10-11, 2019, DOOR Milano, Hotel Four Points, Milano
- 86) May 29, 2019, DIP Firenze, Firenze
- 87) June 1-5, 2019, ATC Boston, Boston, USA
- 88) June 11-17, 2019, ADA 79th Scientific Sessions, San Francisco, USA
- 89) September 16-20, 2019, EASD Barcelona, Spain
- 90) October 10, 2019, Diabete Integra, Milano
- 91) October 25, 2019, Neogenesi e replicazione delle insule, Genova
- 92) November 14, 2019, Giornata Mondiale del Diabete, Pavia
- 93) November 24, 2019 Nursing Education Program Diabetes in Children and Young People – Practical Perspectives Learning Objectives, Qatar National Convention Centre
- 94) October 18, 2022 13° Anniversary Sofinnova Japan Biopharma Partnering conference, Tokio, Japan
- 95) December 7, 2022 2° Annual JDRF T1D Fund Day, Boston, USA
- 96) May 18-19-20 2023 VII Giornate diabetologiche Valtellinesi Sondrio (Italy)
- 97) May 21-24 2023 Panorama Diabete-Forum Multidisciplinare e Multidimensionale) Riccione (Italy)
- 98) June 19, 2023 | San Diego, CA. The American Diabetes Association Commences its 83rd Scientific Sessions to Showcase Game Changing Diabetes Advances
- 99) June 28, July 1 2023 42° Congresso Nazionale SIE 2023 – Roma (Italy)
- 100) July 6-7 2023 12° Congresso CUEM, Torino (Italy)
- 101) September 15-16 2023 "DIABETES, TECHNOLOGY AND DIGITAL HEALTH IN THE 2020S" Bergamo (Italy)
- 102) October 2-6 2023 59° Meeting EASD Hamburg (Germany)
- 103) October 18-20 2023 ISPAD 2023 49° annual Conference Pediatric diabetes Rotterdam (Olanda)
- 104) October 20-21 2023 Congresso AMD-SID Lombardia (Italy)
- 105) November 9-10 2023 New Frontiers in Cardiovascular Disease Auditorium Galeazzi Milano (Italy)
- 106) January 12-13 2024 CONGRESS Update on Diabetes and CVD In collaboration with "Diabetes and CVD" Study Group reference group of EASD Milan (Italy)
- 107) February 15 2024 XXVIII National Medical Conference Call to action Milan (Italy)
- 108) March 6-9 2024 The 17th International Conference On Advanced Technologies & Treatments For Diabetes Firenze (Italy)
- 109) May 10-11 2024 GIORNATE DIABETOLOGICHE VALTELLINESI - L'ALTRA META' DEL CIELO" Sondrio (Italy)
- 110) April 25-26 2024 Global Advisory Board Meeting for Icodec/IcoSema Supplier ID form Toronto (Canada)

- 111) May 23-27 Tokyo-Interest and availability for Novo Nordisk Global Advisory Board
- 112) June 21-26 2024 84th Scientific Sessions Save the date for the American Diabetes Association's 84th Scientific Sessions in Orlando, FL. June 21-24, 2024 at the Orange County Convention Center.
- 113) September 9-12 2024 60th EASD Annual Meeting – Spagna, Madrid
- 114) October 18-21 2024 ISPAD 2024 Lisbona, Portugal
- 115) October 23-26 2024 30° Congresso Nazionale SID || Palacongressi Rimini. Italy
- 116) November 22-23 2024 SID Regionale Lombardia "30° CONGRESSO SID AMD LOMBARDIA
- 117) APRIL 12-13 2025 Dubai-Nephrology Update 12 & 13 April 2025
- 118) APRIL 26 2025 INNOVATION TALK: THE ART OF LONGEVITY ITALIAN PAVILLON EXPO 2025 OSAKA, JAPAN

Current Licensure and Certification

European Certification in Internal Medicine-Endocrinology
European Certification in Allergology and Clinical Immunology

Practice Activities

1993-1997 Resident, Parma University, Parma, Italy

I started in a public hospital in Parma working as a Resident in the Internal Medicine Department for 4 years. I attended twice a week an ambulatory of Allergology and Clinical Immunology, where I became confident with allergic reactions, asthma, SLE, arthritis and many other autoimmune diseases.

