

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 2nd 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 1st 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 th 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 th International Diabetes Federation Congress, Helsinki, Finland, <i>Chair</i>

- 1998, June 13-16 58th 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, 58th Annual Meeting, American Diabetes Association, Chicago, Illinois, *Moderator*
- 1998, June 13-16 Hyperglycemia and Macrovascular Disease Symposium, 58th Annual Meeting, American Diabetes Association, Chicago, Illinois, *Chair*
- 1999, June 19-22 Aggressive Lipid Management in the Diabetic Patient, *Meet the Professor Sessions*, 59th 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), 59th Scientific Sessions, American Diabetes Association, San Antonio, Texas
- 2000, Nov 3-5 17th 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, 18th IDF congress, Paris France, *Moderator*
- 2006, Sept 22-24 15th 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, 8th International Symposium on the Maillard reaction, August 28-September 1st, 2004, Charleston, SC.
36. Treatment of Diabetic Dyslipidemias. 75th 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, 61st 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? , 63rd 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. 13th 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, 4th 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, 6th 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.
 49. **Lopes-Virella MF**, Klein RL, Lyons TJ, Stevenson HC and Witztum JL. “*In Vitro* Glucosylated LDL Enhances Cholesteryl Ester Synthesis and Accumulation in Human Monocyte-derived Macrophages.” *Diabetes*, 37:550-557, 1988.
 50. Griffith RL, Virella GT, Stevenson HC and **Lopes-Virella MF**. “LDL Metabolism by Macrophages Activated with LDL Immune Complexes: A Possible Mechanism of Foam Cell Formation.” *Journal Experimental Medicine*, 168: 1041-1059, 1988.
 51. Colwell JA and **Lopes-Virella MF**. “A Review of the Pathogenesis of Large Vessel Disease in Diabetes Mellitus.” *Am J Med*, 85 (S5A):113-118, 1988.
 52. Watanabe J, Wohltmann HJ, Klein RL, Colwell JA and **Lopes-Virella MF**. “Enhancement

- of Platelet Aggregation by LDL Isolated from Patients with Insulin-dependent Diabetes Mellitus." *Diabetes*, 37: 1652-1657, 1988.
53. Marken PA, Weart CW, Carson DS, Gums JG and **Lopes-Virella MF**. "Effects of Magnesium Oxide on the Lipid Profile of Healthy Volunteers." *Atherosclerosis*, 77: 37-42, 1989.
 54. Klein RL, Lyons TJ and **Lopes-Virella MF**. "Interaction of VLDL Isolated from Type I (Insulin-dependent) Diabetic Subjects with Human Monocyte-Derived Macrophages." *Metabolism*, 38:1108-14, 1989.
 55. Vaughn M, Virella G and **Lopes-Virella MF**. "Diabetes, Autoimmunity and Arteriosclerosis." *Clinical Immunology and Immunopathology*, 52:414-420, 1989.
 56. Klein RL, Lyons TJ and **Lopes-Virella MF**. "Metabolism of Very Low and Low Density Lipoproteins Isolated from Normolipidaemic Type 2 (Non-Insulin-Dependent) Diabetic Patients by Human Monocyte-derived Macrophages." *Diabetologia*, 33:299-305, 1990.
 57. Gisinger C, Virella GT and **Lopes-Virella MF**. "Erythrocyte-Bound Low Density Lipoprotein (LDL) Immune Complexes Lead to Cholesteryl Ester Accumulation in Human Monocyte Derived Macrophages." *J. Clin. Immun. and Immunopathology*, 59:37-52, 1991.
 58. **Lopes-Virella MF**, Griffith RL, Shunk KA and Virella G. "Enhanced Uptake and Impaired Intracellular Metabolism of LDL Complexed with Anti-LDL Antibodies." *Arteriosclerosis*, 11: 1356-1367, 1991.
 59. Virella G, Fourspring K, Hyman B, Haskill-Stroud R, Long L, Virella I, La Via M, Gross AJ, Oexmann MJ and **Lopes-Virella MF**. "Immunosuppressive Effects of Fish Oil in Normal Human Volunteers: Correlation with the *In Vitro* Effects of Eicosapentanoic Acid on Human Lymphocytes." *Clinical Immunology and Immunopathology*, 61:161-176, 1991.
 60. **Lopes-Virella MF** and Virella G. "Lipoproteins and Immune Response in the Vascular Wall and their Contribution to Atherosclerosis in Diabetes." *Metabolism*, 41:11-15,1992.
 61. Klein RL, Wohltmann HJ and **Lopes-Virella MF**. "Influence of Glycemic Control on the Interaction of Very Low and Low Density Lipoproteins Isolated From Type 1 (Insulin-dependent) Diabetic Patients With Human Monocyte-Derived Macrophages." *Diabetes*, 41: 1301-1307, 1992.
 62. **Lopes-Virella MF** and Virella G. "Immune Mechanisms of Atherosclerosis in Diabetes Mellitus." *Diabetes*, 41: 86-91, 1992.
 63. Gisinger C and **Lopes-Virella MF**. "Lipoprotein Immune Complexes and Diabetic Vascular Complications." *Diabetes*, 41: 92-96, 1992.
 64. Virella G, Virella I, Leman RB, Pryor MB and **Lopes-Virella MF**. "Anti-oxidized LDL Antibodies in Patients with Coronary Heart Disease and Normal Healthy Volunteers." *Int. J. Clin. Lab. Res.*, 23:95-101, 1993.
 65. **Lopes-Virella MF**, Jokl R and Colwell JA. "Rheology and Clotting Factors in Diabetes Mellitus." SM Marshall, PD Home, KGMM Alberti and L Krall eds, Elsevier Science Publishers, *Diabetes Annual 7*: 83-106, 1993.
 66. **Lopes-Virella MF**. "Interactions Between Bacterial Lipopolysaccharides and Serum Lipoproteins and their Possible Role in Coronary Heart Disease." *European Heart Journal*, 14 (K): 118-124, 1993.
 67. Klein RL and **Lopes-Virella MF**. "Metabolism by Human Endothelial Cells of Very Low Density Lipoprotein Subfractions Isolated from Type I (Insulin-dependent) Diabetic Patients." *Diabetologia*, 36: 258-264, 1993.

68. Lyons TJ, **Lopes-Virella MF** and Baynes JW. "Glycation, Oxidation and Glycooxidation in the Pathogenesis of Atherosclerosis in Diabetes." *Modern Medicine*, 61:4-6, 1993.
69. **Lopes-Virella MF**. "Peripheral Vascular Disease." Marshall, PD Home, KGMM Alberti and LP Krall eds, Elsevier Science Publishers, *Diabetes Annual* 8: 365-387, 1994.
70. Jokl R, Laimins M, Klein RL, Lyons TJ, **Lopes-Virella MF** and Colwell JA. "Platelet Plasminogen Activator Inhibitor 1 in Patients with Type II Diabetes." *Diabetes Care*, 17: 818-823, 1994.
71. **Lopes-Virella MF** and Virella G. "Atherosclerosis and Autoimmunity." *Clinical Immunology and Immunopathology*, 73:155-167, 1994.
72. Virella G, Mironova M and **Lopes-Virella MF**. "Assay of Anti-Modified LDL Antibodies." *Clinical Chemistry*, 41:324-325, 1995.
73. Virella G, Muñoz José F, Galbraith Gillian MP, Gisinger, C, Chassereau C and **Lopes-Virella MF**. "Activation of Human Monocyte-Derived Macrophages by Immune Complexes Containing Low Density Lipoprotein." *Clin. Immunology and Immunopathology*, 75:179-189, 1995.
74. Klein RL, Laimins M and **Lopes-Virella MF**. "Isolation, Characterization and Metabolism of the Glycated and Non-Glycated Subfractions of Low Density Lipoproteins Isolated From Type I Diabetic Patients and Non-Diabetic Subjects." *Diabetes*, 44:1093-1098, 1995.
75. Jokl R, Klein RL, **Lopes-Virella MF** and Colwell JA. "Release of Platelet Plasminogen Activator Inhibitor 1 in Whole Blood is Increased in Patients with Type II Diabetes." *Diabetes Care*, 18:1150-1155, 1995.
76. **Lopes-Virella MF** and Virella G. "Cytokines, Modified Lipoproteins and Arteriosclerosis in Diabetes Mellitus." *Diabetes*, 45: 40-44, 1996.
77. **Lopes-Virella MF**, Klein RL and Virella G. "Modification of Lipoproteins in Diabetes." *Diabetes/Metabolism Reviews*, 12:69-90, 1996.
78. Mironova M, **Lopes-Virella MF** and Virella G. "Isolation and Characterization of Human Anti-oxidized LDL Auto-antibodies." *Arteriosclerosis, Thrombosis and Vascular Biology*, 16:222-229, 1996.
79. Jenkins AJ, Klein RL, Chassereau CH, Hermayer KL and **Lopes-Virella MF**. "LDL from Patients with Well Controlled IDDM is not More Susceptible to *In Vitro* Oxidation." *Diabetes*, 45:762-767, 1996.
80. **Lopes-Virella MF** and Virella G. "Modified Lipoproteins, Cytokines and Macrovascular Disease in Non-insulin Dependent Diabetes Mellitus." *Annals of Medicine*, 28:347-354, 1996.
81. Huang Y, Ghosh MJ and **Lopes-Virella MF**. "Transcriptional and Post-transcriptional Regulation of LDL Receptor Gene Expression in PMA-treated THP-1 Cells by LDL-Containing Immune Complexes." *Journal of Lipid Research*, 38:110-120, 1997.
82. **Lopes-Virella MF**, Mironova M and Virella G. "LDL-IC and Atherosclerosis in Diabetes Mellitus." *Diabetes Reviews*, 5:410-424 1997.
83. Mironova M, Virella G, Virella-Lowell I and **Lopes-Virella MF**. "Anti-modified LDL Antibodies and LDL-Containing Immune Complexes in Well-controlled IDDM Patients and Healthy Controls." *Clinical Immunology and Immunopathology*, 85:73-82 1997.
84. **Lopes-Virella MF**, BinZafar N, Rackley S, Takei A, LaVia M and Virella G. "The Uptake of LDL-IC by Human Macrophages: Predominant Involvement of the Fc γ R I."

