CURRICULUM VITAE

PART I: General Information

DATE PREPARED: Nov. 2, 2012

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Place of Birth: Sao Paulo, S. P., Brazil; Naturalized United States Citizen in Oct. 2001

Education:

1981	M.D.	Faculdade Ciencias Medicas Santa Casa de S. Paulo, Brazil
1984	M.Sc.	Universite de Montreal, Canada
1989	Ph.D.	McGill University, Montreal, Canada

Postdoctoral Training:

1982	Resident	Pathology	Hospital St. Casa Sao Paulo
1984 – 1986	Fellow	Pathology	Universite de Montreal
1986 – 1988	Fellow	Exp. Medicine	McGill University
1988 – 1991	Res. Fellow	Cardiology	Mass. General Hospital

Licensure and Certification:

1981 Sao Paulo Medical License – C.R.M.: 41 574

Academic Appointments:

1988- 1992	Research Fellow, Harvard Medical School
1992-1997	Instructor in Medicine, Harvard Medical School
1998/2001	Instructor in Surgery, Harvard Medical School
08/2001-11/2009	Assistant Prof. of Surgery, Harvard Medical School
11/2009- 06/2011	Assistant Prof. of Surgery, Brown University (Research)
07/2011-	Associate Prof. of Surgery, Brown University (Research)

Hospital or Affiliated Institution Appointments:

1992- 1994	Research Associate, Harvard School of Public Health
1992- 2007	Associate Pathologist, Dept of Pathology, Brigham and Women's Hospital.
1994-1997	Staff Ph.D., Molecular Medicine Unit, Beth Israel Hospital
1997-1998	Staff Ph.D., Growth Regulation. Div., Beth Israel Deaconess Medical Center (BIDMC)
1998- 11/2009	Staff Ph.D., Cardiothoracic Div., BIDMC
2000- 11/2009	Director, Cardiothoracic Research, BIDMC
2008-	Research Associate in Pathology, Dept of Pathology, Brigham and Women's Hospital [Courtesy Staff]
11/2009-	Research Associate II, Rhode Island Hospital, Providence RI

Other Professional Positions and Major Visiting Appointments:

1986	Ad hoc Reviewer, Medical Research Council of Canada.
1995	Scientific Consultant, New England Primate Center and Harvard School of Public (Toxicology).
1996	Ad hoc Reviewer, Fundacao de Amparo a Pesquisa do Estado de Sao Paulo, Brazil.
2004-06	Managing Editor, Circulation-Surgery Supplement
2007-11/2009	Laboratory Safety Office Committee at BIDMC
2007-11/2009	Member of the Cross Cultural Committee at Harvard Medical School
2009	Member of the Brazil Studies Program Faculty Advisory Steering Group. David Rockefeller Center for Latin American Studies at Harvard University
2009	Review ad-hoc Committee member: Ad Hoc NHLBI P30
2010-	Review ad hoc Committee member: AHA - Cardiac Bio BCT4 and Clinical
2010-2013	Member (elected) Medical Faculty Executive Committee (MFEC) and Biomed Ad hoc Committee member on Faculty Policy, Brown University.
2012-	Member (elected) Advisory Committee for Honorary Degrees, Brown University
11/12-	Member (Appointed) Medical Committee on Academic Standing, Brown Medical School.

Professional Societies:

1992-95	Microscopy Society of America	member
1992-	American Heart Association, Basic Sciences	member
1992-	Paul Dudley White Society	member
1992-95	The Histochemical Society	member
2002-	North American Vascular Biology Organization	member

Community Service Related to Professional Work:

1993	Abeer Caudhuri, undergraduate, Boston University (Summer 1993, 6 hours of instruction per week)
1996	David Bolduc. Master Degree "honors list". Worcester State College. "A Comparative Study on G-Protein Levels in Cardiac Myocytes of Young and Old CD-1 Mice". Mentor with Dr. Dorothy Vatner MD, New England Regional Primate Center. Daily supervision (12 hours a week).
1999-2010	Project Success for Minority High School Students. National Institutes of Health funded educational grant, Joan Reede, MD, Program Director. Mentor and

supervisor junior/Senior High School and/or College students during the Summer (about 6 hours/week):
Vantrice Taylor (Summer of 1999); Glenn Hall, Jr. (Summer of 2000); Taneisha T. Wilson (Summer of 2001); Tara Valcimond (Summer of 2002); Jasmine Mordan-Connaly and John Howard (Summer of 2003); Alexandra Belcher and Jessica Scotland (Summer of 2004), Taneisha T. Wilson and Atheena Dy (Summer of 2005); Nathan Allukian (Summer of 2006 and 2007),

2001-2010 Project Success for Minority High School Students, National Institute of Health funded educational grant, Joan Reede, MD, Program Director. Member of the Selection Committee.

2001-2010 Exploration Program for Middle School Students, Co-sponsored by the Office of Diversity and Community Partnership and the Biomedical Science Careers Program. Mentor and Supervise a 2 hours laboratory visit of 3-4 high-school students.

2011- Judge for the Poster Session at the 10th and 11th Annual New England Science Symposium sponsored by the Harvard Medical Office for Diversity and Community Partnership and the Biomedical Science Careers Program (BSCP).

10-2011- Member (appointed) Institutional Animal Care and Use Committees (IACUC) at Lifespan Corp., Providence, RI.

07-2012- Member (appointed) Institutional Review Board **(**IRB) at Lifespan Corp., Providence, RI.

10-2012- Member (appointed) Medical Committee on Academic Standing (MCAS) of the Alpert Medical School of Brown University.

Editorial Boards:

Invited Reviewer:

Canadian Journal of Physiology and Pharmacology, Peptides, Journal of Histochemistry and Cytochemistry, Circulation Research, American Journal of Physiology, Biotechniques, Journal of Thoracic and Cardiovascular Surgery, Circulation, BMC Physiology, Physiological Genomics, ISRN Surgery, OMICS Publishers (Surgery: Open Access), The Chinese Journal of Physiology, Translational Psychiatry.

Editorial Board: Surgery: Open Access (OMICS Publishers) and Open Journal of Cardiovascular Surgery (Libertas Academica)

Awards and Honors:

1983- Roger Boucher Award of the Clinical Research Institute of Montreal

1984-1986 Fellowship Award of the Quebec Heart Foundation (Canada)

1986-1988 Fellowship Award of the Medical Research Council of Canada

1989 Postdoctoral Fellowship Award of the Fonds de la Recherche en Sante du Quebec (declined)

1989-1992 Postdoctoral Fellowship Award of the Medical Research Council of Canada

2012 M.A. (Ad Eundem) Brown University, Providence, RI USA

Part II: Research, Teaching, and Clinical Contributions:

Narrative Report of Research:

Report of Current Research Activity:

My actual research interests are two-fold:
1] Identify and characterize genes differentially regulated between patients with and without cognitive dysfunction or other complications after cardiac surgery with cardiopulmonary bypass (CPB).
2] Use experimental models to gain insights on mechanisms of cardio protection and vulnerability to necrosis and translate into patient's myocardium protection against surgical injuries/insults.

