Ishwarlal Jialal, M.D., Ph.D.

Clinical Interests

Dr. Jialal specializes in cardiovascular pathology and clinical chemistry and toxicology. His research interests include cardiovascular pathology, lipoprotein metabolism, free-radical biology and mechanisms of antioxidant actions as they relate to atherosclerosis.

Dr. Jialal has published over 350 original papers and invited reviews in the areas of diabetes, atherosclerosis, lipid metabolism, nutrition and vascular biology. He has received numerous awards for his research, and has served on the editorial boards of numerous journals, including: *American Journal of Clinical Nutrition*, *Journal of Molecular and Cellular Cardiology* and *Atherosclerosis*. Currently, Dr. Jialal serves as section editor of the *American Journal of Clinical Pathology for Clinical Chemistry* and editor-in-chief of *Metabolic Syndrome and Related Disorders*. His major research interests are in the role of oxidative stress and inflammation in atherosclerosis, understanding the cellular dysfunction and the role of inflammation in metabolic syndrome, and understanding the pathobiology of diabetic vasculopathies. He also has a long-standing interest in hyperlipidemia and diabetes. His research has been funded over the years by the National Institutes of Health (NIH), the American Diabetes Association, the Juvenile Diabetes Research Foundation and the American Heart Association. He serves on the grant review panels of the American Diabetes Association and Juvenile Diabetes Research Foundation, as well as the National Institutes of Health, including the Mentored Clinical Scientist Development Award Grant Review Panel for the K-8 awards study section and other special-emphasis panels for the National Heart, Lung and Blood Institute.

Title

Director of Laboratory for Atherosclerosis and Metabolic Research
Professor
Robert E. Stowell Endowed Chair in Experimental Pathology

Specialty

Biological Chemistry, Pathology and Laboratory Medicine

Department

Internal Medicine

Division

Endocrinology, Diabetes, and Metabolism

Center/Program Affiliation

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Education

M.D., University of Natal Medical School, Durban, South Africa, 1976
Ph.D., University of Natal, Durban, South Africa, 1983
M.B./ChB., University of Natal, Durban, South Africa, 1976

Internships

King Howard VIII Hospital, Durban, 1977

Residency

R.K. Khan and King Edward VIII Hospital, Natal, 1978-1982
University of Natal, Durban, 1978-1982

Fellowships

Harvard Medical School, Boston, Massachusetts, 1983-1984
University of Washington, Seattle, Washington, 1987-1988

Board Certifications

American Board of Clinical Chemistry, 1994

Professional Memberships

American Association for Clinical Chemistry
American Association for the Advancement of Science
American Diabetes Association
American Federation for Medical Research
American Heart Association
American Society for Clinical Nutrition
American Society for Investigative Pathology
American Society of Clinical Pathology
American Society of Nutritional Sciences

Honors and Awards

Elected Member in Recognition of Outstanding Contributions to Medicine, Western Association of Physicians, 2006
Outstanding Contributions to Clinical Chemistry in a Selected Area of Research Award, American Association for Clinical Chemistry, 2003
Centrum Center Science for Nutrition Award, American Society of Nutritional Sciences, 2002
Distinguished Scientist Award, National Academy for Clinical Biochemistry, 2002
Grace Goldsmith Award, American College of Nutrition, 2000
Bennie Zak Award for Outstanding Research, Lipids and Lipoproteins Division, American Association of Clinical Chemistry, 1999
International Hermes Prize for Vitamin Research, 1999
Vitamin E Research Information Service (VERIS) Award for Nutrition Research (on Studies of the Effects of Vitamin E Supplementation on Atherosclerosis), 1996

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Ishwarlal Jialal, M.D., Ph.D.

American Hospital Association Young Investigator Award, 1989

Select Recent Publications

Devaraj S, Glaser N, Griffen S, Wang-Polagruto J, Miguelino E, Jialal I. Increased monocytic activity and biomarkers of inflammation in patients with type 1 diabetes. *Diabetes*, 55(3):774-779, 2006.

Devaraj S, Venugopal S, Singh U, Jialal I. Hyperglycemia induces monocytic release of interleukin-6 via induction of PKC a and b. *Diabetes*, 54(1):85-91, 2005.

Devaraj S, Du Clos T, Jialal I. Binding and internalization of C-reactive protein by Fc gamma receptors on human aortic endothelial cells mediates biological effects. *Arterioscler Thromb Vasc Biol*, 25(7):1359-63, 2005.

Venugopal S, Devaraj S, Jialal I. Macrophage-conditioned medium induces the expression of C-reactive protein in human aortic endothelial cells: Potential for paracrine/autocrine effects. *Am J Pathol*, 166(4):1265-1271, 2005.

Devaraj S, Xu D, Jialal I. C-reactive protein increases plasminogen activator inhibitor-1 expression and activity in human aortic endothelial cells: Implications for the metabolic syndrome and atherothrombosis. *Circulation*, 107(3):398-404, 2003.

Hsu R, Marangon K, Devaraj S, Jialal I. Autoantibodies to oxidized low-density lipoprotein in patients with type 2 diabetes mellitus. *Clin Chim Acta*, 317:145-150, 2002.

Venugopal SK, Devaraj S, Yuhanna I, Shaul P, Jialal I. Demonstration that C-reactive protein decreases eNOS expression and bioactivity in human aortic endothelial cells. *Circulation*, 106(12): 1439-1441, 2002.

Miller M, Jialal I. Effects of simvastatin in (40 mg and 80 mg) on highly sensitive C-reactive protein in patients with combined hyperlipidemia. *Am J Cardiol*, 89:468-469, 2002.

Jialal I, Stein D, Balis D, Grundy SM, Adams-Huet B, Devaraj S. Effect of HMG-CoA reductase inhibitor therapy on highly sensitive C-reactive protein levels. *Circulation,* 103:1933-35, 2001.

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