- Atherosclerosis*, 135:161-170, 1997.
85. **Lopes-Virella MF** and Virella G. "The Immunology of Atherosclerosis." SM Marshall, PD Home and RA Rizza eds, Elsevier Science Publishers, *Diabetes Annual* 11: 81-95, 1998.
 86. Koskinen S, Enockson C, **Lopes-Virella MF** and Virella G. "Preparation of a Human Standard for Determination of the Levels of Antibodies to Oxidatively Modified Low-Density Lipoproteins." *Clinical and Diagnostic Laboratory Immunology*, 5:817-822, 1998.
 87. Willi SM, O'Rear D, Garvey WT, Colwell JA, Buse M, Jaffa A, **Lopes-Virella MF**, Wood D, Mayfield R, Wallace P, Hernmayer KL, Jenkins AJ, Lyons T and Mayer Davis E. "Diabetes Research in South Carolina." *Journal of South Carolina Medical Association* 94:502-508, 1998.
 88. Huang Y, Ayad J, Koskinen S, Takei A and **Lopes-Virella MF**. "Oxidized LDL-Containing Immune Complexes Induce Fc Gamma Receptor I-Mediated Mitogen-Activated Protein Kinase Activation in THP-1 Macrophages." *Arteriosclerosis, Thrombosis and Vascular Biology*, 19:1600-1607, 1999.
 89. Islam S, Gutin B, Treiber F, Hobbs G, Kamboh MI and **Lopes-Virella MF**. "Association of Apo(a) Phenotypes and Oxidized LDL-immune Complex in Children." *Archives of Pediatrics & Adolescent Medicine*, 153:57-62, 1999.
 90. **Lopes-Virella MF**, Virella G, Orchard TJ, Koskinen S, Evans RW, Becker D and Forrest K Y-Z. "Anti-oxidized LDL Antibodies and LDL-containing Immune Complexes as Risk Factors for Coronary Heart Disease in Diabetes Mellitus." *Clinical Immunology* 90:165-172, 1999.
 91. Orchard TJ, Forrest K Y-Z, Becker DJ, Virella G and **Lopes-Virella MF**. "Antibodies to Oxidized LDL Predict CAD in Type I Diabetes: A Nested Case Control Study from the Pittsburgh Epidemiology of Diabetes Complications Study." *Diabetes*, 48:1454-58,1999.
 92. Huang Y, Mironova M and **Lopes-Virella MF**: "Oxidized LDL Stimulates Matrix Metalloproteinase 1 Expression in Human Vascular Endothelial Cells." *Arteriosclerosis, Thrombosis and Vascular Biology*, 19: 2640-2647,1999.
 93. **Lopes-Virella, MF**, Koskinen S, Mironova M, Horne D, Klein R, Chassereau C, Enockson C and Virella G: The preparation of copper-oxidized LDL for the measurement of oxidized LDL antibodies by EIA, *Atherosclerosis*, 152:107-115, 2000.
 94. Fu Y, Luo N and **Lopes-Virella, MF**. "Oxidized LDL Induces the Expression of Adipocyte Binding Protein (ALBP/apz) mRNA and Protein in Human THP-1 Macrophages, *Journal of Lipid Research*, 41(12):2017-2023, 2000.
 95. Mironova M, Klein R, Chassereau C, Virella G and **Lopes-Virella MF**. "Anti-Modified LDL Antibodies and LDL-Containing Immune Complexes, and Susceptibility of LDL to In Vitro Oxidation in Patients with Type 2 Diabetes." *Diabetes*, 49:1033-1041, 2000.
 96. Virella G, Koskinen S, Krings G, Onorato J.M., Thorpe S.R. and **Lopes-Virella MF**: Immunochemical Characterization of Purified Human Oxidized Low-Density Lipoprotein Antibodies. *Clinical Immunology*, 95:134-144, 2000.
 97. Huang Y, Fleming AY, Wu S, Virella G and **Lopes-Virella MF**. "Fc- γ Cross-Linking by Immune Complexes Induces Matrix Metalloproteinase-1 in U937 Cells via Mitogen-Activated Protein Kinase.", *Arteriosclerosis, Thrombosis and Vascular Biology*, 20:2533-2538, 2000.
 98. Thomas JC, **Lopes-Virella, MF**, Del Bene, VE, Cerveny, JD, Taylor, KB, McWhorter,

- LS and Bultemeier, NC: Use of Fenofibrate in the Management of Protease Inhibitor-Associated Lipid Abnormalities. *Pharmacotherapy* 20(6): 727-734, 2000.
99. Huang Y, Song L, Wu S, Fan F and **Lopes-Virella, MF**. "Oxidized LDL differentially regulates MMP-1 and TIMP-1 Expression in Vascular Endothelial Cells, *Atherosclerosis*, 156:119-125, 2001.
 100. Takei, A, Huang Y and **Lopes-Virella MF**. "Expression of adhesion molecules by human endothelial cells exposed to oxidized low density lipoprotein" *Atherosclerosis.*, 154:79-86, 2001.
 101. Klein R, Ascensão JL, Mironova M, Huang Y, **Lopes-Virella, MF**, "Effect of Inflammatory Cytokines on the Metabolism of LDL By Human Vascular Endothelial Cells. *Metabolism*, 50:99-106, 2001.
 102. Song L, Xu M, **Lopes-Virella MF** and Huang, Y. "Quercetin Inhibits Matrix Metalloproteinase-1 Expression in Human Vascular Endothelial Cells through Extracellular Signal-Regulated Kinase. *Archives of Biochemistry and Biophysics*, 391:72-78, 2001
 103. Fu Y, Luo N, **Lopes-Virella MF**. Upregulation of interleukin-8 expression by prostaglandin D2 metabolite 15-deoxy-delta12, 14 prostaglandin J2 (15d-PGJ2) in human THP-1 macrophages. *Atherosclerosis*, 160:11-20, 2002
 104. Anderson F, Game B, Atchley D, Xu M, **Lopes-Virella M**, Huang Y. "IFN- γ Pretreatment Augments Immune Complex-Induced Matrix Metalloproteinase-1 Expression in U937 Histiocytes". *Clinical Immunol.* 102:200-207, 2002.
 105. Fu Y, Luo N. **Lopes-Virella MF**, Garvet WT. The adipocyte lipid binding protein (ALBP/aP2) gene facilitates foam cell formation in human macrophages. *Atherosclerosis* 165: 259-69, 2002
 106. Virella G, Atchley D, Koskinen S, Zheng D, **Lopes-Virella MF** and the DCCT/EDIC Research Group. "Pro-atherogenic and pro-inflammatory properties of immune complexes prepared with purified human oxLDL antibodies and human oxLDL". *Clinical Immunology*, 105:81-92, 2002.
 107. Vielma S, Gorod AJ, Virella G and **Lopes-Virella, MF**. "Chlamydia Pneumoniae infection of human aortic endothelial cells induces the expression of Fc γ Receptor II (Fc γ RII). *Clinical Immunology*, 104:265-273, 2002.
 108. Atchley D, **Lopes-Virella MF**, Zheng D, Virella G and the DCCT/EDIC Research Group. Oxidized LDL-anti-oxidized LDL immune complexes and diabetic nephropathy. *Diabetologia*, 45:1562-1571, 2002
 109. Eckel RH, Wassef M, Chait A, Sobel B, Barrett E, King G, **Lopes-Virella M**, Reusch J, Ruderman N, Steiner G and Vlassara H: Prevention Conference VI: Diabetes and Cardiovascular Disease: Writing Group II: pathogenesis of atherosclerosis in diabetes, *Circulation* 105: 138-143, 2002
 110. Virella G, Thorpe, S, Alderson, NL, Stephan, E, Atchley D, Wagner, F and **Lopes-Virella MF** and the DCCT/EDIC Research Group. Auto-immune response to advanced glycation end-products of human low density lipoprotein. *Journal of Lipid Research*, 44, 487-493, 2003
 111. Virella G. and **Lopes-Virella, MF**: Humoral immunity and Atherosclerosis, *Nature Medicine*, 9:243-244, 2003
 112. **Lopes-Virella MF** and G. Virella : The role of immune and inflammatory processes in the development of macrovascular disease in diabetes. *Frontiers in Bioscience*, 8: s750-768, 2003

