

# CURRICULUM VITAE

**MARIA FERNANDA LEAL LOPES-VIRELLA. M.D., Ph.D.**

**Office Address:** Ralph H. Johnson VA Medical Center  
Medical University of SC  
Strom Thurmond Building, Rm 529  
114 Doughty Street  
Charleston, SC 29425

## DEGREES OBTAINED

7/31/1967	School of Medicine University of Lisbon Lisbon, Portugal	M.D. with Honors
5/12/1990	School of Medicine University of Lisbon Lisbon, Portugal	Ph.D. with Honors Internal Medicine and Biochemistry

## POST-GRADUATE CLINICAL TRAINING

1967-68	Internship Hospital Sta Maria, Lisbon, Portugal
1970-1973	Resident in Medicine Hospital Sta Maria, Lisbon, Portugal
1973-1975	Resident in Clinical Pathology Hospital Sta Maria, Lisbon, Portugal
1975-1977	Fellow in Endocrinology Medical University of SC, Charleston, SC
1977-1979	Resident in Clinical Pathology, MUSC, Charleston, SC
1979	Fellow in Clinical Pathology Medical University of SC, Charleston, SC

## **POST-GRADUATE RESEARCH TRAINING**

1968-1969 University of Birmingham Medical School, UK, Post-doctoral Fellow  
1971-1973 University of Lisbon, School of Medicine, Portugal  
Research scholarship: National Institutes of High Education  
1975-1977 Medical University of SC, U.S.A, Fellow in Endocrinology.  
1977 Massachusetts Institute of Technology, Cambridge, USA  
Robert S. Lees, Mentor

## **CERTIFICATION AND LICENSURE**

1968 License to practice Medicine, Portugal  
1975 Educational Council for Foreign Medical Students  
1979 South Carolina State Board of Medical Examiners (FLEX)  
1979 State of South Carolina License  
1984 Board Certification by the American Board of Pathology  
2005 Board Certification by the American Board of Lipidology

## **ACADEMIC APPOINTMENTS**

1977-1979 Instructor in Medicine, Medical University of South Carolina, Charleston, SC  
1979-1984 Assistant Professor, Division of Endocrinology, Metabolism and Nutrition,  
Department of Medicine, Medical University of South Carolina, Charleston, SC  
1981-1984 Assistant Professor, Department of Pathology, Medical University of South  
Carolina, Charleston, SC (joint appointment)  
1984-1989 Associate Professor, Division of Endocrinology, Metabolism and Nutrition,  
Department of Medicine and Department of Pathology, MUSC, Charleston, SC  
1987-present Tenure, Medical University of South Carolina, Charleston, SC  
1989-Present 1978 Professor, Division of Endocrinology, Diabetes and Medical Genetics,  
Department of Medicine and Department of Pathology, Medical University of  
South Carolina, Charleston, SC (primary appointment)  
1991-Present Professor, Department of Microbiology and Immunology, MUSC, Charleston,  
SC (joint appointment)  
2003- Professor, Oral and Community Health Sciences Division, Department of  
Stomatology, College of Dental Medicine, MUSC, Charleston, SC (joint  
appointment)  
2003- Professor, Bioengineering Department, Medical University of South Carolina  
and Clemson University (joint appointment)

## HOSPITAL APPOINTMENTS

1980-present	Attending, Medical University of South Carolina, Charleston, SC
1981-87	Co-Director, Diabetic and Lipid Clinic, MUSC, Charleston, SC
1984-present	Staff Physician, Ralph H. Johnson VA Medical Center, Charleston, SC
1987-Present	Chief, Nutrition Support Team, Ralph H. Johnson VA Medical Center, Charleston, SC
1987-Present	Chief, Clinical Chemistry, Immunology and Serology and Microbiology Sections, Laboratory Services, Ralph H. Johnson VA Medical Center, Charleston, SC
1989-1997	Co-Director of the Lipid Clinic, Ralph H. Johnson VA Medical Center, Charleston, SC
1996-Present	Co-Director, Cholesterol Clinic, Medical University of SC, Charleston, SC

## HONORS AND AWARDS

1978-83	Special Emphasis Research Career Award, National Heart, Lung and Blood Institute and National Institutes of Arthritis, Metabolism and Digestive Diseases
1984-86	Clinical Investigator, VA Research and Development Award
1986	John A. Colwell Award for Outstanding Contributions to Diabetes Research, American Diabetes Association, South Carolina Affiliate
1987	Developing Scholar Award - Health Sciences Foundation of the Medical University of South Carolina
1987	Squib-Preis Award for the best publication submitted to "Die Osterreichisch Gesellschaft für Innere Medizin"
1996-1998	Chair, Council on Complications, American Diabetes Association
1999-2000	President-Elect, Southeast Lipid Association
2000-2001	President, Southeast Lipid Association
2001	Edwin Bierman Lectureship Award, American Diabetes Association
2002-present	Alpha Omega Alpha
2003, 2006	Mary Jane Kugel Award, JDRFI, May 2003 and 2006
2004-2008	Member, Board of Directors, National Lipid Association
2005-2011	Member of the American Board of Clinical Lipidology
2006	VA Vision 7 Henry Middleton Award for Excellence in Research
2008-2010	Member, Institute of Medicine, National Academies

## MAJOR RESEARCH INTERESTS

- Glycation/oxidation of lipoproteins and lipoprotein metabolism in diabetes
- Macrophage activation and immune-mediated mechanisms of complications in diabetes
- LDL receptor gene regulation
- Mechanisms of endothelial dysfunction and plaque rupture

## **PROFESSIONAL ORGANIZATIONS**

Fellow of the American Heart Association  
Fellow, Council on Arteriosclerosis, Thrombosis and Vascular Biology, AHA  
Fellow, Council on Nutrition, Physical Activity and Metabolism, AHA  
Fellow, American College of Nutrition  
Fellow, American College of Pathology  
American Diabetes Association  
American Federation for Clinical Research  
Southern Society for Clinical Investigation  
American Society for Nutritional Sciences  
Society for International Nutrition Research  
Southeast Lipid Association, Past President  
National Lipid Association, Board of Directors

## **MAJOR COMMITTEE ASSIGNMENTS**

### **National and Regional**

1983-1986	Representative of the Medical University of South Carolina to the American Federation for Clinical Research and Member of the Legislation Liaison Group for the American Federation for Clinical Research.
1984-1990	Member of the Lipid-Apolipoprotein Standardization Subcommittee of the International Union of Immunological Societies.
1988	Representative of the Medical University of South Carolina to the Southeastern Region of Medical Educators in Nutrition.
1993-1996	Member of the Abstract Review Committee for the American Diabetes Association Annual meetings on the category of Lipids/Lipoproteins.
1995-1999	Member, National Lipid Education Council.
1997-2001	Member of the Abstract Review Committee for the American Diabetes Association Annual meetings on the category of Complications.
1998-2002	Member, Research Career Scientist Evaluation Committee, Department of Veterans Affairs.
2003-Present	Member, Research Career Development Committee, Department of Veterans Affairs.
2005-2011-	Member, American Board of Clinical Lipidology

### **Medical University of South Carolina**

1983	Chair, Task Force to create a course of Clinical Nutrition for Medical Students
1983.	Member, Task Force to create a course of Exercise Physiology
1985-1988	Member, University Research Committee.
1986-1990	Chair, Department of Medicine Research Development Committee,
1986-1989	Member, Molecular Cell Biology Program Admissions and Recruitment Committee.
1987	Member, Nutrition Task Force (Wellness Center).