1999-2004 Physician Endocrinology-Diabetes, San Raffaele Scientific Institute, Milan, Italy

Full Time in Medicine, Endocrinology clinic at the Pancreas and Islet Transplantation Center San Raffaele Scientific Institute. The clinical practice was in the field of Internal medicine, Immunology and Transplant medicine.

2016-2017 Part-time Physician at San Raffaele Scientific Institute, Milan

2017-current Associate Professor, Chief of Endocrinology, University of Milan, Italy

Being the chief in the biggest Italian center for Diabetes, with 14 doctors, 7 administrative, 6 nurses and nearly 2 million of people to oversee is an amazing challenge that I am enjoying a lot. I do private ambulatory once a week.

Clinical Innovations

Introduction of flow cytometry analysis of protocol renal fine needle aspirate to early detect biomarkers of allograft rejection

Report of Technological and Other Scientific Innovations

Patents

1. Paolo Fiorina and Andrea Vergani. A method of preventing and treating type 1 diabetes, allograft rejection and lung fibrosis (by targeting the ATP/P2X7R axis). (U.S. Provisional Application Number 61/820,763 filed May 8, 2013).
2. Paolo Fiorina. Methods relating to kidney function (U.S. Provisional Application Number 61/899,337 filed November 4, 2013).
3. Paolo Fiorina and Francesca D'Addio. Inhibitor of igfbp3/tmem219 axis and diabetes (EP Provisional Application Number 15 170679.3 filed June 4, 2015).

4. Paolo Fiorina. PD-L1 Expressing Hematopoietic Stem Cells And Uses (U.S. Provisional Application Number 62/194,969 filed July 21,2015)
5. Paolo Fiorina. Treatment of type 1 diabetes and autoimmune diseases or disorders (U.S. Provisional Application Number 62/562,111 filed September 22,2017)

Thesis

2009, Dott. Gremizzi C., doctoral thesis.

Title: Islet transplantation is associated with improvement of renal function among uremic patients with type I diabetes mellitus and kidney transplants

2009, Dott. Vergani A., doctoral thesis.

Title: Laser capture microdissection as a new tool to assess graft-infiltrating lymphocytes gene profile in islet transplantation

2010, Dott. Petrelli A., doctoral thesis.

Title: Improved function of circulating angiogenic cells is evident in type 1 diabetic islet-transplanted patients.

2015, Dott. Maestroni A., doctoral thesis.

Title: Dysregulation of Intestinal Stem Cells In Crohn's Disease.