113. Vielma SA, Kreggs G and **Lopes-Virella MF**: *Chlamydomydia pneumoniae* induces ICAM-1 Expression in human aortic endothelial cells via Protein Kinase C–dependent activation of Nuclear Factor κ -B: *Circulation Research* 92:1130-7,2003
114. Fu Y, Huang Y, Bandyopadhyay s, Virella G and **Lopes-Virella MF**: LDL immune complexes stimulate low density lipoprotein receptor expression in U937 histiocytes via extracellular signal-regulated kinase and AP-1. *Journal of Lipid Research*, 44:1315-21,2003
115. VirellaG and **Lopes-Virella MF**: Lipoprotein Autoantibodies: measurement and significance. *Clinical and Diagnostic Laboratory Immunology*, 10:499-505,2003
116. Game B, Xu M, **Lopes-Virella MF** and Huang Y: Regulation of MMP-1 expression in vascular endothelial cells by insulin sensitizing thiazolidinediones, *Atherosclerosis*, 169:235-243, 2003.
117. **Lopes-Virella MF**, Mironova M, Stephan E, Durazo-Arvizu R, Virella G: The role of Simvastatin as an immunomodulator in Type 2 Diabetes, *Diabetes Care*, 27: 908-13, 2004
118. Vielma, SA, Mironova M. Ku J-R, **Lopes-Virella MF**: Oxidized LDL further enhances expression of adhesion molecules in *Chlamydomydia pneumoniae*–infected endothelial cells, *J. Lipid Res.* 45: 873-80, 2004
119. Virella, G, Thorpe SR, Alderson N, Derrick MB, Rhett M , Chassereau C and **Lopes-Virella MF**: Definition of the immunogenic forms of modified human LDL recognized by human auto-antibodies and by rabbit hyperimmune antibodies, *J Lipid Res*, 45:1859-67, 2004
120. Maldonado A, He L, Game BA, Nareika A, Sanders JJ, London SD, **Lopes-Virella, MF** and Huang, Y.: Pre-exposure to high glucose augments LPS-stimulated matrix metalloproteinase 1 expression by human U937 histiocytes. *J Periodontal Research*, 39:415-423, 2004
121. Costacou T, Zgibor JC, Evans RW, Otvos J, **Lopes-Virella MF** and Orchard T: The role of adiponectin in coronary artery disease among individuals with type 1 diabetes. The Pittsburgh Epidemiology of Diabetes Complications (EDC) Study, *Diabetologia*, 48:41-8, 2005, electronic public Dec 23, 2004
122. Kraml,P, Klein RL, Huang Y, Nareika A and **Lopes-Virella MF**: Iron Loading enhances LDL uptake via MSR-I scavenger receptor in THP-1 macrophages, *Metabolism* 54:453-9, 2005
123. Virella G, Derrick MB, Pate, V, Chassereau C, Thorpe S and **Lopes-Virella MF**: Development of capture assays for different modifications of human low density lipoprotein, *Clinical and Diagnostic Laboratory Immunology*, 12:68-75, 2005
124. **Lopes-Virella MF**, Thorpe S, Derrick MB, Chassereau C, and Virella G: The immunogenicity of modified lipoproteins. *Annals of New York Academy of Sciences*, 1043: 367-378, 2005
125. Costacou T, Zgibor JC, Evans RW, **Lopes-Virella, MF**, Orchard T: Markers of endothelial dysfunction in the prediction of coronary heart disease in type 1 diabetes. The Pittsbutgh Epidemiology of Diabetes Complications study *Journal of Diabetes and its Complications*, 19:183-193,2005
126. Nareika A, He L, Game BA, Sanders JJ, London SD, **Lopes-Virella MF** and Huang Y. Sodium Lactate and Lipopolysaccharide exert synergistic effect on MMP and Cytokine Expression in U937 Histiocytes through Nf κ B and MAPK Pathways. *American Journal of Physiology Endocrinol Met* 289: E534-E542, 2005

127. Yishak AA, Costacou T, Virella G, Zgibor J, Fried L, Walsh M, Evans RW, **Lopes-Virella MF**, Kagan VE, Otvos J and Orchard TJ: Novel predictors of overt nephropathy in subjects with type 1 diabetes. A nested case control study from the Pittsburgh Epidemiology of Diabetes Complications (EDC) cohort. *Nephrol Dial Transpl*, 21: 93-100, 2006
128. Lyons TJ, Jenkins AJ, Zheng D, Klein RL, Otvos JD, Yu Y, Lackland DT, McGee D, McHenry MB, **Lopes-Virella MF**, Garvey WT and the DCCT/EDIC Research Group. Nuclear Magnetic Resonance-determined Lipoprotein Subclass Profile in the DCCT/EDIC cohort: Association with Carotid Intima Media Thickness. *Diabetic Medicine*, 23:955-66, 2006
129. Hammad SM, Taha TA, Nareika A, Johnson KR, **Lopes-Virella MF** and Obeid, L: Oxidized LDL-Immune complexes induce release of sphingosine kinase in human macrophages. *Prostaglandins and Other Lipid mediators*, 79: 126-40, 2006
130. **Lopes-Virella, Maria F**, McHenry MB, Lipsitz S, Yim E, Wilson PF, Lackland DT, Lyons T, Jenkins AJ, Virella G and the DCCT/EDIC Research Group. Immune Complexes containing modified Lipoproteins are related to the progression of internal carotid intima-media thickness in patients with type 1 diabetes. *Atherosclerosis*, 190: 359-369, 2007
131. Saad AF, Virella G, Chassereau C, Boackle RJ, **Lopes-Virella MF**: Autoimmune oxLDL Immune Complexes activate the classical pathway of complement and induce cytokine production by MonoMac cells and human macrophages, *J Lipid Res*, 47:1975-83, 2006
132. Game BA, He L, Jarido V, Nareika A, Jaffa AA, **Lopes-Virella MF** and Huang Y: Pioglitazone inhibits connective growth factor expression in advanced atherosclerotic plaques in low density lipoprotein receptor deficient mice. *Atherosclerosis* 192:85-91, 2007 (Epub on August 8, 2006) 192: 85-91, 2007
133. Nareika A, Maldonado A, He L, Game BA, Slate EH, Sanders JJ, London SD, **Lopes-Virella MF** and Huang Y: High glucose-boosted inflammatory responses to lipopolysaccharide are suppressed by statins. *J Periodontal Res* 42: 31-8, 2007
134. Carter, RE, Lackland DT, Cleary PA, Yim E, Lopes-Virella M, Gilbert GE, Orchard TJ and the DCCT/EDIC Research Team. Intensive Treatment of Diabetes is associated with a reduced rate of peripheral arterial calcification in Diabetes Control and Complications trial /Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC). *Diabetes Care*, 30:2646-2648, 2007
135. Alena Nareika, Yeong-Bin Im, Bryan A. Game, Elizabeth H. Slate, John J. Sanders, Steven D. London, Maria F. Lopes-Virella, Yan Huang. High Glucose Enhances Lipopolysaccharide-Stimulated CD14 Expression in U937 Mononuclear Cells by Increasing NFkB and AP-1 Activities. *Journal of Endocrinology*, 196:45-55, 2008
136. Brock JW, Jenkins AJ, Lyons TJ, Klein RL, Yim E, Lopes-Virella M, Carter RE, Thorpe SR, Baynes JW, and the DCCT/EDIC Research Group: Increased methionine sulfoxide content of Apo A1 in type 1 diabetes. *J Lipid Res* 49:847-55, 2008
137. Jaffa A, Usinger W, McHenry B, Lipsitz S, Yan T, Wang B, Lackland D, Lopes-Virella MF, Luttrell L and Wilson P. Connective Tissue Growth factor and susceptibility to vascular disease risk in type 1 diabetes. *The Journal of Clinical Endocrinology & Metabolism*, 93:1893-900, 2008
138. Virella G, Carter RE, Saad A, Crosswell EG, Game BA and Lopes-Virella, MF: Distribution of IgM and IgG antibodies to oxidized LDL in immune complexes isolated from patients with type 1 diabetes and its relationship with nephropathy. *Clinical Immunology*, 127:394-400, 2008
139. Virella, G. and Lopes-Virella, M.F. Atherogenesis and the Humoral Immune Response to