My interest in large-scale gene expression profiling started in the beginning of 1992 when I moved to Harvard School of Public Health (HSPH) after finished my 3-years postdoctoral training in molecular cardiology at Massachusetts General Hospital (MGH) with Drs R. Graham and C. Homcy. At HSPH, I was using Polymerase Chain Reaction with degenerated primers to conserved domains of protein tyrosine phosphatases (PTPs) to identify and clone vascular PTPs. This approach identified one of the first endothelial restricted PTP (manuscripts 19 and 22). At that time I had the opportunity to interact with Drs. A. Pardee and P. Liang [who were developing the technique call "Differential Display" (DD)]. I made important contributions to the technique and owned an inventor status in the final patents (patents 2 and 3). It was a very exciting time; using sets of arbitrary primers we could screen dozens of gene transcripts at once. When genomic microarray technology was introduced around 2000, the advantages over DD were substantial: we were able to screen about half of the whole genome contained in one microarray and a smooth transition to microarray followed.
I joined, in 1996, Dr. Frank Sellke from the Division of Cardiothoracic Surgery (CTS) at Beth Israel Deaconess Medical Center (BIDMC) and the human Affymetrix microarrays became commercially available around 2001, through the BIDMC Core facility. The first manuscript applying genomic microarray in the operating room was published in 2003 (manuscript 38) showing differentially expressed genes in atrial tissues of a small group of patients subjected to cardiopulmonary bypass (CPB) and later in diabetic patients (manuscript 43). More recently, we performed a more comprehensive study of 42 patients searching for differences in the blood of patients after CPB and determining association with different outcomes (manuscripts 59, 61, 62,74, and 82), in particular, the development of neurocognitive decline (NCD) after CPB. I recently wrote a proposal (RO1), as a rational progression and mandatory next step to determine whether these regulated genes are important markers for NCD and if they could be used clinically, at least, as predictors if not causative of CPB complications.
We were probably the first group to use this broad genomic approach in CTS and to have generated unique and promising results. The project is strongly developed and poised to advance translational surgical research, as is the exploding field of biomarker discovery. By generating this massive genetic information, many biological systems and network pathways are being deciphered across medical disciplines. I expect to make some meaningful contribution in CTS.

My experimental research training is broad (cell and molecular biology) yet comprehensive

(formally for about 10 years), however, my interest has always been focused in the cardiovascular system. From 1982-1989, I studied two important hormonal systems essential for blood pressure homeostasis and heart hypertrophy and failure: the renin-angiotensin-aldosterone and the Atrial Natriuretic Factor (ANF). I learned and employed very specialized techniques (light and electron microscope radioautography in vivo and later in vitro radioautography of fresh- frozen sections) that turned out to yield important and detailed microscopic (light and electron microscopy) information about ligand-receptor fate in vivo and identification and pharmacological characterization of target organs and cells of the then newly discovered ANF system. I became a well-trained microscopist/histologist and learned physiology and pharmacology of hormonal systems regulation cardiovascular and fluid homeostasis. I obtained a M.Sc. from Montreal, Ph.D. from McGill in the process and I was able to complement my training in molecular cardiology. In my postdoc at MGH, aside the intense molecular biology training, I was exposed to large animal models (dogs and pigs) of heart failure and hypertrophy through collaborations with Drs D and S Vatner (manuscript 13). At HSPH, I continued collaborating in models of heart failure/hypertrophy and helped the development of a murine model of carotid artery transplant-induced atherosclerosis with Dr Haber learning immunology of transplant in the process. Later in 1996 I spent about one year (full time) in Drs Vatner's division at the New England Primate Center in Southborough, MA where I was further exposed to experimental models of heart hypertrophy and failure.

About 8 years ago, with Dr. Sellke, we published our first 2 peer-reviewed articles (manuscripts 31 and 32) using an acute pig model of ischemia-reperfusion to test the protective effects of different compounds on myocardium infarct formation. Since then, we have published an additional 7 peer-reviewed articles (manuscripts 75, 77-79, 85, 86, 89) in the last 2 years, using this model of ischemia-reperfusion after CPB.

In one of our recent acute myocardial ischemia-reperfusion projects, where we attempt to mimic in pigs the common co-morbidities observed in the clinic (diabetes and hypercholesterolemia), we observed that pigs on a high fat diet (hypercholesterolemic) had a ~ 50% increase in cardiac tissue necrosis as compared to pigs on a normal fat diet (reference 77). Since mTOR is a master regulator integrating nutritional and caloric homeostasis in diverse cellular processes, we investigated mTOR's activities level in hypecholesterolemic pigs, and determined other downstream molecules involved in the mTOR pathway. We recently published results showing that heart mTOR (in both TORC1 and TORC2 complexes) is hyperactive in hypercholesterolemic pigs (manuscript 77). The next critical step is to determine whether mTOR hyperactivity plays a causative role for the increased myocardium necrosis observed in hypercholesterolemic pigs. Since mTOR inhibitors are in clinical use for over a decade, with established pharmacological doses and documented effects/side-effects, the pharmacological inhibition of mTOR in acute ischemia-reperfusion was proposed in an AHA Grant-In-Aid (funded from 01/2010-12/2013). These are straightforward experiments and the results should give us an answer to this pressing question close related to a clinical scenario where a considerable proportion of patients suffering from myocardial infarction are hypercholesterolemic.