Report of Publications

Peer reviewed publications

1. **Fiorina P**, Lattuada G, Ponari O, Silvestrini C, Dall'Aglio P. Impaired nocturnal melatonin excretion and changes of immunological status in ischaemic stroke patients.- **Lancet**. 1996 Mar 9;347(9002):692-3. PubMed PMID: 8596407.
2. Astorri E, **Fiorina P**, Gavaruzzi G, Contini GA, Fesani F. Perioperative myocardial cell damage assessed by immunoradiometric assay of beta-myosin heavy chain serum levels in patients undergoing coronary bypass surgery. **Int J Cardiol**. 1996 Jul 26;55(2):157-62. PubMed PMID: 8842785.
3. Astorri E, Contini GA, **Fiorina P**, Gavaruzzi G, Fesani F. Myocardial indium-111 antimyosin uptake after uncomplicated coronary artery bypass surgery. **Int J Cardiol**. 1996 Aug;55(3):239-44. PubMed PMID: 8877423.
4. Astorri E, Manzetti G, Emanuelli C, Bianchi C, Garini A, **Fiorina P**. [Myocarditis in legionellosis. A case report]. **Minerva Cardioangiol**. 1996 Sep;44(9):429-31. Italian. PubMed PMID: 8999366.
5. Astorri E, **Fiorina P**, Gavaruzzi G, Astorri A, Magnati G. Left ventricular function in insulin-dependent and in non-insulin-dependent diabetic patients: radionuclide assessment. **Cardiology**. 1997 Mar-Apr;88(2):152-5. PubMed PMID: 9096915.
6. Astorri E, **Fiorina P**, Contini GA, Albertini D, Ridolo E, Dall'Aglio P. Diastolic impairment in asymptomatic systemic lupus erythematosus patients. **Clin Rheumatol**. 1997 May;16(3):320-1. PubMed PMID: 9184275.
7. Astorri E, **Fiorina P**, Contini GA, Albertini D, Magnati G, Astorri A, Lanfredini M. Isolated and preclinical impairment of left ventricular filling in insulin-dependent and non-insulin-dependent diabetic patients. **Clin Cardiol**. 1997 Jun;20(6):536-40. PubMed PMID: 9181264.
8. Astorri E, **Fiorina P**, Ridolo E, Contini GA, Albertini D, Dall'Aglio P. [Doppler echocardiographic study of left ventricular function in patients with systemic lupus erythematosus]. **Cardiologia**. 1997 Nov;42(11):1179-83. Italian. PubMed PMID: 9534311.
9. Secchi A, Caldara R, La Rocca E, **Fiorina P**, Di Carlo V. Cardiovascular disease and neoplasms after pancreas transplantation. **Lancet**. 1998 Jul 4;352(9121):65; author