1989-1991, 1997-00 Member, Faculty Senate, Medical University of SC  
1989-2002 Member, Medical School Curriculum Committee  
1998-2001 Member, Advisory Committee, MUSC Dietetic Internship Program.  
1998-2001 Member, College of Medicine Appointments, Promotion and Tenure Committee, Medical University of SC  
2003- Member, College of Medicine Tenure Committee, MUSC  
2004- Member, Steering Committee for the NIDDK Short-Term Research Training Program for Health professional Students  
2004- Member, Steering Committee Lipidomics and Pathobiology Training Program

### **Ralph H. Johnson VA Medical Center**

1984-1986 Member, VA Research and Development Committee.  
1988-1991 Chair, Space Subcommittee, VA Research Development Committee.  
1990-1994 Chair, VA Drug Utilization Evaluation Committee.  
1991-Present Chair, VA Nutrition Committee.  
1997-2000 Chair, VA Research and Development Committee  
2004- Member, VA Space Committee  
2004-2008 Chair, VA Research and Development Committee

### **EDITORIAL BOARDS and EDITORIAL ADVISORY PANELS**

1990-Present Portuguese Journal of Nutrition, Editorial Board  
1992-1995 Diabetes Care, Editorial Board  
1992-1995 Journal of Women's Health, Advisory Committee  
1992 Diabetes, Guest Editor  
2002-present Editor, National Lipid Association Newsletter  
2007-present Associate Editor, Journal of Clinical Lipidology

#### *Ad Hoc Reviewer for:*

American Journal of Clinical Nutrition; American Journal of Physiology; Arteriosclerosis, Thrombosis and Vascular Biology; Atherosclerosis; Biochimica Biophysica Acta; Circulation, Clinical Chemistry; Clinical Immunology and Immunopathology; Diabetes; Diabetes Care ; Diabetic Medicine; Diabetologia; European Journal of Clinical Investigation; Journal of the American Medical Association; Journal of Clinical Investigation; Journal of Lipid Research, Journal of Pharmacology and Experimental Therapeutics; Metabolism; New England Journal of Medicine; Proceedings of the National Academy of Sciences.

### **GRANT REVIEW STUDY SECTIONS**

1988-1991 American Diabetes Association, National Research Review Committee.  
1989 NIH Program Project Site Visit (PI: A.Gotto, Baylor College of Medicine, Houston, Texas).  
1991-1995 Nutrition Study Section, National Institutes of Health.

1991-1994	Endocrinology Merit Review Board, Department of Veterans Affairs
1995-2004	VA Career Development Programs (Endocrinology, Cardiovascular and Geriatrics)-Ad Hoc Reviewer
1995-Present	VA Merit Review Boards (Endocrinology, Cardiovascular and Immunology)-Ad Hoc Reviewer
1995-1999	National Institutes of Health Reviewers Reserve.
1996	NIH Program Project Site Visit (PI: A.Chait, Univ of Seattle, Seattle, WA).
1998	American Heart Association Mid-Atlantic Peer Review Research Consortium.
1998-2001	Member, Research Career Scientist Evaluation Committee, Department of Veterans Affairs
2001-present	Member, Medical Science Review Committee, Juvenile Diabetes Research Foundation International
2004-2006	Member, Research Career Development Committee, Department of Veterans Affairs
2005	Member, Integrative Physiology of Obesity and Diabetes (IPOD) Study Section, National Institutes of Health (Ad Hoc reviewer)
2005	NIH Program Project Special Review Committee (PI: Alan Tall, Columbia University, New York NY)
2008-2011	Member, SubCommittee for Endocrinology A , Department of Veterans Affairs Joint Biomedical Laboratory Research and development and Clinical Science Research and development Scientific Merit Review Board
2008-2011	Member, Vascular Biology Study Section, NIH

## **EXTRAMURAL RESEARCH FUNDING (PAST)**

### **Research Grants**

1. NHLBI and NIADDK, NIH, AM00591 SRC. "SERCA: Diabetes Mellitus – Cardiovascular " PI, \$235,405 (direct costs), 7/1/78-6/30/83.
2. American Diabetes Association: "Study of Proteinuria as an Index of Renal Function in Diabetes," PI, \$5,000 (direct costs), 11/1/79-6/30/81.
3. American Heart Association, SC Chapter: "Cell Lipoprotein Interactions in Insulin Dependent Diabetes Mellitus," PI, \$12,000 (direct costs), 7/1/83-6/30/84.
4. NHLBI, NIH, HL30929. "Lipoprotein Metabolism and Cell Lipoprotein Interactions," PI, \$202,597 (direct costs), 8/1/83-7/30/87.
5. VA Career Development Program: "VA Clinical Investigator Award," PI, \$265,000, 1/1/84-12/31/86.
6. VA Merit Review Research Program: "Lipoprotein Metabolism and Cell-Lipoprotein Interactions in Diabetes Mellitus" –Principal investigator  
\$120,438, 4/1/85-3/31/88 (years 1-3); \$320,500, 4/1/88-3/31/93 (years 4-8); \$564,645, 4/1/93-3/31/98 (years 9-13)
7. Diabetes Treatment Centers of America : "The Pathogenesis of Arteriosclerosis in Diabetes Mellitus. The Role of Abnormal Platelet-Lipoprotein Interactions," PI, \$30,000 (direct costs), 1/1/87-12/31/88.
8. American Heart Association : "Cyclosporine, Lipoprotein Metabolism and Arteriosclerosis in Heart Transplant Patients," PI, \$35,957, 7/1/90-6/30/92.

9. NIH-1 R01 NS29627-01: "Southeastern Consortium on Racial Differences in Strokes," \$160,438 (sub-contract). PI- Kenneth J. Gaines, University of Tennessee, Memphis, TN (total budget: \$1,753,458), 7/1/91-6/30/95.
10. NHLBI, NIH, R01-HL46815 : "Macrophage Activation and Lipoprotein Metabolism," PI, \$634,155, 8/1/94-11/30/2002
11. American Heart Association: "Molecular Mechanisms of LDL-receptor upregulation in Cholesterol-laden Cells," PI, \$165,000, 1/1/98-1/1/99.
12. MUSC Heart Research Center: "Post-transcriptional Regulation of Scavenger Receptor Expression," PI, \$150,000, 12/1/97-11/30/01.
13. NIH-R01 DK34818: "Epidemiology of Diabetic complications: Phase II," PI: Trevor Orchard, sub-contract to Lopes-Virella, \$90,873, 3/1/1999-2/28/01.
14. Merck & Co: "Low Density Lipoprotein Oxidation and Endothelial Dysfunction in NIDDM. Effect of Simvastatin Therapy," PI, \$32,841, 6/1/99-5/31/01.
15. NIH, PO1 HL-55782 and JDFI: "Markers and Mechanisms of Macrovascular Disease in IDDM" (Garvey W.T. -P.I.), Project 2: "Modified LDL Autoimmunity and Vascular Diseases in IDDM," Lopes-Virella - Project Leader, \$580,639, 7/1/96 - 8/31/01 (years 1-5).
16. VA Merit Review Research Program: "Lipoprotein Metabolism and Cell-Lipoprotein Interactions in Diabetes Mellitus" –Principal investigator, \$120,438, 4/1/85-3/31/88 (years 1-3); \$320,500, 4/1/88-3/31/93 (years 4-8); \$564,645, 4/1/93-3/31/98 (years 9-13); \$519,800, 4/1/98-3/31/03 (years 14-18)
17. Merck. Lipid Preceptorship Program, PI: Lopes-Virella, \$60,000, 4/15/99-12/31/03
18. Juvenile Diabetes Foundation International: "Immune Mechanisms of Micro/Macrovascular Disease in Type 1 Diabetes", Principal Investigator, \$675,000 (direct costs), 8/1/02-7/31/05

### **Clinical Trials (completed)**

1. Clinical Research International : "Lovastatin Dose Ranging Multicenter Study in Patients with Type II Hypercholesterolemia," PI, \$50,000, 7/1/87-6/30/90.
2. Merck Sharp & Dohme: "Simvastatin Compared to Lovastatin in Patients with Hypercholesterolemia," PI, \$20,232, 7/1/89-6/30/91.
3. In Vivo, Inc.: "Effect of Pravastatin on Controlling Hypercholesterolemia: A Special Patient Population," PI, \$7,768, 12/1/91-8/31/92.
4. Sandoz : "An Open-Label Study of Fluvastatin in the Treatment of Patients with Hypercholesterolemia in Clinical Practice Settings," PI, \$7,200, 6/1/93-6/1/94.
5. Merck & Co: "ExPRESS-FH (A Multicenter, Open Label Expanded Use Study to Evaluate Tolerability of Simvastatin 80 mg in Patients with Heterozygous Familial Hypercholesterolemia," PI, \$32,000, 6/1/97-12/31/98
6. Bristol-Myers Squibb: "The Collaborative Study Group Trial: The Effect of Irbesartan on Morbidity and Mortality in Hypertensive Patients with Type II Diabetes and Diabetic Nephropathy," PI, \$72,200, 9/1/98-8/30/00.
7. Parke Davis: "The Challenge Study," PI, \$69,150, 10/1/98-12/31/99.
8. Keryx Biopharm/Medpace, Inc: The Collaborative Study Group Trial: The Effect of Sulodexide in Type 2 Diabetics with Microalbuminuria or Overt Diabetic Nephropathy; Lopes-Virella (PI), 03/01/05-07/31/08