At this point I am planning experiments and developing pilot projects trying to determine the sub compartment distribution of mTOR in cardiomyocytes of hypercholesterolemic pigs. In addition, our own genomic microarray data point to differential regulation of deubiquitinating enzymes in the ischemic myocardium of hypercholesterolemic pigs. Futures studies will address these possibilities.

Research Funding Information:

1992-1994 Bristol-Myers Squibb Pharmaceutical Research Institute and Harvard University to the Center for the Prevention of Cardiovascular Disease. Program Director: Late Dr. Edgar Haber. Co-Investigator: "Signal transduction in vascular cells" and

Director of the Histology Core Facility.

1997-2000 NIH Specialized Center of Research in Molecular Medicine and Atherosclerosis (SCOR). Program Director: Lewis C. Cantley
1 P50 HL 56993-01. Project #4 (Co-Investigator). " Role of RPTPmu and SHPTP2 in Vascular Endothelial Cells".

1997-2002 RO1 HL-46716 "Cardioplegia and coronary microvascular reactivity"
P.I. :Frank W. Sellke. Co-Investigator (20%).

2002-2005 RO1 HL-46716-11 "Cardioplegia and coronary microvascular reactivity"
P.I. :Frank W. Sellke. Co-Investigator (80%)

2002-2007 R01 HL-69024-01 "Surgical Intramyocardial Angiogenesis in a Swine Model"
P.I.: Frank W. Sellke. Co-Investigator (20%)

2004-2009 T32 "Cardiovascular Surgery Research training Grant"
P.I. Frank W. Sellke. Preceptor (as needed)

2008-2014 RO1 HL-46716-11 "Cardioplegia and coronary microvascular reactivity"
P.I. :Frank W. Sellke. Co-Investigator (50%)

2008-2012 R01 HL-69024-07 "Surgical Intramyocardial Angiogenesis in a Swine Model"
P.I.: Frank W. Sellke. Co-Investigator (25%)

2008-2010 RO1 HL085647-01 "Angiogenesis in a model of diabetes and endothelial dysfunction" P.I. :Frank W. Sellke. Co-Investigator (25%)

2010-2013 AHA-GIA 11GRNT5250000 "mTOR and Myocardial Ischemic Injury" P.I. : Cesario Bianchi (20%)

Report of Teaching:

1. Local Contribution:

Advisory and Supervisory Responsibilities in Laboratory Setting:

1992-Pres. Preceptor for Ph.D. thesis and postdoctoral fellows

Advisees and Trainees

1992-1994 Michel Campan, Postdoctoral Fellow, Current: Research Scientist, INSERN, Pessac, France

1998 Jose Luiz Donato, Postdoctoral Fellow, Current: Research Fellow, BIDMC

1999-2001 Eugenio Araujo, PhD candidate, Sellke / Bianchi group, BIDMC

2000-2001 Renato do Rego de Araujo Faro, Postdoctoral Fellow, Sellke / Bianchi group, BIDMC

2000-2001 Xiaodong Alec Li, medical student, Sellke / Bianchi group, BIDMC

07/2000 Maria Clorinda S. Fioravanti, D.V.M., Sellke / Bianchi group, BIDMC

2000-2001 Daniel Talmor, Anesthesia Resident, Sellke / Bianchi group. BIDMC

Sum-2001 Edny Gula, undergraduate student at Massachusetts Institute of Technology (Department of Biology).

2001-2003 Tanver Khan, MD (2nd year Surgery Resident), and Marc Ruel, MD (Post-200 Lena Perger (5th Year Medical Student). Doctoral Fellow).

2003-2004 Pierre Voisine, MD (Surgery Research fellow), Tamer Malik, MD (Surgery Research Fellow), Keith Michael (1st Harvard medical student), Jennifer Sandmeyer (1st year Harvard Medical Student), and Jeffrey Hawkes (College Student from UK).