- Modified Lipoproteins. *Atherosclerosis*, 200:239-246, 2008.
140. Hammad, S.M., Twal, W.O., Barth, J.L., Smith, K.J., Saad, A.F., Virella, G., Argraves, W.S., Lopes-Virella, M.F. Oxidized LDL immune complexes and oxidized LDL differentially affect the expression of genes involved with inflammation and survival in human U937 monocytic cells. *Atherosclerosis*, 202: 394-404, 2009.
141. Lopes-Virella, MF, Carter R, Klein R, Jaffa M, Jenkins A, Lyons T, Garvey WT , Virella G and the DCCT/EDIC Group of Investigators: Risk factors related to Inflammation and Endothelial Dysfunction in the DCCT/EDIC cohort and their relationship with Nephropathy and macrovascular Complications. *Diabetes Care*. 31:2006-12, 2008.
142. Nareika A, Sundararaj KP, Im YB, Game BA, Lopes-Virella MF, Huang Y: High glucose and Interferon Gamma synergistically stimulate MMP-1 expression in U937 macrophages by increasing Transcription Factor STAT1 activity. *Atherosclerosis* 202:363-371, 2009.
143. Cole CM, Sundararaj KP, Leite RS, Nareika A, Slate EH, Sanders JJ, Lopes-Virella MF, Huang Y. A trend of increase in periodontal IL-6 expression across patients with neither diabetes nor periodontal disease, patients with periodontal disease alone, and patients with both diseases. *Journal of Periodontal Research*, 43: 717-722, 2008.
144. Sundararaj KP, Li Y, Samuvel DJ, Nareika A, Slate EH, Sanders JJ, Lopes-Virella MF, Huang Y. Simvastatin Suppresses LPS-Induced MMP-1 Expression in U937 Mononuclear Cells by Inhibiting Protein Isoprenylation-mediated ERK Activation, *Journal of Leukocyte Biology* 84: 1120-9, 2008.
145. Samuvel DJ, Sundararaj KP, Nareika A, Lopes-Virella MF, Huang Y. Lactate Boosts TLR4 Signaling and NFkB Pathway-Mediated Gene Transcription in Macrophages via Monocarboxylate Transporters and MD-2 Upregulation. *Journal of Immunology*, 182:2476-2484, 2009
146. Sundararaj KP, Samuvel DJ, Li Y, Sanders JJ, Lopes-Virella MF, Huang Y. IL-6 released from fibroblasts is essential for upregulation of MMP-1 expression by U937 macrophages in coculture - Crosstalk between fibroblasts and U937 macrophages exposed to high glucose. *Journal of Biological Chemistry*, In press, 2009.
147. Lopes-Virella, MF and Virella G: Clinical Significance of the Humoral Immune Response to Modified LDL, *Clinical Immunology*, 128: In print, 2009

BOOK CHAPTERS

1. **Lopes MF**. "Chronic Broncho-pulmonary Disease and Mucoviscidosis - Determination of Sweat Chloride Concentrations." Graduate thesis presented to the Medical School, Lisbon, 1967 (Port.).
2. Colwell JA and **Lopes-Virella MF**. "Lipids and Lipoproteins in Diabetes Mellitus." *Handbook of Diabetes Mellitus, Vol. IV*, ed. Brownlee M, STPM Press, New York, 1981, pp 117-131.
3. Virella G, **Lopes-Virella MF** and Estes G. "Nephelometric Assays in Clinical Immunology." *Microbiology*, ed. by American Society of Microbiology, 1981, pp. 326-331.
4. **Lopes-Virella MF** and Virella G. "Immunochemical Determination of Human Apolipoproteins by Laser Nephelometry." *Proceedings of the Workshop on Apolipoprotein Quantification*, ed. Lippel K, NIH Publication No. 83-1266, 1983, pp 289-304.

5. Virella G and **Lopes-Virella MF**. “Diagnostic Value of Quantitative Studies of Urinary Proteins.” In: *Methods in Nephrology: A Handbook for the Nephrological Team*, ed. Lubec G, J. Libbey, London, 1983, pp 150-160.
6. **Lopes-Virella MF**. “Metabolism of Low Density and High Density Lipoproteins by Cultured Cells.” *Proceedings of the International Symposium on Atherosclerosis in Diabetes Mellitus*, Osaka, Japan, 1986, pp 155-163.
7. **Lopes-Virella MF**. “Métabolisme Dès Lipoprotéines Au Cours Du Diabète Sucré.” *Journées De Diabétologie Hôtel-Dieu*, M. Rathery, Medecine-Sciences Flammarion, Paris, pp 55-66, 1987 (French).
8. Colwell JA, **Lopes-Virella MF**, Winocour PD and Halushka PV. “New Concepts about the Pathogenesis of Atherosclerosis in Diabetes Mellitus.” *Diabetic Foot*, 4th edition, ed. Levin M and O'Neal LW, C.V. Mosby Co., Washington, DC, 1987, pp 51-70.
9. Colwell JA, Winocour P and **Lopes-Virella MF**. “Platelet Function and Platelet Plasma Interactions in Arteriosclerosis and Diabetes Mellitus.” *Diabetes Mellitus, Theory and Practice*, ed. Ellenberg M and Rifkin H, Elsevier Science Publishing Co., 1989, pp 249-256.
10. **Lopes-Virella MF** and Virella G. “Virus and Arteriosclerosis, Le Risque Vasculaire.” *Proceedings of the 4 èmes Recontrés Internationales de Recherches et de Technologies MédOicales et Pharmaceutiques (EUROMEDECINE 88)*, Montpellier, France, 1988, pp 400-402.
11. **Lopes-Virella MF** and Virella G. “Immune Mechanisms in the Pathogenesis of Arteriosclerosis.” *Hypercholesterolemia, Hypocholesterolemia, Hypertriglyceridemia*. Proceedings of the 5th International Colloquium of the Fondation de Recherche sur l'Atherosclerosis, ed by C. L. Malmendier et al., Plenum Publishing Co , New York, 1990, pp 383-392.
12. **Lopes-Virella MF** and Virella G. “The Role of Immune Mechanisms in the Pathogenesis of Atherosclerosis in Diabetes Mellitus.” *Proceedings of the XIV International Diabetes Federation Congress*, Elsevier Publications, 1992.
13. **Lopes-Virella MF** and Virella G. “Immune Mechanisms of Atherosclerosis in Diabetes Mellitus.” *Proceedings of the 9th International Symposium on Atherosclerosis*, ed. Stein Y and Eisenberg S, R&L Creative Communications, LTD., 1992.
14. Colwell JA, Lyons TJ, Klein RL and **Lopes-Virella MF**. “New Concepts about the Pathogenesis of Atherosclerosis and Thrombosis in Diabetes Mellitus.” *Diabetic Foot*, ed. Levin ME and O'Neal LW, C.V. Mosby Co., 1993, pp 79-114.
15. Lyons TJ and **Lopes-Virella MF**. “Diabetes and Atherosclerosis: Glycosylation Related Mechanisms.” *Diabetes and Atherosclerosis*, ed. Draznin B and Eckel R, Elsevier Science Publishing Co., 1993, pp 169-189.
16. **Lopes-Virella MF**. “Interrelated Metabolism Imbalances Linked to Hyperglycemia-induced Vascular Dysfunction.” *Pathogenesis and Treatment of NIDDM and Its Related Problems*, ed. Sakamoto N, Alberti KGMM and Hotta N, Elsevier Science B.V., 1994, pp 29-36.
17. **Lopes-Virella MF** and Virella G. “Immune-mediated Mechanisms of Atherogenesis in Diabetes.” *Diabetes*, ed. Baba S and Kaneko T, Elsevier Science B.V., 1995, pp 399-405
18. **Lopes-Virella MF**. “Biochemical Aspects of Macrovascular Disease.” *International Textbook of Diabetes Mellitus*, 2nd edition, ed, Alberti KGMM, DeFronzo RA, Keen H and Zimmet P, John Wiley, 1:1631-1642, 1997