- reply 66. PubMed PMID: 9800776.
10. Lanfredini M, **Fiorina P**, Peca MG, Veronelli A, Mello A, Astorri E, Dall'Aglia P, Craveri A. Fasting and post-methionine load homocyst(e)ine values are correlated with microalbuminuria and could contribute to worsening vascular damage in non-insulin-dependent diabetes mellitus patients. **Metabolism**. 1998 Aug;47(8):915-21. PubMed PMID: 9711985.
 11. **Fiorina P**, Lanfredini M, Montanari A, Peca MG, Veronelli A, Mello A, Astorri E, Craveri A. Plasma homocysteine and folate are related to arterial blood pressure in type 2 diabetes mellitus. **Am J Hypertens**. 1998 Sep;11(9):1100-7. PubMed PMID: 9752896.
 12. Astorri E, **Fiorina P**, Grattagliano C, Medici D, Pinelli S, Albertini D, Pincolini S, Barboso G, Albertini R. Cardiac Troponin T to evaluate myocardial protection via intermittent cold blood or continuous warm blood cardioplegia in coronary artery bypass grafting. **J Cardiovasc Surg** (Torino). 1998 Dec;39(6):797-802. PubMed PMID: 9972902.
 13. **Fiorina P**, Lattuada G, Silvestrini C, Ponari O, Dall'Aglia P. Disruption of nocturnal melatonin rhythm and immunological involvement in ischaemic stroke patients. **Scand J Immunol**. 1999 Aug;50(2):228-31. PubMed PMID: 10447930.
 14. **Fiorina P**, Astorri E, Albertini R, Secchi A, Mello A, Lanfredini M, Craveri A, Olivetti G, Quaini F. Soluble antiapoptotic molecules and immune activation in chronic heart failure and unstable angina pectoris. **J Clin Immunol**. 2000 Mar;20(2):101-6. PubMed PMID: 10821461.
 15. Astorri E, Bonetti A, **Fiorina P**. ECG mimicking acute myocardial infarction during heart involvement by lung neoplasm. **Int J Cardiol**. 2000 Jul 31;74(2-3):225-6. PubMed PMID: 11203041.
 16. La Rocca E, **Fiorina P**, Astorri E, Rossetti C, Lucignani G, Fazio F, Giudici D, Castoldi R, Bianchi G, Di Carlo V, Pozza G, Secchi A. Patient survival and cardiovascular events after kidney-pancreas transplantation: comparison with kidney transplantation alone in uremic IDDM patients. **Cell Transplant**. 2000 Nov-Dec;9(6):929-32. PubMed PMID: 11202580.
 17. **Fiorina P**, La Rocca E, Astorri E, Lucignani G, Rossetti C, Fazio F, Giudici D, di Carlo V, Cristallo M, Pozza G, Secchi A. Reversal of left ventricular diastolic dysfunction after kidney-pancreas transplantation in type 1 diabetic uremic patients. **Diabetes Care**. 2000 Dec;23(12):1804-10. PubMed PMID: 11128357.
 18. Astorri E, **Fiorina P**, Pattoneri P, Paganelli C. Persistent ST segment elevation in a patient with metastatic involvement of the heart. **Minerva Cardioangiol**. 2001 Feb;49(1):81-5. English, Italian. PubMed PMID: 11279387.
 19. **Fiorina P**, La Rocca E, Venturini M, Minicucci F, Fermo I, Paroni R, D'Angelo A, Sblendido M, Di Carlo V, Cristallo M, Del Maschio A, Pozza G, Secchi A. Effects of kidney pancreas transplantation on atherosclerotic risk factors and endothelial function in patients with uremia and type 1 diabetes. **Diabetes**. 2001 Mar;50(3):496-501. PubMed PMID: 11246868.
 20. La Rocca E, **Fiorina P**, di Carlo V, Astorri E, Rossetti C, Lucignani G, Fazio F, Giudici D, Cristallo M, Bianchi G, Pozza G, Secchi A. Cardiovascular outcomes after kidney-pancreas and kidney-alone transplantation. **Kidney Int**. 2001 Nov;60(5):1964-71. PubMed PMID: 11703616.
 21. Orsenigo E, Cristallo M, Socci C, Castoldi R, Secchi A, Colombo R, Invernizzi L, **Fiorina P**, Naspro R, Di Carlo V. Urological complications after simultaneous renal and pancreatic transplantation. **Eur J Surg**. 2002;168(11):609-13. PubMed PMID: 12699096.
 22. **Fiorina P**, de Cobelli F, Fragasso G, Fazio R, Pozza G, Del Maschio A, Secchi A. Magnetic resonance image (MRI) of an acquired aorto-pulmonary fistula, associated with cerebral and paradoxical embolism. **Int J Cardiol**. 2002 Apr;83(1):85-6. PubMed PMID: 11959389.
 23. Orsenigo E, Castoldi R, Socci C, Cristallo M, **Fiorina P**, La Rocca E, Invernizzi L, Secchi A, Di Carlo V. Advantages and disadvantages of enteric versus bladder diversion in simultaneous kidney-pancreas transplantation. **Chir Ital**. 2002 Jul- Aug;54(4):429-36. PubMed PMID: 12239751.
 24. Galbiati F, Polastri L, Gregori S, Freschi M, Casorati M, Cavallaro U, **Fiorina P**, Bertuzzi