2003-2004 Jun Feng, MD, PhD (Instructor of Surgery), Yasunari Nakai, MD (Surgery Research Fellow), Craig May (2nd year Harvard Medical Student), Bryce Wolf (2nd

	year Harvard Medical Student).
2004-2006	Basel Ramlawi, MD (Surgery Research Fellow)
2005-2007	Neel Sodha, MD (Surgery Research Fellow)
2005-2008	Richard Clements, PhD (Surgery Research Fellow)
2006-2007	Sirisha Emani, PhD (Surgery Research Fellow)
2007-2009	Robert Osipov, MD (Surgery Research Fellow)
2008-2009	Hilary Glazer (2nd year medical Student Washington University).
2008-2010	Michael Robich, MD (Surgery Research Fellow)
2009-2011	Shizu Oyamada, MD (Surgery Research Fellow), Louis Chu (Surgery Research Fellow).
Sum-2009	Mirnal Chaudhary (1st year medical student Northeastern Ohio University College of Medicine)
2009-2012	Thomas Burgess, BA (Master in Biological Sciences at Boston University).
Sum-2010	Ina Soh and Tai Ho Chin (2nd year medical students Alpert Medical School of Brown University. Alicia Chen, Robert Henl and Eric Sellke (2nd year College students at Brown, Emory, and Rensselaer Polytechnic Institute, respectively). Nicholas Sellke, 3rd year high school at Newton North High School.
Sum-2011	David Kim, Zacharias Hoffman (2nd year medical students Alpert Medical School of Brown University. Karina Verma and Michael Leber (2nd year College students at Welleslay and Eastern Nazarene, respectively).
Sum-2011	Ileana A. Torres (Alliance Summer Research-Early Identification Program). Project: " Acute myocardial infarction and the effects of Rapamycin treatment".
10/10-11/10	Caio Cesar Cardoso (6th year medical student, Santa Casa Medical School, Sao Paulo, Brazil).
10/11-11/11	Jose Victor S. Carniello (6th year medical student, Santa Casa Medical School, Sao Paulo, Brazil).
2010-2012	Antonio D. Lassaletta, MD (Surgery Research Fellow).
2011-	Nassrene Y. Elmdhun, MD (Surgery Research Fellow).
11/11-	Arthus Zanetti (5th year med. Stud., Santa Casa de S. Paulo) Research Fellow).
Sum-2012	Rahul Dalal and Robert Heinl (2nd year med. stud. Alpert Medical School of Brown University. Nicholas Karlson and Michael Leber (2nd year College students at Bates and Eastern Nazarene, respectively).
2012-	Ashraf Sabe, MD (Surgery Research Fellow).

Harvard Medical School Courses

2001	Tutor Integrated Human Physiology to 1st year Harvard Medical and Dental School students for a total of about 30 hours. Course: IN 712.0 (director Dr. B. Zetter).
2002	Tutor Human Histology and Anatomy to 1st year Harvard Medical and Dental School students for a total of about 40 hours. Course: The Human body block (director Dr. D. Goodenough).
2002	Tutor Chemistry and Biology of the Cell to 1st year Harvard Medical and dental students for a total of about 40 hours. Course: IN711.0 (director Dr. B. Spiegelman)
2002	Tutor Integrated Human Physiology to 1st year Harvard Medical and Dental students for a total of about 30 hours. Course IN 712.0 (director Dr. R. Scwartzstein)
2002	Tutor Principles of Pharmacology do 1st year Harvard Medical and Dental students for a total of about 30 hours. Course IN 705.0 (director Dr. David E.

Golan).

2003 Tutor Human Histology and Anatomy to 1st year Harvard Medical and Dental School students for a total of about 40 hours. Course: The Human body block (director Dr. D. Goodenough).

2004 Tutor Human Histology and Anatomy to 1st year Harvard Medical and Dental School students for a total of about 40 hours. Course: The Human body block (director Drs D. Goodenough and Ketty Shaffer).

2005 Tutor Human Histology and Anatomy to 1st year Harvard Medical and Dental School students for a total of about 40 hours. Course: The Human body block (director Dr. Ketty Shaffer).