19. Colwell JA, Lyons TJ, Klein RL, **Lopes-Virella MF** and Jokl, RJ. "Atherosclerosis and Thrombosis in Diabetes Mellitus: New Aspects of Pathogenesis." *Diabetic Foot*, ed. Levin ME and O'Neal LW, C.V. Mosby Co., 4:65-106, 2000
20. **Lopes-Virella MF**. "Diabetes and Atherosclerosis." in *Diabetes and Cardiovascular Disease*, ed by Johnstone M and Veves A., The Humana Press Inc, Totowa, NJ, pp 169-194, 2001
21. **Lopes-Virella MF**, Jenkins C and Mironova M. "Nutrition in Diabetes Mellitus" in *Handbook of Nutrition and Food*, ed by Feldman E and St.Jeor, CRC Press LLC, Boca-Baton, Florida, 53:1077-1111, 2001
22. **Lopes-Virella MF** and G. Virella. Diabetes and Atherosclerosis, in *Contemporary Cardiology: Diabetes and Cardiovascular Disease*, 2nd Edition, eds MT Johnstone and A. Veves, pps 225-258, Humana Press Inc Totowa, NJ, 2006
23. John A Colwell, Timothy J Lyons, Richard L Klein, **Maria F Lopes-Virella**, Rudolf J Jokl. "Atherosclerosis and Thrombosis in Diabetes Mellitus: New Aspects of Pathogenesis" (pp. 89 - 113). in Levin and O'Neal's *The Diabetic Foot*, 7th edition. John H Bowker and Michael A Pfeifer (eds). Mosby, Inc. Philadelphia, PA. 2008
24. **Lopes-Virella MF** and Jenkins C. "Nutrition in Diabetes Mellitus" in *Handbook of Nutrition and Food*, ed by C.Berdanier, J. Dwyer and E.Feldman, CRC Press LLC, Boca-Baton, Florida, pps785-813, 2008

ABSTRACTS (Presented at Meetings and/or Published)

1. **Lopes-Virella MF**, Stone P and Colwell JA. "Serum High Density Lipoprotein (HDL) in Diabetic Patients." *Clin Res* 24:581A, 1976.
2. **Lopes-Virella MF**, Virella G, Owens J, DeBeukelaer M, Garfinkel H and Colwell JA. "Urinary Lipids and Lipoproteins in Patients with Kidney Diseases." *Clin Res* 25:61A, 1977.
3. **Lopes-Virella MF**, Virella G, DeBeukelaer M, Owens J and Colwell JA. "Serum and Urinary Lipoproteins in Lipoid Nephrosis." *Clin Res* 25:441A, 1977.
4. **Lopes-Virella MF**, Stone P and Colwell JA. "Serum High Density Lipoprotein in Diabetes Mellitus." Presented to the American College of Physicians (58th Annual Session) Dallas, Texas, April 12-21, 1977.
5. **Lopes-Virella MF**, Gonzalez J, Rosebrock G, Lichtenstein L, Sagel J and Colwell JA. "High Density Lipoprotein Cholesterol (HDL-Chol) and Apolipoprotein A Levels in Diabetics with and without Macrovascular Disease." *Diabetes* 26 (Suppl 1):31, 1977. Presented to the American Diabetes Association (37th Annual Meeting), St. Louis, Missouri, June 5-7, 1977.
6. **Lopes-Virella MF**, Virella G, Gonzalez J, Rosebrock G and Colwell JA. "Screening of Diabetic Nephropathy by Analysis of Urinary Proteins using SDS-PAGE." *Diabetes* 26 (S1):272, 1977.
7. **Lopes-Virella MF**, Rosebrock G, Virella G, Sagel J, Gonzalez J and Colwell JA. "Analytical Study of Urinary Proteins in Diabetes." *Diabetes* 27 (S2):490, 1978.
8. **Lopes-Virella MF**, Virella G, Levine J, Ogawa M and Gonzalez J. "Idiopathic Bence-Jones Proteinuria." *Clin Res* 26:351A, 1978.
9. Sagel J, **Lopes-Virella MF**, Colwell JA and Levine JH. "Altered High Density Lipoprotein

- Cholesterol (HDL-Chol) in Hypothalamic-pituitary Disorders.” *Clin Res* 26:758A, 1978.
10. **Lopes-Virella MF**, Virella G, DeBeukelaer M, Owens J and Colwell JA. “Absence of Apolipoprotein A in the Urines of Patients with Minimal Change Glomerular Disease.” *Clin Res* 26:805A, 1978.
 11. O'Dell R, Adams K, **Lopes-Virella MF** and Virella G. “Post Hemolytic Acute Renal Failure in Chronic CHD.” International Colloquium devoted to Cryoproteins, Grenoble, France, September 21-23, 1978.
 12. Mayfield RK, Levine JH, **Lopes-Virella MF**, Gordon L, Sagel J and Buse MG. “Severe Hyperlipidemia Prevents Adrenal Imaging with 131-I-6-b-iodomethyl-19-norcholesterol (131-I-Chol).” *Clin Res* 27:257A, 1979.
 13. **Lopes-Virella MF** and Wohltmann H. “Plasma High Density Lipoprotein Cholesterol (HDL-Chol) Increases with Control in Insulin-dependent Young Male Diabetics.” *Diabetes* 28(S 1): 16, 1979. Presented to the American Diabetes Association, 39th Meeting, Los Angeles, California, June 1979.
 14. Colwell JA, Halushka P, **Lopes-Virella MF**, Nair RMG, Sarji K and Sagel J. “Vascular Risk Factors in Diabetes Mellitus.” 10th Congress of the International Diabetes Federation, Vienna, Austria, September 9-14, 1979.
 15. Gordon L, Mayfield RK, Levine JH, **Lopes-Virella MF**, Sagel J and Buse MG. “Erroneous Negative Adrenal Imaging with 131-I-6-b-iodomethyl-19-norcholesterol (131-I-Chol).” Presented to the Society of Nuclear Medicine 26th Annual Meeting, 1979.
 16. Virella G, Wohltmann H, Sagel J, **Lopes-Virella MF**, Kilpatrick M and Colwell JA. “Detection of Soluble Immunocomplexes in Patients with Diabetes Mellitus.” *Diabetes* 29:323, 1980.
 17. **Lopes-Virella MF**, Sherer G, Wohltmann H, Mayfield R, Sagel J, Leroy C and Colwell JA. “*In Vitro* behavior of LDL Isolated from Insulin-dependent Diabetics. Relationship with Metabolic Control.” *Clin Res* 28: 891A, 1980. Presented to the Southern Society for Clinical Investigation, New Orleans, Louisiana, January 1981.
 18. **Lopes-Virella MF**, Sherer G, Lees AM, Wohltmann H, Mayfield R, Sagel J, Leroy C and Colwell JA. “Uptake and Degradation by Human Fibroblasts of LDL Isolated from Diabetic Patients. Changes with Metabolic Control.” *Clin Res* 29: 425A, 1981. Presented to the National Meeting of the American Federation for Clinical Research, San Francisco, California, April 25-27, 1981.
 19. **Lopes-Virella MF**, Wohltmann H, Colwell JA and Mayfield R. “Effect of Metabolic Control on Lipid, Lipoprotein and Apolipoprotein Levels in Insulin Dependent Diabetes (IDDM).” *Diabetes* 31: 55, 1982. Presented to the 42nd Annual Meeting of the American Diabetes Association, San Francisco, California, June 1982.
 20. **Lopes-Virella MF**, Sherer G, Wohltmann H and Colwell JA. “LDL-uptake and Degradation by Human Fibroblasts Incubated with Normal or Diabetic Lipoprotein Deficient Sera (LPDS).” *Diabetes* 32: 58, 1983. Presented to the 43rd Annual Meeting of the American Diabetes Association, San Antonio, Texas, June 1983.
 21. **Lopes-Virella MF**, Mordes D, Harstine L and Colwell J. “Plasma Hepatic and Lipoprotein Lipase Activities after Prolonged Infusion of Heparin in Type II Diabetic Females.” *Clin Res* 31: 851A, 1983. Presented at the Southern Society for Clinical Investigation, New Orleans, Louisiana, January 1984.
 22. Mayfield R, Halushka P, Wohltmann H, Colwell J and **Lopes-Virella MF**. “Effects of