## **ONGOING EXTRAMURAL RESEARCH SUPPORT**

### **As Principal Investigator**

1. NIH, PO1-HL-55782: "Markers and Mechanisms of Macrovascular Disease in Diabetes Mellitus" \$1,894,024/year 10, \$8,371,184- total for years 6-10 (9/1/2001-8/31/2008). Principal Investigator
2. VA Merit Review Research Program: "Lipoprotein Metabolism and Cell-Lipoprotein Interactions in Diabetes Mellitus" \$145,500/year, 579,900 from 10/1/2007 to 6/30/2011 (years 23-26). Principal Investigator
3. Glaxo-SmithKline/University of Oklahoma (PI:T.Lyons): Markers and Mechanisms of Vascular Disease in Diabetes 11/10/03-11/9/08. Current year direct costs: \$103,000. Entire contract direct costs: \$546,250. Principal Investigator for MUSC subcontract
4. Juvenile Diabetes Foundation (1-2006-49): Immune mechanisms of nephropathy in type 1 diabetes. 3/1/06-2/28/09. Direct costs \$150,000/year, Total direct costs \$450,000.
5. VA Research Program: VA Cooperative Study CSP #565- Nephron D study \$80,000/yr, Total direct costs 425,400 from 7/1/2008-6/30/2013- Principal Site Investigator
6. NIH, RO1 DK081352: Biomarkers of Vascular Disease Progression in Type 1 Diabetes. \$443,996 /year \$1, 811,561 total from 9/1/2008 to 7/31/2012. Principal Investigator
7. Glaxo-SmithKline: "A clinical outcomes study of darapladib vs placebo in subjects with chronic coronary heart disease to compare the incidence of major adverse cardiovascular events (MACE). \$354,765.00; 10/10/2008 – 10/12/2012. Principal Investigator

### **As Co-investigator**

8. 5 P20 RR017696-04/ NIH/NCRR (PI: Steve London): South Carolina COBRE for Oral Health \$1,678,135/year. 09/30/02-06/30/07. (Lopes-Virella Co-Investigator)
9. VA Research Service: REAP (PIs J Raymond and G Gilkeson): Inflammatory Mediators of Renal Diseases-\$187,500/year. 1/1/05-12/31/09. (Lopes-Virella -Co-Investigator)
10. RO1 HL 077192 NIH/NHLBI (PI: A. Jaffa) Lipoproteins, CTGF and Diabetic Vascular and Renal Disease. \$250,000/year. 01/01/06-12/31/2010
11. RO1 HL (PI: S.Hammad) NIH/ NHLBI R01 HL079274-01 (PI: S. Hammad). Sphingolipid signaling induced by LDL-immune complexes. \$200,000/year, 4/1/06-3/31/2011

## **EDUCATION**

### **Mentorship of Junior Faculty**

1. Yan Huang, MD, PhD- VA Merit Review type 2 Research Program "Regulation of Matrix Metalloproteinase-1 by Oxidized LDL", \$286,800, 10/1/99-9/30/02.
2. Samar Haddad, PhD , "Sphingolipid signaling induced by LDL-immune complexes" co-mentorship with Lina Obeid, MD- 2003-present
3. J Fernandes, MD - COBRE for Oral Health, Leader of Project 1 "Epidemiological Study of Periodontal Disease and Diabetes: Cytokine genes and Inflammation Factors "(PI of COBRE: Steve London), co-mentorship with JJ. Saunders, 2003-present

## Graduate Students

Name	Role	Present Position
Richard R. Griffith	Thesis Advisor (M.D., Ph.D.) (1985-1988)	NIH post-doctoral fellow/Private Practice Allergy/Immunology Residency Univ. Chicago/ Cardiology Fellow Johns Hopkins Baltimore, MD Residency Baylor College of Medicine Houston, Texas Gladstone Research Inst, San Francisco, CA Major, US Air Force
Kendrick A. Shunk	Thesis Advisor (M.D., Ph.D.) 1989-1993	
Tharakanath Rao	Thesis Advisor Masters degree (1992-1994).	
Malabika Ghosh	Thesis advisor Ph.D. degree 1994-1996	
Daniel Atchley	Thesis advisor, Ph.D. degree 1998-2002	
Silvana Vielma	Thesis advisor, Ph.D. degree 1999-2002	
Miran Jaffa	Thesis co-advisor, PhD degree 2004-	

## MEMBER OF ADVISORY COMMITTEE OF GRADUATE STUDENTS

James K. Fleming	(Member)
William Kephart	(Member)
Jami J. Sons Page	(Member)
Leena Pravina Amarnath	(Member)

## RESEARCH TRAINEES AND VISITING SCIENTISTS

<u>Name</u>	<u>Status</u>	<u>Present Position</u>
Lillian Harstine, M.D.	Post-doctoral fellow 1981-82	Private Practice Endocrinology
David Mordes, M.D.	Post-doctoral fellow 1982-83	Private Practice Endocrinology
Robert Mountcastle, M.D.	Post-doctoral fellow 1983-84	Private Practice Endocrinology
Timothy J. Lyons, M.D.	Post-doctoral fellow 1984-86	Chief of Endocrinology University of Oklahoma Oklahoma City, OK
Jun Watanabe, M.D.	Post-doctoral fellow 1986-88	Associate Professor Kyushu University Fukuoka, Japan
Christoph Gisinger, M.D.	Post-doctoral fellow 1988-90	Professor of Medicine Univ of Vienna, Austria
Rudolph Jokl, M.D.	Post-doctoral fellow 1991	Private Practice, Assist Prof Endocrinology, MUSC
Alicia Jenkins, M.D.	Post-doctoral fellow	Senior Lecturer Melbourne

	1993	University Melbourne, Australia
Marina Mironova, M.D.	Post-doctoral fellow 1994-2000	East Carolina Univ.-Int Med Residency
Akira Takei, M.D.	Post-doctoral fellow 1996-98	Assistant Professor Kyushu University Fukuoka, Japan
Sinikka Koskinen, M.D *	Post-doctoral fellow 1996-1999	Staff Physician University of Helsinki.
Sumita Bandyopadhyay, Ph.D.	Post-doctoral fellow 1998-2000	Post-doctoral fellow Medical Univ of SC Charleston, SC
Mitsunori Masakado, MD	Post-doctoral fellow 2000-2002	Assistant Professor, Kyushu University Fukuoka, Japan
Pavel Kraml, MD**	Visiting Scientist 2002- present Fulbright Scholar	Associate Professor Charles University Prague, Czech Republic
Silvana Vielma, MD. PhD**	Post-doctoral Fellow 2002- 2003	Associate Professor, Univ Merida, Venezuela
Ja-Ran Ku, MD	Post-doctoral fellow 2003- 2004	Director Div. Endocrinology Dept Medicine, Trinity Hospital, Daegu, Korea
Lynn Poole, MD, PhD	Post-doctoral fellow 2003- present	Residency in Harvard Medical School
Alena Nareika, MD	Post-doctoral fellow 2003- 2005	Post-doctoral fellow MUSC
Antonio Saad, MD	Post-doctoral fellow 2004- 2007	Residency, General Surgery, USC/LAC USA
Souzan Abdel-Razik, MD	Post-doctoral fellow 2008-	

- JDF postdoctoral fellowship award, \$33,000/year, 7/1997-6/30/99
- \*\* Fulbright Scholar