- F, Zerbi A, Pozza G, Adorini L, Folli F, Christofori G, Davalli AM. Antitumorigenic and antiinsulinogenic effects of calcitriol on insulinoma cells and solid beta-cell tumors. **Endocrinology**. 2002 Oct;143(10):4018-30. PubMed PMID: 12239113.
25. Polastri L, Galbiati F, Bertuzzi F, **Fiorina P**, Nano R, Gregori S, Aldrighetti L, Pozza G, Secchi A, Adorini L, Davalli AM. Secretory defects induced by immunosuppressive agents on human pancreatic beta-cells. **Acta Diabetol**. 2002 Dec;39(4):229-33. PubMed PMID: 12486498.
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 27. Orsenigo E, Beretta E, Gini P, Verrecchia F, Invernizzi L, **Fiorina P**, Di Carlo V. A report of six cases of familial papillary thyroid cancer. **Eur J Surg Oncol**. 2003 Mar;29(2):185-7. PubMed PMID: 12633563.
 28. **Fiorina P**, Folli F, Bertuzzi F, Maffi P, Finzi G, Venturini M, Socci C, Davalli A, Orsenigo E, Monti L, Falqui L, Uccella S, La Rosa S, Usellini L, Properzi G, Di Carlo V, Del Maschio A, Capella C, Secchi A. Long-term beneficial effect of islet transplantation on diabetic macro-/microangiopathy in type 1 diabetic kidney-transplanted patients. **Diabetes Care**. 2003 Apr;26(4):1129-36. PubMed PMID: 12663585.
 29. **Fiorina P**, Folli F, Maffi P, Placidi C, Venturini M, Finzi G, Bertuzzi F, Davalli A, D'Angelo A, Socci C, Gremizzi C, Orsenigo E, La Rosa S, Ponzoni M, Cardillo M, Scalapogna M, Del Maschio A, Capella C, Di Carlo V, Secchi A. Islet transplantation improves vascular diabetic complications in patients with diabetes who underwent kidney transplantation: a comparison between kidney-pancreas and kidney-alone transplantation. **Transplantation**. 2003 Apr 27;75(8):1296-301. PubMed PMID: 12717219.
 30. Galbiati F, Polastri L, Thorens B, Dupraz P, **Fiorina P**, Cavallaro U, Christofori G, Davalli AM. Molecular pathways involved in the antineoplastic effects of calcitriol on insulinoma cells. **Endocrinology**. 2003 May;144(5):1832-41. PubMed PMID: 12697689.
 31. **Fiorina P**, Folli F, Zerbini G, Maffi P, Gremizzi C, Di Carlo V, Socci C, Bertuzzi F, Kashgarian M, Secchi A. Islet transplantation is associated with improvement of renal function among uremic patients with type I diabetes mellitus and kidney transplants. **J Am Soc Nephrol**. 2003 Aug;14(8):2150-8. PubMed PMID: 12874470.
 32. Orsenigo E, De Cobelli F, Salvioni M, Cristallo M, **Fiorina P**, Del Maschio A, Di Carlo V, Secchi A. Successful endovascular treatment for gastroduodenal artery pseudoaneurysm with an arteriovenous fistula after pancreas transplantation. **Transpl Int**. 2003 Sep;16(9):694-6. Epub 2003 Jun 18. PubMed PMID: 12819860.
 33. Orsenigo E, Socci C, **Fiorina P**, Cristallo M, Castoldi R, Gavazzi F, La Rocca E, Invernizzi L, Secchi A, Di Carlo V. Simultaneous pancreas-kidney transplantation: short- and long-term results. **Transplant Proc**. 2004 Apr;36(3):586-8. PubMed PMID: 15110602.
 34. De Cobelli F, **Fiorina P**, Perseghin G, Magnone M, Venturini M, Zerbini G, Zanello A, Mazzolari G, Monti L, Di Carlo V, Secchi A, Del Maschio A. L-arginine-induced vasodilation of the renal vasculature is preserved in uremic type 1 diabetic patients after kidney and pancreas but not after kidney-alone transplantation. **Diabetes Care**. 2004 Apr;27(4):947-54. PubMed PMID: 15047654.
 35. Orsenigo E, **Fiorina P**, Cristallo M, Socci C, La Rocca E, Maffi P, Invernizzi L, Zuber V, Secchi A, Di Carlo V. Long-term survival after kidney and kidney-pancreas transplantation in diabetic patients. **Transplant Proc**. 2004 May;36(4):1072-5. PubMed PMID: 15194372.
 36. **Fiorina P**, Pattoneri P, Paganelli C, Secchi A, Calbani B, Astorri E. Correlation between non-reversible thallium-201 myocardial perfusion defect and ECG criteria in the diagnosis of apical myocardial infarction. **Int J Cardiol**. 2004 Jun;95(2-3):251-4. PubMed PMID: 15193828.
 37. Orsenigo E, Cristallo M, Socci C, Castoldi R, La Rocca E, Invernizzi D, **Fiorina P**, Beneduce A, Secchi A, Staudacher C, Di Carlo V. [Simultaneous pancreas-kidney transplantation: a single center experience on 148 cases]. **Ann Ital Chir**. 2004 Sep-Oct;75(5):541-6. Italian. PubMed PMID: 15960341.