- Glycemic Control on Platelet Function in Insulin-dependent Diabetes Mellitus.” *Diabetes* 33:208,1984. Poster Presentation at the 44th Annual Meeting of the American Diabetes Association, Las Vegas, Nevada, June 10-13, 1984.
23. **Lopes-Virella MF**, Mordes D, Harstine L and Colwell JA. “Comparison of Plasma Hepatic and Lipoprotein Lipase Activities during Prolonged Heparin Infusion in Control and Type II Diabetic Females.” *Diabetes*, 33:625, 1984.
 24. **Lopes-Virella MF**, Klein RL and Stevenson HC. “Enhancement of Cholesteryl Ester Synthesis in Human Macrophages Activated by Bacterial Lipopolysaccharides and Muramyl Dipeptide.” *Clinical Research* 33:436A, 1985.
 25. **Lopes-Virella MF**, Klein RL and Stevenson HC. “Infectious Processes may Accelerate Atherosclerosis in Diabetes Mellitus.” *Diabetes* 34:257, 1985. Poster presentation at the 45th Annual Meeting, American Diabetes Association, Baltimore, Maryland, June, 1985.
 26. **Lopes-Virella MF**, Sherer G, Wohltmann H, Sens D and Colwell JA. “Diabetic Lipoprotein Deficient Serum (LPDS) Inhibits Low Density Lipoprotein (LDL) Receptor Activity.” *Arteriosclerosis* 5:511a, 1985.
 27. **Lopes-Virella MF**, Klein RL, Lyons T, Stevenson HC and Witztum JL. “*In Vitro* Glucosylated LDL (Glu-LDL) Enhances Cholesteryl Ester (CE) Synthesis in Human Monocyte-derived Macrophages.” *Circulation* 77:817, 1985 and *Arteriosclerosis* 5:507a, 1985. Presented to the 58th Annual Meeting, American Heart Association, Washington, DC, November 11-14, 1985.
 28. Lyons TJ, Klein RL, Baynes JW and **Lopes-Virella MF**. “Stimulation of Cholesteryl Ester (CE) Synthesis in Human Monocyte-derived Macrophages by LDL Isolated from Diabetic Patients.” *Clin Res* 34:208A, 1985. Presented to the Southern Society for Clinical Investigation, New Orleans, Louisiana, February 1986.
 29. Lyons TJ, Klein RL, Patrick JS, **Lopes-Virella MF** and Baynes JW. “Glycation of Plasma Lipoproteins in Diabetes: Correlation with Other Indices of Glycemic Control and Effects on Cholesterol Metabolism in Macrophages.” Presented to the American Society of Biologic Chemists, Washington, DC, May 1986.
 30. Lyons TJ, Klein RL, Baynes J and **Lopes-Virella MF**. “VLDL and LDL from Diabetic Patients Stimulate Increased Cholesteryl Ester (CE) Synthesis in Human Monocyte-derived Macrophages.” *Diabetes* 35:266, 1986.
 31. **Lopes-Virella MF**, Klein RL, Lyons TJ, Stevenson HC and Witztum JL. “Metabolism of *in vitro* Glucosylated LDL (91c-LDL) by Human Monocyte-derived Macrophages.” *Diabetes* 35:356, 1986. Presented to the 46th Annual Meeting of the American Diabetes Association, Anaheim, California, June 21-24, 1986.
 32. **Lopes-Virella MF**, Klein RL and Stevenson HC. “Possible Role of Infectious Processes in the Acceleration of Atherosclerosis.” Presented to the Annual Meeting of the American College of Physicians, South Carolina Chapter and South Carolina Society of Internal Medicine, October 10-12, Kiawah, South Carolina, 1986.
 33. **Lopes-Virella MF**, Wohltmann JH, Klein RL and Stevenson HC. “CE Synthesis in Human Macrophages Exposed to VLDL Isolated from Type I Diabetic Patients.” *Diabetes* 36:101, 1987.
 34. Klein RL, Lyons TJ, Stevenson HC and **Lopes-Virella MF**. “Interaction of VLDL Isolated from Type II Diabetic Subjects with Human Macrophages.” *Diabetes* 36:103, 1987.
 35. Griffith RL, Virella GT, Stevenson HC and **Lopes-Virella MF**. “LDL-immune Complex

- Activation of Human Macrophages: A Possible Role in Foam Cell Formation.” *Arteriosclerosis* 7:5479, 1987.
36. Griffith RL, Virella GT, Stevenson HC and **Lopes-Virella MF**. “Alteration of Native LDL Metabolism in Immune Complex Stimulated Human Macrophages.” *Arteriosclerosis* 7:546a, 1987.
 37. Griffith RL, Virella GT, Stevenson HC and **Lopes-Virella MF**. “LDL Metabolism by Macrophages Activated with Low Density Lipoprotein Immune Complexes: A Possible Mechanism of Foam Cell Formation.” *Clin Res.* 36: 31A, 1988. Presented to the Southern Society for Clinical Investigation, New Orleans, Louisiana, February 1988.
 38. Klein RL and **Lopes-Virella MF**. “Interaction of VLDL Subfractions Isolated from Type 1 Diabetic Subjects with Human Endothelial Cells.” *Diabetes* 37:274, 1988.
 39. Dunn FL, Cleary PA, Schrott HG, Oexmann MJ, Castle G, Steffes MW, **Lopes-Virella MF** and Nathan DM for the DCCT Research Group. “Lipid Levels in Patients with Type I Diabetes: Baseline Studies in the DCCT.” *Diabetes* 37:838, 1988.
 40. Griffith RL, Virella GT, Stevenson MF and **Lopes-Virella MF**. “Low Density Lipoprotein (LDL) Metabolism by Human Macrophages Activated with Low Density Lipoprotein Immune Complexes: A Possible Mechanism of Foam Cell Formation.” Presented at the 8th International Symposium on Atherosclerosis, Rome, Italy, October 9-13, 1988.
 41. Griffith RL, Virella GT, Stevenson HC and **Lopes-Virella MF**. “Abnormal Low Density Lipoprotein (LDL) Metabolism in Immune Complex (IC)-stimulated Human Macrophages.” Presented at the 8th International Symposium on Atherosclerosis, Rome, Italy, October 9-13, 1988.
 42. Ascensão JL, Klein RL and **Lopes-Virella MF**. “Interleukin-1 Stimulates the Degradation of Low Density Lipoprotein by Human Endothelial Cells.” *Clinical Research* 37:404 A, 1989.
 43. Gisinger C, Virella G and **Lopes-Virella MF**. “Increased LDL Binding by Human Monocyte Derived Macrophages after Stimulation with Erythrocyte-bound LDL Immune Complex.” Presented to the International Atherosclerosis Congress, Vienna, Austria, April 20-22, 1989.
 44. Klein RL, Gisinger C and **Lopes-Virella MF**. “Interaction of Human Monocyte-derived Macrophages with Glycosylated and Non-glycosylated Subfractions of Low Density Lipoprotein (LDL) Isolated from Diabetic Patients.” *Diabetes* 38: 279, 1989. Presented to the International Atherosclerosis Congress, Vienna, Austria, April 20-22, 1989 and to the 49th Annual Meeting of the American Diabetes Association, Detroit, Michigan, June 1989.
 45. Stevens J, **Lopes-Virella MF**, Sutherland SE, Keil JE and Gazes PC. “Serum Lipids in the Elderly Charleston Heart Study Cohort and Correlations with BMI.” Presented to the 2nd International Conference on Preventive Cardiology and the 29th Annual Meeting of the AHA Council on Epidemiology, Washington, DC, June 18-22, 1989.
 46. Griffith RL, Virella G and **Lopes-Virella MF**. “LDL-containing Immune Complexes and Foam Cell Formation.” Presented to the 30th Annual Meeting of the American College of Nutrition, Norfolk, Virginia, September 1989.
 47. Griffith RL, Virella G and **Lopes-Virella MF**. “Lipoproteins, Immune Complexes, and Foam Cell Formation.” *Arteriosclerosis*, 9:735a, 1989.
 48. Griffith RL, Leman R, Virella G and **Lopes-Virella MF**. “LDL and Modified LDL Autoantibodies in Normal Subjects and Patients with Coronary Heart Disease.”