### **RESEARCH ADVISOR FOR UNDERGRADUATE STUDENTS (SUMMER PROJECTS)**

Richard Davis, Medical University of South Carolina (1979)  
 Soyun Han, Goucher College, Maryland (1980)  
 William J. Lawing, Chapel Hill, North Carolina (1984)  
 Carolyn Cray, Rollins College, Florida (1985)  
 Cynthia Collie, Medical University of South Carolina (1985)  
 Anne Kulze, Medical University of South Carolina (1986)  
 Andrea Williams, Medical University of South Carolina (1987)  
 E.J. Prijoles, SC Governor's School for Science and Mathematics (1992)  
 Greg Niemer, Medical Student, Medical University of South Carolina (1992)  
 Christina Altman, College of Charleston, Charleston, SC (1993, 1994, 1995)  
 Nafees Bin Zafar, Academic Magnet High School (1994, 1995). Won first place in the 1999-2000  
 SC Junior Science and Humanities Symposium, Columbia, SC (12/95)  
 Rachel Rackley, State of SC Governor's School for Sciences and Mathematics (1996). Won first

place in the 1999-2000 SC Junior Science and Humanities Symposium, Columbia, SC (12/96)  
Nathan Nussbaum, State of SC Governor's School for Sciences and Mathematics (1997)  
Andrew Fleming, College of Charleston (1998)  
Kevin Huang, Ohio State University (1998)  
Michael Wertheimer, University of Colorado (1998)  
Antuan Crawford, Academic Magnet High School (1998)  
Shan Wu, State of SC Governor's School for Sciences and Mathematics (1999). Won first place in the 1999-2000 SC Junior Science and Humanities Symposium, Columbia, SC (12/99)  
Octavia Smalls, Claflin College (1999)  
Leslie Fielder, South Carolina Governor's School for Science and Mathematics (2000)  
Fran Anderson, Dartmouth College (2000)  
Gregor Krings, Medical Scientist Program, Medical University of South Carolina (2000, 2001)  
Adam Gorod, Porter-Gaud High School (2001). Won 2<sup>nd</sup> place on MUSC Research Day  
David McCarty, South Carolina Governor's School for Science and Mathematics (2001)  
Ryan Wilson, South Carolina Governor's School for Science and Mathematics (2002)  
Jeffrey Abrams, South Carolina Governor's School for Science and Mathematics (2002)  
Meriana Martin, Dental School, Medical University of SC, Charleston, SC (2002)  
Arlene Mendez, University of Puerto Rico, Puerto Rico (2002). Won 1<sup>st</sup> place on MUSC Research Day.  
Katrina Hering, Medical University of SC (2004)  
Edward Crosswell, Medical University of SC (2006)

## **OTHER TEACHING ACTIVITIES**

### **For Medical Students**

1982-1987	Introduction to Clinical Reasoning, sophomore medical students, <i>Small Group Preceptor</i>
1984-2000	Pathology and Laboratory Medicine Course, sophomore medical students <i>Lecturer and Small Group Preceptor</i>
1984-Present	Physical Diagnosis Course, sophomore medical students
1986-2000	Clinical Nutrition Course, junior medical students <i>Course Director, Lecturer and Small Group Preceptor</i>
1999-Present	GCRC/Cardiovascular Risk Factor Management, Senior Elective
2000-2002	Nutrition in Health and Disease, Freshmen, sophomores and juniors <i>Course Director, Lecturer and Small Group preceptor</i>
2001-Present	Course of Immunology and Infectious Diseases, sophomore medical students, <i>Lecturer</i>
2004-Present	Seminars for MD/PhD students, MUSC, <i>Lecturer</i>
2005-2007	Pathophysiology of Disease, Course for Physician assistant students, <i>Lecturer</i>
2007-Present	Pathology and Nutrition, Obesity Day for sophomore medical students, <i>Lecturer</i>
2007-Present	Clinical Pathology Cases Discussion, Sophomore Medical Students

### **For Graduates and post-graduates**

1974, January	Physiopathology Basis and Laboratory Detection of Dysproteinemias, Ciudad Sanitaria Jose Antonio, Zaragoza, Spain, <i>Lecturer</i>
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1974, Mar/Apr	II Basic Immunology Course, Gulbenkian Institute of Science, Oeiras, Portugal, <i>Lecturer</i>
1979, October	Management of Diabetes and Endocrine Disorders, Hilton Head, South Carolina, <i>Lecturer</i>
1982	Lipid and Steroids, MCBP Program, Medical University of SC, <i>Lecturer</i>
1991	38th Annual Postgraduate Course, American Diabetes Association, San Diego, California, <i>Lecturer</i>
1984-Present	Research Conferences, Endocrine Rounds and Clinic Preceptorship for Endocrinology Fellows and Medicine Residents, MUSC
1990-Present	Housestaff Core Lectures, MUSC
2002-2005	Advanced Course of Cardiology for Graduate students, MUSC, <i>Lecturer</i>
2006	Foundations in Biomedical Sciences (Core curriculum course of the College of Graduate studies #701/702) MUSC

### MEETINGS/SYMPOSIA/WORKSHOPS

1990, May 11	Management of Lipid Disorders, Charleston, South Carolina, <i>Program Chair</i>
1991, Dec 7-8	Diabetes and Lipids Connection: Novel Approaches to its Diagnosis and Treatment, Charleston, South Carolina, <i>Program Chair</i>
1992, Dec 12	Lipid Disorders - Strategies for Successful Treatment of Women, Elderly, and Post-coronary Bypass Patients, Charleston, South Carolina, <i>Program Chair</i>
1991, June 20	Satellite Symposium on Diabetes and Macrovascular Complications, XIV International Diabetes Federation Congress, Charleston, South Carolina, <i>Program Chair</i>
1992-2000	Southeast Annual Lipid Conferences, <i>Program Committee Member</i>
1994, Nov 12-13	Satellite Symposium on Diabetes and Macrovascular Complications, XV International Diabetes Federation Congress, Osaka, Japan, <i>Program Committee Member</i>
1997, Jan 10	Diagnosis and Management of Lipid Disorders in Diabetes, Charleston, SC, <i>Program Committee Member</i>
1997, June 20	Satellite Symposium on Management of Lipid Disorders in Diabetes, 57th Annual Meeting, American Diabetes Association, Boston, Massachusetts. <i>Moderator</i>
1997, June 21-24	57 <sup>th</sup> Annual Meeting, American Diabetes Association, Boston, Massachusetts, <i>Program Committee</i>
1997, June 21-24 Macrovascular	Relative importance of triglyceride-rich lipoproteins and LDL on Disease, Council on Complications Discussion Session, 57th Annual Meeting, American Diabetes Association, Boston, Massachusetts, <i>Moderator</i>
1997, July 25-27	Satellite Symposium on Atherosclerotic Vascular Disease in Diabetes, XVI International Diabetes Federation Congress, Helsinki, Finland, <i>Program Committee Member</i>
1997, July 20-24	Hyperglycemia and Macrovascular Disease Symposium, 16 <sup>th</sup> International Diabetes Federation Congress, Helsinki, Finland, <i>Chair</i>

- 1998, June 13-16 58<sup>th</sup> Annual Meeting, American Diabetes Association, Chicago, Illinois, *Program Committee Member*
- 1998, June 13-16 Targets and goals to reduce cardiovascular risk in diabetes, Council on Complications Discussion Session, 58<sup>th</sup> Annual Meeting, American Diabetes Association, Chicago, Illinois, *Moderator*
- 1998, June 13-16 Hyperglycemia and Macrovascular Disease Symposium, 58<sup>th</sup> Annual Meeting, American Diabetes Association, Chicago, Illinois, *Chair*
- 1999, June 19-22 Aggressive Lipid Management in the Diabetic Patient, *Meet the Professor Sessions*, 59<sup>th</sup> Scientific Sessions, American Diabetes Association, San Diego, California
- 1999, August 6-8 Southeast Lipid Association Second Annual Scientific Meeting, Homestead, Hot Springs, Virginia *Program Chair*
- 1999, August 18 Diagnosis and Management of Lipid Disorders in Diabetes, Charleston, SC, *Program Committee Member*.
- 2000, June 9-13 Use of Combination Therapy to Achieve Appropriate Lipid and Blood Pressure Goals in the Diabetic Patient, *Meet-the-Professor sessions* (shared with George Bakris, MD), 59<sup>th</sup> Scientific Sessions, American Diabetes Association, San Antonio, Texas
- 2000, Nov 3-5 17<sup>th</sup> IDF Satellite Symposium on “Lipoproteins, Vascular Biology and Macrovascular Disease in Diabetes”, Cancun, Mexico, November 3-4, 2000, *Program Chair*
- 2001, Jan 18-20 Prevention VI: Diabetes and Cardiovascular Disease, Amer Heart Assoc, Orlando
- 2003, Aug 24-29 Poster session on Oxidative stress in vascular disease, 18<sup>th</sup> IDF congress, Paris France, *Moderator*
- 2006, Sept 22-24 15<sup>th</sup> SouthEast Lipid Research Conference, Callaway Gardens, Georgia, *Program Chair*

## INVITED PRESENTATIONS

### INTERNATIONAL

1. Abnormal LDL Metabolism in Diabetes Mellitus, International Workshop on Macrovascular Disease in Diabetes Mellitus: Pathogenesis and Prevention, October 18-20, 1984, Garmisch, Germany.
2. Macrovascular and Cardiovascular Complications of Diabetes, International Symposium on Current Challenges and Directions in Diabetes Research, Juvenile Diabetes Foundation International, November 1-16, 1985, Monte Carlo, Monaco.
3. Metabolism of LDL and HDL in Cultured Cells, International Symposium on Atherosclerosis in Diabetes Mellitus, June 1, 1986, Osaka, Japan.
4. Métabolisme Dès Lipoproteines Au Cours Du Diabète Sucré, 28th Journées de Diabétologie de L'Hôtel Dieu, May 11-13, 1987, Paris, France.
5. Hypercholesterolemia-Diagnostic Criteria, International Symposium of Cholesterol and Cardiovascular Disease: Consensus Conference, February 19-20, 1988, Lisbon, Portugal.

