

A. Koneti Rao, MD, FACP, FAHA

Sol Sherry Professor of Medicine,
Co-Director of the Sol Sherry Thrombosis Research Center,
Director of Benign Hematology (Department of Medicine).
Professor of Clinical Pathology and Laboratory Medicine
Professor of Pharmacology

Lewis Katz School of Medicine at Temple University, Philadelphia, Pa, USA

Dr. Rao joined the faculty the Temple University School of Medicine in the Department of Medicine (Hematology-Oncology) and the Thrombosis Research Center in 1979. He has served in several leadership positions at TUSM – as the Associate Dean for the Temple MD-PhD program (2001-2005), Director of the Sol Sherry Thrombosis Research Center (2005-2011) and the Chief of Hematology Section (2005-2012).

With 250 original publications, editorials, invited reviews in major per-reviewed journals and text books, Dr. Rao has made major contributions in the basic and translational aspects of hemostasis, thrombosis, cardiovascular disease, diabetes mellitus and other areas. His publications have been in frontline journals including the *NEJM*, *PNAS*, *Circulation*, *Blood*, *Journal of Thrombosis and Haemostasis*, and *Thrombosis and Haemostasis*. He has been a NIH-funded researcher continuously since the early 1980's.

Dr. Rao's major research interest since 1979 has been in the area of platelets, on the molecular and genetic mechanisms of inherited platelet disorders. In the vast majority of such patients, the underlying molecular basis are unknown. Dr. Rao's studies have provided the *first* descriptions of human deficiencies in key platelet signaling proteins, including phospholipase C- β 2, GTP binding protein G α q and protein kinase C- θ . He was among the first to apply platelet expression profiling to studies into human platelet dysfunction. These studies established that transcription factor RUNX1 regulates platelet/megakaryocyte genes *MYL9*, *ALOX12*, *PRKQ*, *PF4*, *PLDN* and most recently, *PCTP* (*Circulation*, 2017), which has been linked to cardiovascular disease

Dr. Rao's other research interests are wide ranging, including in diabetes mellitus, antithrombotic therapy, sickle cell disease, and cardiopulmonary bypass. A collaborative study he spearheaded was on experimental human Rocky Mountain spotted fever. Published in the *New England Journal of Medicine*, it documented activation of platelets and coagulation in very early disease. He has served on the executive and steering committees of the multicenter NIH-funded *Thrombolysis in Myocardial Infarction (TIMI) trial*-Phase I in the 1980's, and was one the first investigators to demonstrate systemic fibrinogenolysis with administration of tissue plasminogen activator. The resulting publication (Rao et al, *JACC*) has been cited over 800 times. Dr. Rao's other studies have focused on the alterations in tissue factor and coagulation mechanisms in diabetes mellitus.

Education:

College: 1968, Hindu Colleg, Dehi University, Delhi, India

Medical School: 1973, All India Insitute of Medical Sciences, New Delhi, India.

Post Graduate Training: All in Philadelphia, Pennsylvania,

1974-75 Intern in Internal Medicine, Albert Einstein Medical Center

1975-77 Resident in Internal Medicine, Thomas Jefferson University

1977-78 Fellow in Hematology/Oncology, Temple University Health Sciences Center

1978-79 Fellow in Hematology, Cardeza Foundation for Hematologic Research, Thomas Jefferson Univ.

Positions: All at Lewis Katz School of Medicine at Temple University, Philadelphia, PA
 1980-84 Assistant Professor of Medicine and Thrombosis Research
 1984-91 Associate Professor of Medicine (with Tenure) and Thrombosis Research
 1991- Professor of Medicine; Professor of Thrombosis Research Center;
 Professor of Pharmacology
 Professor of Clinical Pathology and Laboratory Medicine
 2001-2005 Associate Dean for MD/Ph.D. Program
 2005-2013 Chief of Hematology;
 2005-2012 Director, Sol Sherry Thrombosis Research Center (2005-2009)
 2009- Sol Sherry Professor of Medicine
 2012- Co-Director, Sol Sherry Thrombosis Research Center
 2013- Director Benign Hematology, Hemostasis and Thrombosis, Department of Medicine

Awards and Honors:

1987 *Young Scientist Travel Award*, XIth International Congress ISTH, Brussels,
 1989- Founding *Principal Editor* for United States of PLATELETS (Publisher: Carfax International Publishing)
 1992-1997 *Academic Award in Vascular Diseases* (NHLBI)
 1997 *Investigator Recognition Award* for Contribution to Hemostasis, International Society for Thrombosis and Haemostasis Congress, Florence, Italy, June 1997
 2000-2005 *Member*, VA Merit Review Board (Hematology)
 2000-2005 Chairman, Platelet Physiology Subcommittee, Scientific and Standardization Committee (ISTH)
 2001 *Temple University Faculty Research Award*, May 2001
 2001- Hematology-2 Study Section (NHLBI) (Ad Hoc); NIH-NHLBI Special Emphasis Panels; HT Study Section: Since 2003, 2004, 2005, 2006, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015
 2006 *Distinguished Career Award*, South Asian Society for Atherosclerosis and Thrombosis, Bangalore, India, October 2006
 2007 *Professional Excellence Award*, Council of Indian Organizations in Greater Philadelphia
 2009 *Mario Toppo Distinguished Scientist Award* from the Association of Scientists of Indian Origin in America
 2009- *Sol Sherry Professor of Medicine*, Endowed Chair
 2010- *Contributing Faculty Member* – Faculty of 1000
 2011- *Member*, NHLBI-SMARTT Program, Scientific Review Board
 2013- F1000 Prime - *Faculty Member of the Year 2013 Award*
 2014- *Distinguished Scientist Award*, TUSM –Department of Medicine
 2014- *Associate Editor* (Hemostasis and Thrombosis), *Henry's Clinical Management by Laboratory, McPherson and Pinkus (Editors)*, 23rd Edition, Elsevier (Publishers).
 2015- Editorial Board, *Blood*
 2015-2021 Charter Member, NIH-Hemostasis Thrombosis Study Section
 2016- Guest Editor; *Platelets* (issue on Platelet Genomics)
 2017 2017 Charles Koller Memorial Lectureship, M.D Anderson Cancer Center, Houston, TX

Certifications and Memberships: Internal Medicine, (ABIM, June 1977); Hematology, June 1980;

Fellow: American College of Physicians, Society of Vascular Medicine & Biology; American Heart Association. **Member:** American Society for Clinical Investigation; Alpha Omega Alpha Honor Society; International Society of Thrombosis and Hemostasis; AAAS; American Society of Hematology; Molecular Medical Society; Inter Urban Clinical Club Founded by Sir William Osler in 1905 (served President 2004-05).