- Arteriosclerosis*, 9:735a, 1989.
49. Gisinger C, Virella GT and **Lopes-Virella MF**. "The Uptake of Soluble Lipoprotein Immune Complexes by Macrophages Induces Foam Cell Formation and Enhances LDL Receptor Expression." *Circulation* 80:653, 1989 and *Arteriosclerosis*, 9:735a, 1989. Presented to the 62nd National Meeting of the American Heart Association, New Orleans, Louisiana, November 13-16, 1989.
 50. Gisinger C, Virella G and **Lopes-Virella MF**. "Metabolism of Soluble LDL-immune Complexes by Macrophages: Evidence of Intracellular Antigen-antibody Dissociation and Disturbed LDL Degradation." Presented to the 5th International Colloquium, Fondation de Recherche sur l'Atherosclerose, Brussels, Belgium, March 14-16, 1990.
 51. Gisinger C, Virella G and **Lopes-Virella MF**. "Erythrocyte-bound Soluble Immune Complexes Induce Cholesteryl Ester Accumulation in Human Monocyte Derived Macrophages." *Diabetes* 39:175, 1990. Presented to the 50th Annual Meeting of the American Diabetes Association, Atlanta, Georgia, June 16-19, 1990.
 52. Klein RL, **Lopes-Virella MF** and Colwell JA. "Enhancement of Platelet Aggregation by the Glycosylated Sub-fraction of LDL Isolated from Patients with IDDM." *Diabetes* 39: 173, 1990. Presented to the 50th Annual Meeting of the American Diabetes Association, Atlanta, Georgia, June 16-19, 1990.
 53. Virella IL, Fourspring K, Leman RB, **Lopes-Virella MF** and Virella G. "Development of an Enzymoimmunoassay for Antibodies to Human Oxidized LDL." Presented to the American Society for Microbiology, Myrtle Beach, South Carolina, November 16-18, 1990.
 54. Virella G, Fourspring K, Hyman B and **Lopes-Virella MF**. "Depression of Humoral Immunity by Fish Oil Extracts." *FASEB Journal* 5:A1448, 1991. Presented at the FASEB Meeting, Atlanta, Georgia, April 21-25, 1991.
 55. Shunk KA and **Lopes-Virella MF**. "Mechanism of Cholesteryl Ester (CE) Accumulation in Human Monocyte/Macrophages (HMM) Stimulated with LDL: Anti-LDL Complexes (LDL-IC)." *Clinical Research* 39:800A, 1991. Presented to the Southern Society for Clinical Investigation, New Orleans, Louisiana, January 29-31, 1992.
 56. Jokl R, Klein RL, Colwell JA and **Lopes-Virella MF**. "Low Density Lipoproteins Isolated from Diabetic Patients Alter the Release of Tissue Plasminogen Activator (tPA) by Cultured Human Endothelial Cells." *Diabetes* 41:173, 1992. Presented to the 52nd meeting of the American Diabetes Association, San Antonio, Texas, June 20-23, 1992.
 57. Jokl R, Li W, Colwell JA, Klein RL, **Lopes-Virella MF** and Lyons TJ. "Glyoxidized LDL Modifies PAI-1 Release by Retinal Endothelial Cells." Presented to the 28th meeting of the European Association for the Study of Diabetes, Prague, Czechoslovakia, September 8-11, 1992.
 58. Munoz J, Virella G, Galbraith G and **Lopes-Virella MF**. "LDL-immune Complexes Activate Respiratory Burst and Cytokine Release in Human Monocyte-derived Macrophages." *Circulation* 86: 1334, 1992. Presented at the 65th National Meeting of the American Heart Association, New Orleans, Louisiana, November 16-19, 1992.
 59. Virella G and **Lopes-Virella MF**. "Autoimmunity and Atherosclerosis." *J.Immunol* 150:238A, 1993. Presented to the American Association of Immunologists and the Clinical Immunology Society, Denver, Colorado, May 22-26, 1993.
 60. **Lopes-Virella MF**, Peng Y-G and Chassereau CH. "Cyclosporine and Impaired Degradation by Human Monocyte-derived Macrophages of LDL Isolated from Heart-transplanted Patients." *Circulation*, 87: 1993. Presented at the 66th National Meeting of the

- American Heart Association, Atlanta, Georgia, November 8-11, 1993.
61. **Lopes-Virella MF**, Carter TD, Cutter GR, Hogan EL and Gaines KJ. "Race and Gender-Differences of Lipid/Lipoproteins in Stroke Patients - SECORDS Study." *Circulation*, 88:1994. Presented at the 67th National Meeting of the American Heart Association, Dallas, Texas, November 14-17, 1994.
 62. **Lopes-Virella MF** and Virella G. "Immune-Mediated Mechanisms of Atherogenesis in Diabetes." Presented at the 15th International Diabetes Federation Meeting, Kobe, Japan, November 6-11, 1994.
 63. **Lopes-Virella MF**. "Cytokines, Modified Lipoproteins and Arteriosclerosis in Diabetes Mellitus." Presented at the Symposium on Diabetes and Macrovascular Complications, Osaka, Japan, November 12-13, 1994.
 64. Virella G and **Lopes-Virella MF**. "Autoimmunity and Atherosclerosis." *Arquivos de Medicina* 8(S1):31, 1994.
 65. Virella G, Mironova M, Virella I and **Lopes-Virella MF**. "Competitive vs Differential Assays for Antibodies to Modified LDL." *FASEB Journal* 9: A1030,1995. Presented at the FASEB Meeting, Atlanta, Georgia, 1995.
 66. Mironova M, Virella G and **Lopes-Virella MF**. "Isolation and Characterization of Human Antibodies Against Oxidized LDL." *FASEB Journal* 9: A1030,1995. Presented at the FASEB Meeting, Atlanta, Georgia, 1995.
 67. Jokl R, Klein RL, Jenkins AJ, **Lopes-Virella MF** and Colwell JA. "Oral Vitamin E Supplementation Does Not Affect Platelet Plasminogen Activator Inhibitor-1 (PAI) Release in NIDDM Patients." *Diabetes* 44(S1):62A, 1995. Presented to the American Diabetes Association 55th Annual Meeting and Scientific Sessions, Atlanta, Georgia, June 13-15, 1995.
 68. Jenkins A, Chassereau C, Klein RL and **Lopes-Virella MF**. "*In Vitro* LDL Oxidizability is Not Increased in Patients with Well Controlled IDDM." *Diabetes* 44(S1):43A, 1995. Presented to the American Diabetes Association 55th Annual Meeting and Scientific Sessions, Atlanta, Georgia, June 13-15, 1995.
 69. **Lopes-Virella MF**, Mironova M, Chassereau C, Fair EC, Virella I and Virella G. "Transformation of Human Macrophages into Foam Cells Induced by Immune Complexes Isolated from Diabetic and Control Subjects." *Diabetes* 45(S2):995A, 1996.
 70. Ghosh M, Huang Y and **Lopes-Virella MF**. "Modified LDL-immune Complexes Upregulates Macrophage Scavenger Receptors in THP-1 Cells." Council on Arteriosclerosis for the 69th Scientific Sessions of the AHA, A1060, 1996.
 71. Huang Y, Ghosh M and **Lopes-Virella MF**. "Transcriptional and Post-transcriptional Regulation of the LDL Receptor Gene in THP-1 Cells Stimulated by LDL-IC." Council on Arteriosclerosis for the 69th Scientific Sessions of the AHA, A1075, 1996.
 72. Huang Y, Ghosh M and **Lopes-Virella MF**. "Massive Increase in ACAT Activity Induced by Fc Receptor Mediated Uptake of LDL-IC." Council on Arteriosclerosis for the 69th Scientific Sessions of the AHA, A1078, 1996.
 73. Virella G, Mironova M and **Lopes-Virella MF**. "The Atherogenic Potential of Anti-LDL Antibodies." *J. Allergy Clin. Immunol.* 99:S22, 1997.
 74. Koskinen S, **Lopes-Virella MF** and Virella G. "Standardization of an Enzymoimmunoassay for Measurement of Anti-oxLDL Antibodies." *Diabetes*, 47(S1):A365, 1998.

75. **Lopes-Virella MF** and Huang Y. "Oxidized LDL-Containing Immune Complexes Stimulate Mitogen-Activated Protein (MAP) Kinase in Macrophages." *Journal of Investigative Medicine*, 46:232A, March 1998. Poster presentation at Biomedicine '98, Washington, DC, May 2, 1998.
76. Takei A, Huang Y and **Lopes-Virella MF**. "Intercellular Adhesion Molecule-1 (ICAM-1) Expression Induced by ox LDL on Human Umbilical Vein Endothelial Cells (HUVEC) Depends on the Stage of LDL Oxidation." *Diabetes*, 47(S1):A115, 1998. Poster presentation at the American Diabetes Association 58th Annual Scientific Sessions, Chicago, Illinois, June 13-16, 1998.
77. **Lopes-Virella MF**, Koskinen S, Virella G and Orchard T. "Oxidized LDL antibodies and Immune Complexes Predict Coronary Artery Disease (CAD) in Type 1 Diabetes." *Diabetes*, 47(S1):A53, 1998. Presented at the American Diabetes Association 58th Annual Scientific Sessions, Chicago, Illinois, June 13-16, 1998.
78. Huang Y, Mironova M and **Lopes-Virella MF**. "Oxidized Low Density Lipoprotein Stimulates Matrix Metalloproteinase 1 in Human Vascular Endothelial Cells." Presented at the American Heart Association 71st Annual Meeting, Dallas, Texas, November 8-11, 1998.
79. Takei A, Crawford A, Huang Y and **Lopes-Virella MF**. "Advanced Glycation End-Products-LEL Stimulates Adhesion Molecule Expression by Human Aortic Endothelial Cells." Presented at the American Diabetes Association 59th Annual Scientific Meetings and Sessions, San Diego, California, June 19-22, 1999.
80. Huang Y, Fleming AJ, and **Lopes-Virella, MF**: LDL-containing immune complexes induce macrophage matrix metalloproteinase-1 expression via activation of a Fc gamma receptor I-linked mitogen activated protein kinase pathway. Presented at the American Heart Association, 72nd Annual Meeting, Atlanta, Georgia, November 7-10, 1999.
81. Fu Y, Luo N, **Lopes-Virella, MF**: IL 8 expression induced by glycated LDL in THP-1 macrophages. American Diabetes Association, 60th Annual Scientific Meetings and Sessions, San Antonio, Texas, June, 2000.
82. Atchley D, **Lopes-Virella, MF**, Zheng D, Virella G and DCCT/EDIC Research Group: The Pathogenic Role of Immune Complexes formed by Oxidized LDL and its Corresponding Antibodies in Diabetic Nephropathy. American Diabetes Association, 61st Annual Meeting, Philadelphia, Pennsylvania, *Diabetes*, 50(S2):A172, June, 2001
83. Xu M, Game BA, **Lopes-Virella MF**, Huang Y. Insulin sensitizer troglitazone stimulates matrix metalloproteinase-1 expression in human vascular endothelial cells. Presented at the American Diabetes Association, 61st Annual Meeting, Philadelphia, Pennsylvania, *Diabetes*, 50(S2):A170, June, 2001.
84. Game B.A., Maldonado, A. P., **Lopes-Virella, MF** and Huang, Y: Crosslinking of Fcγ receptor I and II synergistically stimulates extracellular signal-regulated kinase that induces AP-1 and Ets-mediated matrix metalloproteinase-1 expression in U937 histiocytes. Presented at the American Heart Association, 75nd Annual Meeting, Chicago, Illinois, November 17-20, 2002. *Circulation* 106, suppl, 4, 2002
85. Vielma, SA, Krings G, **Lopes-Virella, MF**: Protein Kinase C and Nuclear Factor-Kappa B Signaling Pathways Mediate the Upregulation of Intracellular Adhesion Molecule-1 Induced by *Chlamydophila pneumoniae*. Accepted for presentation at the 4th Annual Conference on Arteriosclerosis, Thrombosis and vascular Biology, May 8-10, 2003, Washington DC