6. Pathogenesis of Arteriosclerosis- New Concepts, IV Latin Meeting on Vascular Research, November 6-9,1988, Lisbon, Portugal.
7. Virus and Arteriosclerosis, 4th Congress of EuroMedicine, November 8-12, 1988, Montpellier, France.
8. Hyperlipoproteinemias and Arteriosclerosis, XI Portuguese Congress of Cardiology, April 26-29, 1989, Funchal, Madeira.
9. Immune Mechanisms in the Pathogenesis of Atherosclerosis, 5th International Colloquium, Foundation de Recherche Sur l'Atherosclerose, March 14-16, 1990, Brussels, Belgium.
10. Immune Mechanisms of Atherosclerosis in Diabetes Mellitus, Satellite Symposium on Macrovascular Complications. XIV International Diabetes Federation Congress, June 20-22, 1991. Charleston, South Carolina
11. The Role of Immune Mechanisms in the Pathogenesis of Atherosclerosis in Diabetes Mellitus, XIV International Diabetes Federation Congress, June 23-28, 1991, Washington, DC.
12. Atherosclerosis and Auto-immunity in Diabetes, 1st International Symposium on Diabetes and Atherosclerosis, September 8-10, 1991, Dublin, Ireland.
13. Immune Mediated Mechanisms of Atherosclerosis in Diabetes Mellitus, 9th International Symposium on Atherosclerosis, October 6-11, 1991, Chicago, Illinois.
14. Atherosclerosis and Immune Mechanisms, 26th Annual Scientific Meeting of the European Society for Clinical Investigation, April 1-4, 1992, Vienna, Austria.
15. Interactions Between Lipopolysaccharides and Serum Lipoproteins and Their Possible Role in CHD, X Paavo Nurmi Symposium on Role of Infection and Inflammation in Vascular Disease, August 27-29, 1992, Helsinki, Finland.
16. Immunology of Modified Lipoproteins, 2nd International Symposium on Diabetes and Atherosclerosis, EASD Lipid Study Group, September 5-8, 1992, Karlovy Vary and Prague, Czechoslovakia.
17. Interrelated Metabolism Imbalances Linked to Hyperglycemia-induced Vascular Dysfunction, 4th International Symposium on Treatment of Diabetes Mellitus, October 26-27, 1993, Nagoya, Japan.
18. Dislipidemia and Atherosclerosis in Diabetes Mellitus: Cellular Mechanisms and Clinical Implications, I Portuguese Congress of Diabetes, February 25-26, 1994, Porto, Portugal.
19. Immune-Mediated Mechanisms of Atherogenesis in Diabetes, 15th International Diabetes Federation Meeting, November 6-11, 1994, Kobe, Japan.
20. Cytokines, Modified Lipoproteins and Arteriosclerosis in Diabetes Mellitus, Diabetes and Macrovascular Complications Symposium, November 12-13, 1994, Osaka, Japan.
21. Current Approaches to the Diagnosis and Treatment of Lipid Disorders in Diabetes Mellitus, November 14, 1994, Fukuoka, Japan.
22. Cytokines, Modified Lipoproteins and Atherosclerosis in NIDDM, XI Paavo Nurmi Symposium on Diabetes and Atherosclerosis, September 15-20, 1995, Helsinki, Finland.
23. Modified Lipoproteins and Atherosclerosis in Diabetes, Lipoprotein Study Group Workshop, European Association for the Study of Diabetes (EASD), March 20-22, 1997, Sorrento, Italy.

24. Autoimmunity of Atherosclerosis, Center of Immunology, Universidad de los Andes, April 25, 1997, Merida, Venezuela.
25. Is Atherosclerosis an Immunological Disease?, Satellite symposium on Atherosclerotic Vascular Disease in Diabetes, 16th IDF Congress, July 25-27, 1997, Lappeenranta, Finland.
26. Modified Lipoproteins and Receptor Interactions, British Hyperlipidemia Association Workshop, March 11, 1998, London, England.
27. Immunological Aspects of Atherosclerosis and Modified Lipoproteins and Endothelial Dysfunction, VI Meeting on Lipid Metabolism and Related Pathology, November 22-25, 1998, Costa da Caparica, Portugal.
28. Update on Lipid Therapy, XIV Venezuelan Congress of Medical Sciences, March 27-29, 2000, Merida, Venezuela.
29. Combination Therapy to Achieve Adequate Lipid and Blood Pressure Goals on Diabetes Mellitus Patients, IV Paulista Congreso, Endocrinology and Metabology, May 25-26, 2001, São Paulo, Brazil.
30. Endothelial Dysfunction in Diabetes, IV Paulista Congreso, Endocrinology and Metabology, May 25-26, 2001, São Paulo, Brazil.
31. Antibodies Against Modified LDL and ox-LDL Immune Complexes as Predictors of Diabetic Complications, IV Paulista Congreso, Endocrinology and Metabology, May 25-26, 2001, São Paulo, Brazil
32. Hyperglycemia and insulin resistance in atherogenesis, International Congress of Diabetes, October 17-19, 2002, Buenos Aires, Argentina
33. Management of Cardiovascular Risk in Diabetes. What's new? Portuguese Congress of cardiology, April 28, 2003, Funchal, Madeira
34. Qualitative Modifications of Lipoproteins in Type 2 Diabetes, Symposium on Insulin Resistance and Type 2 diabetes, International Diabetes Federation Meeting, August 24-29, 2003, Paris, France
35. Development of capture assays for modified human LDL, 8<sup>th</sup> International Symposium on the Maillard reaction, August 28-September 1<sup>st</sup>, 2004, Charleston, SC.
36. Treatment of Diabetic Dyslipidemias. 75<sup>th</sup> European Atherosclerosis Society meeting, April 23-26, 2005. Prague, Czech Republic

## **NATIONAL AND REGIONAL**

### ***Invited Research Presentations***

1. HDL and CHD: The Lipid Hypothesis, Duke University School of Medicine and University of North Carolina School of Medicine, June 4-5, 1981, Durham and Chapel Hill, North Carolina
2. Immunochemical Determination of Human Apolipoproteins by Laser Nephelometry, Workshop on Apolipoprotein Methods, NHLBI, NIH, September 21-22, 1982, Chevy Chase, Maryland.
3. Pathophysiology of Lipoprotein Disorders, Cholesterol Education Workshop of the SC