2005-10 Faculty of PD II and the Assessment Team at the Center for Evaluation. Patient-Doctor II Objective Structured Clinical Examination (OSCE). Cross Cultural Care examination. Hypertension/Medication adherence Station. 5-10 hours /year.

2006 Tutor Human Histology and Anatomy to 1st year Harvard Medical and Dental School students for a total of about 40 hours. Course: The Human body block (director Dr. Ketty Shaffer).

2007 Cultural Competence Facilitator (in Introduction to the Profession Course)

2007 Tutor "The Molecular and Cellular Basis of Medicine to 1st year Harvard Medical and dental students for a total of about 40 hours. Course: IN711.0 (director Dr. Randall W. King, MD, PhD).

2007 Tutor Human Histology and Anatomy to 1st year Harvard Medical and Dental School students for a total of about 40 hours. Course: The Human body block (directors Trudy Van Houten and Cynthia McDermott).

2008 Cultural Competence Facilitator (in Introduction to the Profession Course)

2008 Tutor "The Molecular and Cellular Basis of Medicine to 1st year Harvard Medical and dental students for a total of about 40 hours. Course: IN711.0 (director Dr. Randall W. King, MD, PhD).

2008 Tutor Human Histology and Anatomy to 1st year Harvard Medical and Dental School students for a total of about 40 hours. Course: The Human body block (directors Trudy Van Houten and Cynthia McDermott).

2008 Tutor Integrated Human Physiology to 1st year Harvard Medical and Dental students for a total of about 30 hours. Course IN 712.0 (director Dr. R. Scwartzstein).

2009 Tutor "The Molecular and Cellular Basis of Medicine to 1st year Harvard Medical and dental students for a total of about 40 hours. Course: IN711.0 (director Dr. Randall W. King, MD, PhD).

Invited Research Presentations:

1992 "Cos cells expression cloning of tyrosine phosphorylated proteins". Department of Nutrition, Harvard School of Public Health

1994 "Oxidant and PDGF BB synergistically activate MAPK in smooth muscle" Department of Cardiology, St. Elizabeth Hospital, Tufts University

1996 "Role of RPTPm in vascular endothelial cells, Division of Nephrology, BIDMC, Harvard Medical School

1996 "Menadione Mediated oxidative stress potentiate PDGF BB activation of MAPK in vascular smooth muscle cells"
Vascular Biology Unit, Boston University Medical Center

1996 "Role of PTPm in vascular endothelial cells"
Department of Anesthesia, Brigham and Women's Hospital, Harvard Medical

School.

08/2009 Videoconference with Faculdade de Ciencias Medicas da Santa Casa de Sao Paulo.

02/2010 Videoconference with Faculdade de Ciencias Medicas da Santa Casa de Sao Paulo.

12/19/2011 Pulmonary Research Seminar Series, Rhode Island Hospital, Providence, RI
"mTOR and Myocardial Ischemia-Reperfusion".

04/27/2011 The Division of Surgery Research Seminar Series, Rhode Island Hospital, Providence, RI
"Effects of Diet on Experimental Myocardial Ischemia-Reperfusion Injury".

2. Regional, National, or International Contributions:

1996 "Differential Display in Cardiology"
Interview to the Brazilian cable television. Program dedicated to Science in Brazil. Discussion on the use and misuse of differential display of mRNA in Cardiology.

1996 "Differential Display in the Genome Era"
Coordination of a two days course dedicated to the use of the technique of differential display for general use in biology.
Brazilian Federation of the Societies of Biological Sciences.
Caxambu, Brazil.

1997 "Differential Display Workshop"
Teach for 3 weeks (40 hs / week) practical use of differential display in different biological models from plants to eukaryotes.
Department of Molecular Biology at the University National of Brasilia, Brazil.

2008- "Researchers of the Future" initiative. A collaboration between Faculdade de Ciencias Medicas da Santa Casa de Sao Paulo (FCMSCSP), Brazil and Harvard Medical School. Organized by the David Rockefeller Center for Latin American Studies (DRCLAS). Faculty hosting and organizer. The program brings 5 Medical students from FCMSCSP to an 8 weeks training at laboratories in the HMS and Affiliated Hospitals.