86. Yishak AA, Virella G, Zgibor JC, Walsh, Costacou T, Evans RW, **Lopes-Virella MF**, Kagan VE, Orchard T: Role of immune complexes, oxidized LDL antibody and total oxidative reserve in diabetic nephropathy. Presented at the International Diabetes Federation Meeting, Paris, August 24-29, 2003.
87. Costacou T, Zgibor JC, Walsh M, **Lopes-Virella MF**, Otvos J, Orchard T: Why is E-selectin such a good predictor of CAD in type 1 diabetes? The Pittsburgh Epidemiology of Diabetes Complications Study. Presented at the National American Heart Association Meeting, Orlando, November 7-11, 2003
88. Andrea J. Semler, M. Brent McHenry, Daniel T. Lackland, Stuart R. Lipsitz, **Maria-Lopes Virella**, W. Timothy Garvey, Richard L. Klein, and the DCCT/EDIC Research Group : Associations of Adiponectin with Retinopathy in the DCCT/EDIC Cohort: Influence of Insulin Resistance. To be presented at the American Diabetes Association, 64st Annual Meeting, June 4-8, 2004, Orlando, Florida.
89. G.Virella, M. B. Derrick, C. Chassereau, S. R. Thorpe, and **M. F. Lopes-Virella**. The autoimmune response to modified human low-density lipoprotein. *Clinical Immunology*, Suppl.1: S211, 2005.
90. Silvana A. Vielma, J-R Ku, J. Bieawski, Obeid L, Virella, G, M Munoz and **M.F. Lopes-Virella**: Chamydophila pneumoniae alters the metabolism of sphingolipids and triggers an extensive coalescence of lipid rafts in human monocytic cells. Presented at the 6th Annual conference on Arteriosclerosis, Thrombosis and Vascular Biology, April 28-30,2005, Washington , DC
91. Alena Nareika, Lin He, Bryan A. Game, J.J. Sanders, S.D. London , **MF Lopes-Virella** and Y. Huang.: Sodium Lactate and LPS exert synergistic effect on MMP and cytokine expression in U937 histiocytes through NfκB and MAPK pathways. *Diabetes* 54: suppl 1; 1287-P, 2005.
92. Bryan A. Game, Lin He, V. Jarido, A. Jaffa, **MF Lopes-Virella** and Y. Huang.: Pioglitazone inhibits connective tissue growth factor expression during the progression of aortic atherosclerotic Plaque in LDL Receptor-deficient mice. *Diabetes* 54: suppl 1; 750-P, 2005.
93. **Lopes-Virella MF**, Lipsitz S, Wilson P, Lackland D, Lyons T, Jenkins A, Garvey WT, Virella G and the DCCT/EDIC Study Group. Modified Lipoprotein Immune Complexes and Progression of Internal Carotid Intima Medial Thickness in type 1 diabetes. Presented at the American Heart Association scientific sessions, Nov 13-16, 2005, Dallas, TX.
94. Jaffa A, Usinger WR, McHenry H, Lipsitz S, Lackland D, Luttrell L, Wilson PW, **Lopes-Virella MF** and the DCCT/EDIC Study Group. Elevated CTGF levels are an independent risk marker of diabetic vascular disease. Presented at the American Society for Nephrology, Nov 8-13, 2005, Philadelphia, PA.
95. Lok KH, Klein RL, Lyons TJ, **Lopes-Virella, MF**, Jenkins AJ, Yim E, Carter R, Garvey WT and the DCCT/EDIC Study Group: CETP gene variation has pronounced independent effect on HDL levels and HDL particle size in type 1 diabetes. Presented at the American Diabetes Association annual meeting, Washington DC June 9-13, 2006. *Diabetes*, 55, suppl 1, 1066-P, 2006.
96. Nareika A, Im Y-B, Game BA, Slate EH, Sanders JJ, London SD, **Lopes-Virella, MF** and Huang Y. High glucose markedly enhances lipopolysaccharide-induced CD14 expression in U937 histiocytes.. Presented at the American Diabetes Association annual meeting, Washington DC June 9-13, 2006. *Diabetes*, 55, suppl 1, 722-P, 2006.
97. ,Nareika A, Maldonado A, He L, Game BA, Slate EH, Sanders JJ, London SD, **Lopes-**

- Virella, MF** and Huang Y. Presented at the American Diabetes Association annual meeting, Washington DC June 9-13, 2006. *Diabetes*, 55, suppl 1, 679-P, 2006.
98. Lopes-Virella MF, Moritz, T. Luo P, Duckworth W, Abaira, C, Virella G and the VADT Study Group: Modified LDL-Immune complexes predict progression of albuminuria in type 2 DM. Accepted for presentation at the Endocrine Society 89th Annual meeting, Toronto, Canada, June 2-5, 2007
 99. Carter, RE, Cleary PA, Lackland DT, Yim E, Gilbert GE, Lopes-Virella M, Nathan DM, Orchard TJ and the DCCT/EDIC Research Team. Intensive Treatment of Diabetes is associated with a reduced rate of peripheral arterial calcification in Diabetes Control and Complications trial /Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC). Accepted for presentation at the 67th annual meeting of the American Diabetes association, Chicago, Illinois, June 22-26, 2007
 100. Christine M. Cole, Kamala P. Sundararaj, Renata S. Leite, Alena Nareika, Elizabeth H. Slate, John J. Sanders, Maria F. Lopes-Virella, Yan Huang. Periodontal IL-6 Expression in Diabetic and Nondiabetic Patients. Presented at the American Association of Dental Research Annual Meeting, Dallas, TX, April 2-5, 2008.
 101. Sundararaj KP, Li Y, Samuvel DJ, Nareika A, Lopes-Virella MF, Huang Y. Simvastatin Suppresses LPS-Induced MMP-1 Expression in U937 Mononuclear Cells by Inhibiting Ras and Rac Protein Isoprenylation-mediated ERK Activation. Presented at the American Heart Association Atherosclerosis, Thrombosis and Vascular Biology annual meeting, Atlanta, Georgia, April 16-18, 2008.
 102. Gabriel Virella, Rickey E. Carter, Antonio Saad, Edward G. Crosswell, B. Andrew Game, the DCCT/EDIC Study Group and Maria F. Lopes-Virella. Distribution of IgM and IgG antibodies to oxidized LDL in immune complexes isolated from patients with type 1 diabetes and its relationship with nephropathy. *Clinical Immunology*, 127 (suppl.):S77-78, 2008, Presented at the FOCI annual meeting, Boston, MA 5-8 June, 2008
 103. Sundararaj KP, Samuvel DJ, Li Y, Slate EH, Sanders JJ, Lopes-Virella MF, Huang Y. High glucose enhances fibroblast-mononuclear cell co-culture-boosted MMP-1 expression. Presented at the 68th American Diabetes Association Scientific Sessions in San Francisco, CA, June 6-10, 2008.
 104. Devaraj S, Lopes-Virella MF and Jialal I: Increased Circulating Immune Complexes and Fc gamma receptor expression on monocytes of patients with type 1 diabetes with microvascular complications. Presented at the American Diabetes Association Scientific Sessions in San Francisco, CA, June 6-10, 2008.