- Affiliate of the American Heart Association, March 19, 1988, Columbia, South Carolina.
4. Lipid Disorders as CHD Risk Factors, Workshop on Cardiovascular Risk Factors, SC Medical Association Annual Meeting, April 29-30, 1988, Charleston, South Carolina.
  5. Interaction of Lipoproteins with Human Macrophages and Endothelial Cells in Diabetes Mellitus, 23rd International Research Symposium, American Diabetes Association, March 6-8, 1989, Hilton Head, South Carolina.
  6. The Role of Insulin in Abnormalities of Lipoprotein Metabolism in NIDDM Patients, Consensus Conference on the Role of Cardiovascular Risk Factors in the Prevention and Treatment of Macrovascular Disease in Diabetes, American Diabetes Association, May 10-12, 1989, Denver, Colorado
  7. Lipoproteins and Immune Response in the Vascular Wall and their Contribution to Atherosclerosis in Diabetes, International Symposium on Diabetes, Vascular Risks and Gliclazide, June 28, 1991, Washington, DC
  8. Pathogenesis of Coronary and Peripheral Vascular Disease in Diabetes Mellitus, 7th Annual Regional Scientific Conference on Diabetes Mellitus, May 21-24, 1992, Ponte Vedra Beach, Florida.
  9. Autoimmune Mechanisms of Atherosclerosis and Future Prospects for Intervention, 9th Annual National Clinical Care Diabetes Conference: Update on Treatment of Vascular Disease in Diabetes, September 18-20, 1992, Norfolk, Virginia.
  10. Role of Modified Lipoproteins in the Development of Arterial Disease in Diabetes, 53rd Annual Meeting, American Diabetes Association, June 12-15, 1993, Las Vegas, Nevada.
  11. Autoimmunity, Macrovascular Disease and Diabetes, Research Seminar, East Carolina University, January 21, 1994, Greenville, North Carolina.
  12. Heart Disease in Women, HCA Center for Research Education, May 6-7, 1994, Nashville, Tennessee.
  13. Coronary Heart Disease Risk Factors and Mechanisms of Atherogenesis in Diabetes Mellitus: Clinical Implications, Medical Grand Rounds, Medical College of Georgia, December 16, 1994, Augusta, Georgia.
  14. An Integrated View of the Role of Modified Lipoproteins in the Development of Atherosclerosis in Diabetes, Endocrinology Grand Rounds, Medical College of Georgia, December 16, 1994, Augusta, Georgia
  15. Modified Lipoproteins, Auto-immunity and Atherosclerosis, University of Pennsylvania, April 25, 1995, Pittsburgh, Pennsylvania.
  16. Cytokines and Adhesion Molecules, Research Seminar, Clinical Pharmacology Center, April 26, 1995, University of Pennsylvania, Pittsburgh, Pennsylvania
  17. Regulation of LDL-Receptor Expression in Human Macrophages Activated by LDL-containing Immune Complexes, Research Seminar, Picower Institute for Medical Research, March 26, 1996, Manhasset, New York
  18. Pathogenesis of Atherosclerosis in Diabetes, National Diabetes Consultant Meeting, Rancho Bernardo Inn, June 6, 1997, San Diego, California.
  19. Macrovascular Disease in Diabetes. New Concepts and Therapies, Grand Rounds,

- Endocrinology and Metabolism Division, University of Minnesota, October 9, 1997, Minneapolis, Minnesota.
20. Regulation of LDL and Scavenger Receptor Expression in Human Macrophages, Research Conference, University of Minnesota, October 9, 1997, Minneapolis, Minnesota.
  21. Inflammation and Atherogenesis, Grand Rounds in Medicine, Clemson University, November 14, 1997, Clemson, South Carolina.
  22. Macrophage Activation and Macrovascular Disease, Biomedical Seminar Series, Clemson University, November, 14, 1997, Clemson, South Carolina.
  23. Are Circulating Antibodies to LDL Relevant to the *in vivo* Risk of Developing Coronary Artery Disease?, Council on Complications Current Issues Session; American Diabetes Association 58th Scientific Sessions, June 13-16, 1998, Chicago, Illinois.
  24. Activation and Gene Expression. Its Role in Atherosclerosis and Plaque Rupture, Southeast Lipid Conference, September 10-13, 1998, Lake Lanier, Georgia
  25. Lipids, Immunocomplexes and Inflammation of the Vascular Wall, International Conference on Complications, Joslin Diabetes Center, October 23-25, 1998, Boston, Massachusetts.
  26. Macrophage activation in plaque formation and rupture, Research Seminar, Diabetes and Endocrinology Division, Columbia University, October 19, 1999, New York, NY
  27. The Role of Immune and Inflammatory Processes in the Development of Macrovascular Complications in Diabetes, University of Nebraska Medical Center, April 17-18, 2001, Omaha, Nebraska
  28. The Edwin Bierman Award Lecture: Immune and Inflammatory Processes in the Development of Macrovascular Complications in Diabetes Mellitus, American Diabetes Association, 61<sup>st</sup> Annual Meeting,, June 21-24, 2001, Philadelphia, Pennsylvania
  29. Metabolic Syndrome, Southeast Lipid Association Annual Scientific Meeting. August 3-5, 2001, Charleston, South Carolina.
  30. Dyslipidemia and Macrovascular Disease in Diabetes. What's new? Joslin Diabetes Center, March 11, 2002, Boston, MA.
  31. What's new in the Pathophysiology of Atherosclerosis? Changes and Challenges in Cardiovascular Protection. Boston, MA, May 11, 2002
  32. Physician and Scientist: Oil and Vinegar or Salad Dressing?, Southeast Lipid Association Annual Scientific Meeting, August 2-4, 2002, Williamsburg, Virginia.
  33. Cardiovascular Disease in Diabetes, Council Discussion on Are diabetic complications preventable? , 63<sup>rd</sup> annual meeting of the American Diabetes Association , June 13-17, 2003 New Orleans, Louisiana
  34. Insulin Resistance, Workshop on Diabetic Complications: Progress through animal models, sponsored by National Institute of Diabetes & Digestive & Kidney Diseases, National Heart, Lung and Blood Institute, National Institute of Neurological Disease and Stroke, National Eye Institute and Juvenile Diabetes Research Foundation, October 20-21, 2003, Washington DC.
  35. Cardiovascular Risk and lipid management. Gender differences. 13<sup>th</sup> SouthEast Lipid Research Conference, Callaway Gardens, September 23-26, 2004
  36. Inflammation and Cardiovascular Disease in Diabetes. Cardiology Fellowship Lecture

- series, University of Minnesota, Jan 5, 2005
37. Lipoprotein Metabolism, Inflammation and Obesity, Obesity day at the West Carolina University, NC, October 30, 2007
  38. Development and Progression of Diabetic Complications: Is the Immune system the main culprit? Kresge Eye institute, Wayne State University, Detroit, MI, April 9, 2008

### *Clinical Presentations*

1. Cholesterol, Hypertension and Arteriosclerosis, 12th Annual Southeastern Conference on High Blood Pressure Control, October 22-24, 1986, Charleston, South Carolina.
2. Lipids and Lipoproteins as Risk Factors in NIDDM - When to Intervene, Council on Diabetes in Youth, American Diabetes Association 47th Annual Meeting, June 6-9, 1987, Indianapolis, Indiana.
3. Cholesterol and CHD," Community Health Section Conference, September 27-30, 1987, Savannah, Georgia.
4. Hyperlipidemias: Diagnosis and Treatment, 39th Annual Assembly of the South Carolina Academy of Family Physicians, December 3-5, 1987, Hilton Head, South Carolina.
5. Hyperlipidemias and Macrovascular disease in Diabetes: New Directions in Diabetes Management, South Carolina and Georgia Affiliates, American Diabetes Association, May 19-22, 1988, Hilton Head, South Carolina
6. Women, Hormones and Cardiovascular Disease, Symposium on Practical Aspects of Hypertensive and Cholesterol Diseases, August 19-21, 1993, Nashville, Tennessee
7. Prevention of Cardiovascular Disease and Diabetes, Medical Grand Rounds, Bowman Gray School of Medicine, September 7, 1993, Winston-Salem, North Carolina
8. Update in the Treatment of Hypercholesterolemia, Myrtle Beach Medical Society, April 1994, Myrtle Beach, South Carolina
9. Update in the Diagnosis and Management of Hypercholesterolemia, Marion Memorial Hospital, May 23, 1994, Myrtle Beach, South Carolina.
10. Recognition and Treatment of the High Risk Patient for Cardiovascular Disease, Managing Health in the Aging, Southern Clinical Neurological Society, September 26, 1996, Charleston, SC.
11. New Advances in Lipid Management, Moody Air Force Base, April 4, 1997, Valdosta, Georgia.
12. Lipid Management in Clinical Practice: Improving Patient Outcomes, April 30, 1997, Greenville, South Carolina, sponsored by the Professional Postgraduate Services.
13. Advances in Lipid Therapy, Medical Education Programs, The Woodlands, September 6, 1997, Summerville, South Carolina.
14. Lipid Management in Clinical Practice: Improving Patient Outcomes, Session Leader, October 8, 1997, LMCP Regional Dinner Conference, Baltimore, Maryland.
15. Lipid Management in Diabetes, EDIC Study Coordinators Meeting, February 6, 1998, Charleston, South Carolina.