2009- "Researchers of the Future" initiative. A collaboration between Faculdade de Ciencias Medicas da Santa Casa de Sao Paulo (FCMSCSP), Brazil and Harvard Medical School (2009) and Rhode Island Hospital (2010-). Faculty hosting and Organizer. The program brings 5 Medical students from FCMSCSP to an 8 weeks training at laboratories at Rhode Island Hospital and Brown University.

Invited Presentations and Contributions:

1990 Invited speaker, "Second Messengers", Dept. of Neurology. Faculty of Medicine State University of Sao Paulo, Brazil.

1992 "Cos Cells Expression-Cloning of Tyrosine-Phosphorylated Proteins"
Department of Nutrition, Harvard School of Public Health

1994 "Oxidation and PDGF BB Synergistically activate MAPK in Rat Aorta Smooth Muscle Cells"

	St. Elizabeth Hospital, Tufts University
1994	"Oxidation and PDGF BB Synergistically active MAPK in Rat Aorta Smooth Muscle Cells" Department of Pharmacology. Boston University Medical Center
1996	"Menadione Induced Oxidative Stress Potentiate PDGF BB Activation of MAPK in Vascular Smooth muscle Cells. A Cross-talk Between Oxidant- and Peptide Growth Factor Signal Transduction". Vascular Biology Unit. Boston University Medical Center
1996	"Differential Display in the Genome Era" (Course) Coordinator and Speaker. Brazilian Federations of Experimental Biology Societies. Caxumbu, Brazil . August 21-24, 1996. Participants: Arthur Pardee, Andrew Simpson, Ruth Sager and Cesario Bianchi
1996	Interview to "Scientia". Program dedicated to science aired by Globo-Sat, Brazilian Cable Television. Tape available upon request.
1997	Invited speaker, "Role of PTPmu in vascular endothelial cells". Ludwig Institute of Sao Paulo and State University of Sao Paulo, Brazil.
1997	Invited speaker, "Menadione induced oxidative stress potentiate PDGF B activation of MAPK in smooth muscle cells. Sao Paulo Heart Institute of the University of Sao Paulo, Brazil.
07- 2001	Theses Committee at University of Brasilia (Biological Science Institute). Eugenio Araujo, DVM, PhD
09-2001	Invited Speaker, "Protein tyrosine kinase modulation by cardiopulmonary Bypass. Sao Paulo Heart Institute of the University of Sao Paulo, Brazil.
09-2001	Invited Speaker, "Protein tyrosine kinase modulation by cardiopulmonary Bypass. Federal University of Sao Paulo-UNIFESP, Brazil.
2002	Protein-kinase activites during cardiopulmonary bypass. Department of Surgery, Beth Israel Deaconess Medical Center Surgical Research Seminar Series
2004	Signal Transduction and Cardiopulmonary Bypass. Department of Surgery. "Junior Faculty Seminars In Surgery".

PART III: Bibliography:

Original articles:

1. **Bianchi C**, Gutkowska J, Thibault G, Garcia R, Genest J, Cantin M. Radioautographic localization of 125I-atrial natriuretic factor (ANF) in rat tissues. Histochemistry. 1985;82(5):441-52. PubMed PMID: 3161851.

2. Garay R, Hannaert P, Rodrigue F, Dunham B, Marche P, Genest J, Braquet P, **Bianchi C**, Cantin M, Meyer P. Atrial natriuretic factor inhibits Ca(2+)-dependent K+ fluxes in cultured vascular smooth muscle cells. J Hypertens Suppl. 1985 Dec;3(3):S297-8. PubMed PMID: 2856721.

3. **Bianchi C**, Gutkowska J, Ballak M, Thibault G, Garcia R, Genest J, Cantin M. Radioautographic localization of 125I-atrial natriuretic factor binding sites in the brain. Neuroendocrinology. 1986;44(3):365-72. PubMed PMID: 2949159.