38. **Fiorina P**, Folli F, D'Angelo A, Finzi G, Pellegatta F, Guzzi V, Fedeli C, Della Valle P, Usellini L, Placidi C, Bifari F, Belloni D, Ferrero E, Capella C, Secchi A. Normalization of multiple hemostatic abnormalities in uremic type 1 diabetic patients after kidney-pancreas transplantation. **Diabetes**. 2004 Sep;53(9):2291-300. PubMed PMID: 15331538.
39. Fiorina P, Corradi D, Pinelli S, Maestri R, Lagrasta C, Buscaglia M, Davalli A, Folli F, Astorri E. Apoptotic/mytogenic pathways during human heart development. **Int J Cardiol**. 2004 Sep;96(3):409-17. PubMed PMID: 15301895.
40. **Fiorina P**, Torriani G, Gremizzi C, Davalli AM, Orsenigo E, Bruno Ventre M, Dell'Antonio G, Carlo VD, Rossini S, Secchi A. Selective intra-graft apoptosis and down-regulation of lymphocyte bcl-2, iNOs and CD95L expression in kidney-pancreas transplanted patients after anti-Thymoglobulin induction. **Transpl Int**. 2004 Nov;17(10):603-8. Epub 2004 Oct 29. PubMed PMID: 15517167.
41. Orsenigo E, Beretta E, Fiacco E, Scaltrini F, Veronesi P, Invernizzi L, Gini P, **Fiorina P**, Di Carlo V. Management of papillary microcarcinoma of the thyroid gland. **Eur J Surg Oncol**. 2004 Dec;30(10):1104-6. PubMed PMID: 15522558.
42. Venturini M, Angeli E, Maffi P, **Fiorina P**, Bertuzzi F, Salvioni M, De Cobelli F, Socci C, Aldrighetti L, Losio C, Di Carlo V, Secchi A, Del Maschio A. Technique, complications, and therapeutic efficacy of percutaneous transplantation of human pancreatic islet cells in type 1 diabetes: the role of US. **Radiology**. 2005 Feb;234(2):617-24. Epub 2004 Dec 10. PubMed PMID: 15591436.
43. Orsenigo E, **Fiorina P**, Dell'Antonio G, Cristallo M, Socci C, Invernizzi L, Maffi P, Secchi A, Di Carlo V. Gastrointestinal bleeding from enterically drained transplanted pancreas. **Transpl Int**. 2005 Mar;18(3):296-302. PubMed PMID: 15730489.
44. **Fiorina P**, Gremizzi C, Maffi P, Caldara R, Tavano D, Monti L, Socci C, Folli F, Fazio F, Astorri E, Del Maschio A, Secchi A. Islet transplantation is associated with an improvement of cardiovascular function in type 1 diabetic kidney transplant patients. **Diabetes Care**. 2005 Jun;28(6):1358-65. PubMed PMID: 15920052.
45. **Fiorina P**, Venturini M, Folli F, Losio C, Maffi P, Placidi C, La Rosa S, Orsenigo E, Socci C, Capella C, Del Maschio A, Secchi A. Natural history of kidney graft survival, hypertrophy, and vascular function in end-stage renal disease type 1 diabetic kidney-transplanted patients: beneficial impact of pancreas and successful islet cotransplantation. **Diabetes Care**. 2005 Jun;28(6):1303-10. PubMed PMID: 15920043.
46. Paroni R, Fermo I, **Fiorina P**, Cighetti G. Determination of asymmetric and symmetric dimethylarginines in plasma of hyperhomocysteinemic subjects. **Amino Acids**. 2005 Jun;28(4):389-94. Epub 2005 Apr 15. PubMed PMID: 15827687.
47. Orsenigo E, Socci C, Carlucci M, Zuber V, **Fiorina P**, Gavazzi F, Secchi A, Di Carlo V, Staudacher C. Multivariate analysis of factors affecting patient and graft survival after renal transplant. **Transplant Proc**. 2005 Jul-Aug;37(6):2461-3. PubMed PMID: 16182709.
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49. **Fiorina P**, Folli F, Ferrero E, Orsenigo E, Finzi G, Mazzolari G, Placidi C, Perego L, La Rosa S, Melandri M, Monti L, Capella C, D'Angelo A, Staudacher C, Secchi A. Morphological and functional differences in haemostatic axis between kidney transplanted and end-stage renal disease patients. **Transpl Int**. 2005. Sept; 18 (9): 1036-47. PubMed PMID: 16101724.
50. Perseghin G, **Fiorina P**, De Cobelli F, Scifo P, Esposito A, Canu T, Danna M, Gremizzi C, Secchi A, Luzi L, Del Maschio A. Cross-sectional assessment of the effect of kidney and kidney-pancreas transplantation on resting left ventricular energy metabolism in type 1 diabetic-uremic patients: a phosphorous-31 magnetic resonance spectroscopy study. **J Am Coll Cardiol**. 2005 Sep 20;46(6):1085-92. PubMed PMID: 16168295.