16. Diagnosis, Prevention and Treatment of Hypertriglyceridemia, Insulin Resistance Syndrome and Diabetic Dyslipidemia, LMCP CME District Symposium, July 25, 1998, Destin, Florida.
17. Management of Lipid Disorders, 4<sup>th</sup> Annual Diabetes Symposium for Primary Health Care Professionals, October 1, 1998, Charleston Hilton Hotel, Charleston, South Carolina.
18. Diet and CAD Risk. The Role of Vitamins, Annual South Carolina Dietetic Association, October 15-16, 1998, Myrtle Beach, South Carolina.
19. Rationale for Cholesterol Lowering, National Lipid Education Council, November 14, 1998, Louisville, Kentucky.
20. Hyperlipidemia in the VA Setting: Focusing the Attack. A Case-Based Approach to Management, National Lipid Education Council, November 16, 1998, Chapel Hill, North Carolina
21. Hyperlipidemia in the VA Setting: Focusing the Attack, CME Clinical Conference, Professional Postgraduate Services, December 9, 1998, Richmond, Virginia.
22. Lipid Management in Clinical Practice: Improving Patient Outcomes, National Lipid Education Council, January 12, 1999, Charlotte, North Carolina.
23. Lowering the Risk of CHD: Clinical Benefits of Aggressive LDL-C Reduction, Dannemiller Memorial Foundation, October 6, 1999, West Palm Beach.
24. Lowering the Risk of CHD: Clinical Benefits of Aggressive LDL-C Reduction, Dannemiller Memorial Foundation, October 12, 1999, Charleston, SC.
25. Lowering the Risk of CHD: Clinical Benefits of Aggressive LDL-C Reduction, Dannemiller Memorial Foundation, October 26, 1999, Roca-Baton, Florida.
26. Lowering the Risk of CHD: Clinical Benefits of Aggressive LDL-C Reduction, Dannemiller Memorial Foundation, December 2, 1999, Tampa, Florida.
27. Lipoproteins and cardiovascular risk in Diabetes, June 15, 2000, Charleston Place, Charleston, South Carolina
28. Strategies in the Management of Cardiovascular Risk in Diabetes, New York, New York, June 25, 2000
39. Updating Lipid Management for Primary Care Physicians, July 13, 2000, Naval Weapon Station, Charleston, South Carolina.
40. Customizing Lipid Management According to the Patient's Profile, August 22, 2000, Beaufort, South Carolina.
41. Update in the Management of Lipid Disorders with Special Emphasis on Diabetic Patients, September 15, 2000, Myrtle Beach, South Carolina.
27. Reducing Cardiovascular Risks-Lipid Management in Diabetes, Southern Medical Association Meeting, March 25-28, 2001, Destin, Florida
43. Dyslipidemia and the Diabetic Patient, April 2, 2001, Medical Views, Southern Vistas, Charleston, South Carolina.
44. NECP-ATP-III guidelines and its clinical applications, June 15, 2001, Myrtle Beach, South Carolina

45. The ATP-III Guidelines, Regional Advisory Meeting, 9/21-22,2001, Atlanta , Georgia
46. The need for intensive cholesterol lowering: a review of lipoproteins, landmark clinical trials and patient issues, Changes and Challenges in Cardiovascular Protection. May 11, 2002, Boston, MA
47. The Evolving Lipid Management Paradigm, University of Tennessee Cardiology Rounds, June 19,2002, Knoxville, Tennessee
48. The need for intensive cholesterol lowering: a review of lipoproteins, landmark clinical trials and patient issues, Changes and Challenges in Cardiovascular Protection, June 29,2002 St Louis, Missouri
49. The ATP-III evidence-based guidelines: what are the changes and the rationale. Changes and Challenges in Cardiovascular Protection, May 11, 2002, Boston, MA
50. Identifying and treating subgroups of high risk patients for CHD and CVD. Changes and Challenges in Cardiovascular Protection, June 29, 2002, St Louis, Missouri
51. Management of Lipid Disorders. The new ATP-III guidelines, Focus on the female patient, Southern Medical Association, July 9, 2002, Kiawah Island, SC.
52. The Evolving Lipid Management Paradigm: Clinical Implications for Practice. The Evolving Lipid Management Paradigm: Centers of Excellence. Emory Conference Center, September 14, 2002, Atlanta, GA.
53. The Evolving Lipid Management Paradigm, East Jefferson General Hospital Cardiology Rounds, November 19,2002, Metairie, Louisiana
54. LDL-Apheresis-Beyond Drug Therapy-The principles and Therapeutic Applications, Workshop, SouthEast Lipid Association, 6<sup>th</sup> Annual Meeting, August 22-24, 2003, Roca Baton, Florida.
55. Heart Disease in Women. Gender differences in Risk and Management. In “Achieving Success in Women’s Healthcare. Early Detection and Treatment.” May 12-13, 2005. Atlanta, GA
56. The Endocannabinoid system: a new target for the reduction of cardiovascular risk factors. The Metabolic Syndrome. Sponsored by the Endocrine Society, May 31 (Houston, Texas) and June 1 (San Antonio, Texas), 2006
57. Management of lipid cases: Diabetes Fall Symposium for Primary Health Care professionals, September 10-12, 2008, North Charleston, SC

## PEER-REVIEWED PUBLICATIONS

### MANUSCRIPTS

#### A. *PUBLISHED*

1. **Lopes MF**. “Chronic Broncho-Pulmonary Diseases and Mucoviscidosis.” *Medicina Universal*, 11:261-281, 1968 (Port.).
2. **Lopes MF** and Levy ML. “About a Case of Cystic Fibrosis.” *Revista Portuguesa de Pediatria*, 31:238-245, 1968 (Port.).
3. Virella G and **Lopes MF**. “The Immunoglobulins. IV. Monoclonal Gammopathies.” *Medicina Universal*, 12:23-28, 1969 (Port.).

4. **Lopes MF**. "Pigeon Breeder's Disease." *O Medico*, 55:795-799, 1970 (Port.)
5. Virella G and **Lopes-Virella MF**. "Effects of Therapeutically Useful Thiols (DL-penicillamine and Alpha-mercaptopyrionylglycine) on Immunoglobulins." *Clin Exp Immunol*, 7:85-107, 1970 (Port.).
6. Virella G and **Lopes MF**. "Correlations Between Laboratorial Studies, Diagnosis, Therapy and Prognosis of Monoclonal Gammopathies." *Revista Portuguesa de Terapêutica Médica*, 4:190-200, 1970 (Port.).
7. **Lopes-Virella MF**, Palma Carlos ML and Ducla Soares A. "Clinical Trial of Alpha-Mercaptopyrionylglycine (Tiolidon) in Rheumatoid Arthritis." *Revista Portuguesa de Terapêutica Médica*, 6:23-27, 1972 (Port.).
8. **Lopes-Virella MF**, Sequerra Amram S, Parreira F and Virella G. "Serum Lipoprotein Electrophoresis, II-Polyacrylamide Gel Electrophoresis." *O Médico*, 69:496-500, 1973 (Port.).
9. **Lopes-Virella MF**, Martins Prata M, Virella G and Ducla Soares A. "Lipoproteins in the Nephrotic Syndrome." *O Médico*, 70:153-155, 1974 (Port.).
10. **Lopes-Virella MF**, Virella G, Parreira F and Sequerra Amram S. "Comparative Analysis of Some Techniques for the Electrophoretic Separation of Serum Lipoproteins." *Revista Clinica Española*, 133:195-204, 1974 (Span.).
11. Virella G, Gervasio da Silva JJ, **Lopes-Virella MF** and Parreira F. "Intracellular Light Chains in Peripheral Lymphocytes of a Patient with Chronic Lymphatic Leukemia." *Sangre*, 20:456-466, 1975 (Span.).
12. **Lopes-Virella MF**, Sarji K, Virella G and Colwell JA. "Platelet Lipoproteins - A Comparative Study with Serum Lipoproteins." *Biochim Biophys Acta*, 439(2):339-348, 1976.
13. **Lopes-Virella MF** and Colwell JA. "Serum High Density Lipoprotein in Diabetic Patients." *Lancet*, 1:1291-1292, 1976.
14. **Lopes-Virella MF**, Stone P, Ellis S and Colwell JA. "Cholesterol Determination in High Density Lipoproteins Separated by Three Different Methods." *Clin Chem*, 23:882-884, 1977.
15. Virella G, Monteiro JN, **Lopes-Virella MF**, Ducla Soares A and Fudenberg HH. "Asynchronous Development of Two Monoclonal Proteins (IgM k and g-1 Chains) in a Patient with Abdominal Lymphoma." *Cancer*, 39:2247-2253, 1977.
16. **Lopes-Virella MF**, Stone P and Colwell JA. "Serum High Density Lipoprotein in Diabetes." *Diabetologia*, 13:285-291, 1977.
17. Virella G and **Lopes-Virella MF**. "New Approaches to the Study of Proteinuria." *Clin Chem*, 23:1793-1794, 1977.
18. **Lopes-Virella MF** and Colwell JA. "Tight Metabolic Control may Normalize HDL and Check Macrovascular Disease in Diabetes." *Metab Therapy*, 6:1-3, 1977.
19. Virella G, **Lopes-Virella MF**, Levine J, Ogawa M and Gonzalez J. "Idiopathic Bence-Jones Proteinuria." *Acta Haematologica*, 60:269-279, 1978.
20. **Lopes-Virella MF**, Virella G, Rosebrock G, Sagel J, Gonzalez J and Colwell JA. "Early Diagnosis of Renal Malfunction in Diabetics: Abnormal Proteinuria Revealed by Sodium Dodecyl Sulfate-polyacrylamide Gel Electrophoresis." *Diabetologia*, 16:165-171, 1979.
21. Virella G, Munoz J, **Lopes-Virella MF**, Ward B and Gadsden R. "Rapid Immunochemical