4. **Bianchi C**, Anand-Srivastava MB, De Léan A, Gutkowska J, Forthomme D, Genest J, Cantin M. Localization and characterization of specific receptors for atrial natriuretic factor in the ciliary processes of the eye. Curr Eye Res. 1986 Apr;5(4):283-93. PubMed PMID: 3011359.

5. **Bianchi C**, Gutkowska J, De Léan A, Ballak M, Anand-Srivastava MB, Genest J, Cantin M. Fate of [125I]angiotensin II in adrenal zona glomerulosa cells. Endocrinology. 1986 Jun;118(6):2605-7. PubMed PMID: 2870918.

6. **Bianchi C**, Gutkowska J, Thibault G, Garcia R, Genest J, Cantin M. Distinct localization of atrial natriuretic factor and angiotensin II binding sites in the glomerulus. Am J Physiol. 1986 Oct;251(4 Pt 2):F594-602. PubMed PMID: 2945442.

7. **Bianchi C**, Gutkowska J, Charbonneau C, Ballak M, Anand-Srivastava MB, De Léan A, Genest J, Cantin M. Internalization and lysosomal association of [125I]angiotensin II in norepinephrine-containing cells of the rat adrenal medulla. Endocrinology. 1986 Oct;119(4):1873-5. PubMed PMID: 3757913.

8. **Bianchi C**, Gutkowska J, Garcia R, Thibault G, Genest J, Cantin M. Localization of 125I-atrial natriuretic factor (ANF)-binding sites in rat renal medulla. A light and electron microscope autoradiographic study. J Histochem Cytochem. 1987 Feb;35(2):149-53. PubMed PMID: 3025291.

9. **Bianchi C**, Thibault G, De Léan A, Genest J, Cantin M. Atrial natriuretic factor binding sites in the jejunum. Am J Physiol. 1989 Feb;256(2 Pt 1):G436-41. PubMed PMID: 2537581.

10. **Bianchi C**, Thibault G, Wrobel-Konrad E, De Léan A, Genest J, Cantin M. Atrial natriuretic factor binding sites in experimental congestive heart failure. Am J Physiol. 1989 Oct;257(4 Pt 2):F515-23. PubMed PMID: 2552831.

11. Konrad EM, **Bianchi C**, Thibault G, Garcia R, Pelletier S, Genest J, Cantin M. Localization and characterization of binding sites for circulating and cerebroventricular atrial

natriuretic factor in rat choroid plexus. Neuroendocrinology. 1990 Mar;51(3):304-14. PubMed PMID: 2157994.

12. Ishikawa Y, **Bianchi C**, Nadal-Ginard B, Homcy CJ. Alternative promoter and 5' exon generate a novel Gs alpha mRNA. J Biol Chem. 1990 May 25;265(15):8458-62. PubMed PMID: 2111318.

13. Kiuchi K, Shannon RP, Komamura K, Cohen DJ, **Bianchi C**, Homcy CJ, Vatner SF, Vatner DE. Myocardial beta-adrenergic receptor function during the development of pacing-induced heart failure. J Clin Invest. 1993 Mar;91(3):907-14. PubMed PMID: 8383704; PubMed Central PMCID: PMC288043.

14. Shi C, Russell ME, **Bianchi C**, Newell JB, Haber E. Murine model of accelerated transplant arteriosclerosis. Circ Res. 1994 Aug;75(2):199-207. PubMed PMID: 8033333.

15. Guillaume JL, Petitjean F, Haasemann M, **Bianchi C**, Eshdat Y, Strosberg AD. Antibodies for the immunochemistry of the human beta 3-adrenergic receptor. Eur J Biochem. 1994 Sep 1;224(2):761-70. PubMed PMID: 7925395.

16. Narula J, Petrov A, **Bianchi C**, Ditlow CC, Lister BC, Dilley J, Pieslak I, Chen FW, Torchilin VP, Khaw BA. Noninvasive localization of experimental atherosclerotic lesions with mouse/human chimeric Z2D3 F(ab')2 specific for the proliferating smooth muscle cells of human atheroma. Imaging with conventional and negative charge-modified antibody fragments. Circulation. 1995 Aug 1;92(3):474-84. PubMed PMID: 7634463.

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