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Narrative Report

Beginning in my early years of medical school, I have been fascinated by diabetes and its complications, and how a successful transplantation (e.g.; pancreas or islet) could have prevented the well-known ravages of diabetes. In 2004 I joined the Nephrology Division of the Boston Children's Hospital at the Harvard Medical School, directed by Dr. Mohamed Sayegh to discover novel therapies for autoimmune diabetes and for transplant rejection. My fellowship at the Brigham and Women's Hospital allowed me to expand my research interest and to improve my expertise in the field of diabetes. After becoming a faculty member at Harvard Medical School in 2006 and Assistant Professor at the Harvard Medical School in 2009, I significantly demonstrated novel insights into rejection of islet transplantation and into immunobiological basis of type 1 diabetes. I have published 207 peer-reviewed articles in major international journals between 1996 and 2023, with 11706 citations yielding an H index of 59. My contribution to science can be summarized in the below three main areas:

1. **Effects of pancreas-islet-kidney transplantation on diabetic complications.** Patients with type 1 diabetes are at high risk for developing several complications (cardiovascular disease, kidney failure) and kidney-pancreas and islet transplantation may play a protective role in preventing their onset/progression. Therefore, I first explored the effects of restoring beta cells function on diabetic complications. I showed that full (obtained with pancreas transplantation) and partial (obtained with islet transplantation) beta-cell function prevent the progression of diabetic complications, despite the presence of immunosuppression and in some cases could

actually completely restore normal organ function. My publications document the potential effects of pancreas-islet-kidney transplantation and suggest the relevance of treating diabetic complications to improve patients' quality of life.

2. ***Novel immunotherapies for islet transplantation and type 1 diabetes.*** Successful islet transplantation cures type 1 diabetes, improves glycometabolic control, reduces hypoglycemic episodes, and halts diabetes complications. Unfortunately, the rate of functioning islet allografts at 5 years is below 30%. I established different powerful therapies that obtained remarkable prolongation of graft survival. Most of these strategies have been shown to be useful for autoimmune diabetes as well.
3. **Use of stem cells to prevent/treat autoimmune diabetes and allograft rejection.** Current approaches aiming to treat type 1 diabetes have made a negligible number of patients' insulin-independent. Many reports of clinical benefits following the use of stem cells in type 1 diabetes have sparked much interest in the utility and value of stem cell therapy as a tool to induce tolerance. With my initial studies I was able to demonstrate the importance of allogeneic mesenchymal stem cells in treating type 1 diabetes. More recently, I started to unveil the potential immunosuppressive properties of hematopoietic stem cells (HSCs), to provide important preclinical data supporting the basis for further development of stem cell-based therapies for type 1 diabetes and, potentially, for other autoimmune disorders. These data could ultimately help in the design of tolerogenic strategies in human islet cell transplantation, which is in distinct need of improvement.

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