- Determination of Free Hemoglobin in Plasma and Urine with a Laser Nephelometer.” *Clin Chem*, 25:497-499, 1979.
22. **Lopes-Virella MF**, Virella G, DeBeukelaer M, Owens CJ and Colwell JA. “Urinary High Density Lipoprotein in Minimal Change Glomerular Disease and Chronic Glomerulopathies.” *Clin Chim Acta*, 94:73-81, 1979.
  23. Colwell JA, Halushka PV, Sarji KE, **Lopes-Virella MF** and Sagel J. “Vascular Disease in Diabetes. Pathophysiological Mechanisms and Therapy.” *Arch Intern Med*, 139:225-230, 1979.
  24. Sagel J, **Lopes-Virella MF**, Colwell JA and Levine JH. “Altered High Density Lipoprotein Cholesterol (HDL-CHOL) in Hypothalamic-Pituitary Disorders.” *J Clin Endocrinol Metab*, 49:753-756, 1979.
  25. Gordon L, Mayfield RK, Levine JH, **Lopes-Virella MF**, Sagel J and Buse MG. “Failure to Visualize Adrenal Gland in a Patient with Bilateral Adrenal Hyperplasia.” *J Nucl Med*, 21:49-51, 1980.
  26. **Lopes-Virella MF**, Adams K, O'Dell R and Virella G. “Cold Agglutinin Disease: A Case Complicated with an Episode of Acute Renal Failure.” *Clin Immunol Newsletter*, 1(9):1-4, 1980.
  27. **Lopes-Virella MF**, Virella G, Evans G, Malenkos SB and Colwell JA. “Immunonephelometric Assay of Human Apolipoprotein AI.” *Clin Chem*, 26:1205-1208, 1980.
  28. Virella G, Lopes-Virella M, and Estes G. “Nephelometric Assays in Clinical Immunology.” *Microbiology by American Society of Microbiology*, 1981:326-331.
  29. Colwell JA, **Lopes-Virella MF** and Halushka PV. “Pathogenesis of Atherosclerosis in Diabetes Mellitus.” *Diabetes Care*, 4:121-133, 1981.
  30. **Lopes-Virella MF**, Wohltmann J, Loadholt B and Buse MG. “Plasma Lipid and Lipoprotein in Young Type I Diabetic Patients. Relationship with Control.” *Diabetologia*, 21:216-223, 1981.
  31. Virella G, Wohltmann H, Sagel J, **Lopes-Virella MF**, Kilpatrick M, Philips C and Colwell JA. “Soluble Immunocomplexes in Patients with Diabetes Mellitus, Detection and Pathological Significance.” *Diabetologia*, 21:184-191, 1981.
  32. **Lopes-Virella MF**, Sherer G, Lees AM, Wohltmann H, Mayfield R, Sagel J, Leroy C and Colwell JA. “Surface Binding, Internalization and Degradation by Cultured Human Fibroblasts of Low Density Lipoproteins Isolated from Type I (Insulin-dependent) Diabetic Patients: Changes with Metabolic Control.” *Diabetologia*, 22:430-436, 1982.
  33. **Lopes-Virella MF**, Wohltmann H, Mayfield RK, Loadholt CB and Colwell JA. “Effect of Metabolic Control on Lipid, Lipoprotein and Apolipoprotein Levels in 55 Insulin-dependent Diabetic Patients: A Longitudinal Study.” *Diabetes*, 32:20-25, 1983.
  34. Virella G, **Lopes-Virella MF**, Shuller C, Sherwood T, Espinoza A, Winocour P and Colwell JA. “Release of Platelet Activating Factor by Polymorphonuclear Leukocytes Stimulated by Immune Complexes Bound to Sepharose Particles in Human Erythrocytes.” *Immunology*, 50:43-51, 1983.
  35. Colwell JA, Winocour PD, **Lopes-Virella MF** and Halushka PV. “New Concepts About the Pathogenesis of Atherosclerosis in Diabetes Mellitus.” *Am J Med*, 75:67-80, 1983.
  36. Winocour PD, **Lopes-Virella MF**, Laimins M and Colwell JA. “Time-Course of Changes *In Vitro* Platelet Function and Plasma von Willebrand Factor Activity (VIII-R,WF) and

- Factor VIII Related Antigen (VIII-R, Ag) in the Diabetic Rat.” *J Lab Clin Med*, 102:795-804, 1983.
37. Winocour PD, **Lopes-Virella MF**, Laimins M and Colwell JA. “The Effect of Insulin Treatment in Streptozotocin-induced Diabetic Rats on *In Vitro* Platelet Function and Plasma von Willebrand Factor Activity (VIII:WF) and Factor VIII Related Antigen (VIII:Ag).” *Journal of Laboratory and Clinical Medicine*, 106:319-325, 1985.
  38. **Lopes-Virella MF**. “Abnormal Metabolism of LDL in Diabetes Mellitus.” *Horm Metab Res*, 15(S):83-87, 1985.
  39. Colwell JA, **Lopes-Virella MF**, Mayfield R and Sens D (eds). “Workshop on Insulin and Atherogenesis.” *Metabolism*, 12 (S1):1-91, 1985.
  40. **Lopes-Virella MF**. “Circulating Elements.” In “Workshop on Insulin and Atherogenesis.” *Metabolism*, 12 (S1):87-91, 1985.
  41. Mayfield RK, Halushka PV, Wohltmann HJ, **Lopes-Virella MF**, Chambers JK, Loadholt C and Colwell JA. “Influence of Glycemic Control on Platelet Function in Insulin-dependent Diabetic Patients.” *Diabetes*, 34:1127-1133, 1985.
  42. **Lopes-Virella MF**, Sherer G, Wohltmann H, Sens D and Colwell JA. “Diabetic Lipoprotein Deficient Sera. Its Effect in LDL Uptake and Degradation by Fibroblasts.” *Metabolism*, 34:1079-1085, 1985.
  43. **Lopes-Virella MF** and Virella G. “Immunological and Microbiological Factors in the Pathogenesis of Atherosclerosis.” *Clin Immunol Immunopathol*, 37:377-386, 1985.
  44. Lyons TJ, Patrick J, Baynes JW, Colwell JA and **Lopes-Virella MF**. “Degree of Glycation of LDL in a Group of Type I Diabetic Patients: Correlations with Other Parameters of Glycemic Control.” *Diabetologia*, 29:685-689, 1986.
  45. **Lopes-Virella MF** and Colwell JA. “Pharmacological Treatment of Lipid Disorders in Diabetes Mellitus.” *Diabetes/Metabolism Reviews*, 3:691-722, 1987.
  46. **Lopes-Virella MF**, Klein RL and Stevenson HC. “Low Density Lipoprotein Metabolism in Human Monocyte-derived Macrophages Stimulated with Microbial or Microbial-related Products.” *Arteriosclerosis*, 7:176-184, 1987.
  47. Virella G and **Lopes-Virella MF**. “Infections and Atherosclerosis.” *Transplantation Proceedings*, 19:26-35, 1987.
  48. Lyons TJ, Klein RL, Baynes JW and **Lopes-Virella MF**. “Stimulation of Cholesteryl Ester Synthesis in Human Monocyte-derived Macrophages by Lipoproteins from Type I Diabetic Patients: The Influence of Glycation of Low Density Lipoprotein.” *Diabetologia*, 30:916-923, 1987.
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