The W. Montague Cobb/NMA Health Institute
in partnership with
National Institute of Biomedical Imaging and Bioengineering
presents the Annual Cobb Lectureship and Symposium.

Biotechnology & Biomedical Research:
Tools for Quality Improvement and
Disparity Elimination in
Underserved Communities

Wednesday, July 29, 2009 • 1–3 p.m.
Room: Mandalay E
Mandalay Bay Hotel and Convention Center, Las Vegas, NV

National Medical Association
2009 Annual Convention & Scientific Assembly
About the Cobb Institute

Building on the NMA’s century-long history of advocacy on behalf of the medically underserved, the Cobb Institute strives to achieve health equity for populations of color through research and policy analysis. The vision of the Cobb Institute is to become a premier resource center for data, information and research pertaining to racial and ethnic health disparities.

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Randall C. Morgan, Jr., M.D., M.B.A., Executive Director
Sheila J. Davis, M.D., M.S., Associate Director
Nicole C. Jarrett, Ph.D., Director of Health Policy Research
Faith A. Muhlenburg Cooper, M.P.A., Project Director

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Tilli Williams, M.D., M.B.A. • Donald E. Wilson, M.D.
Greetings Colleagues and Friends,

On behalf of the W. Montague Cobb/National Medical Association Health Institute, I welcome you to the 2009 Cobb Institute Annual Symposium and the Second Annual Cobb Lectureship. This is our Fourth Annual Symposium and in the tradition of the previous symposia, we will present a comprehensive view of a cutting-edge topic to support and inform the goals of the Cobb Institute including the elimination of health disparities through research, education and informed health policy initiatives.

The W. Montague Cobb Lectureship has been established in the name of Dr. Cobb to present the views of distinguished scholars and researchers who have made outstanding contributions to science and to the health of our communities both nationally and internationally. We are both pleased and honored that Roderic I. Pettigrew, Ph.D., M.D., the first Director of the National Institute of Biomedical Imaging and Bioengineering (NIBIB) will serve as the Keynote Lecturer for the 2009 Symposium entitled: “Biotechnology & Biomedical Research: Tools for Quality Improvement and Disparity Elimination in Underserved Communities.”

Biomedical Technology is an emerging resource that will benefit all patients through a range of disciplines (physical sciences, biology, medicine, and engineering) with the goal of innovative advances in techniques for research, diagnosis, and therapy. This symposium will provide a broad overview of the role of biomedical technology in modern medicine with an emphasis on how emerging innovations might increase access to care globally, lower cost of care, and increase patient involvement. Our distinguished and internationally recognized speakers will share information from the field and lead us in an interactive panel discussion regarding effective strategies and models for utilizing biotechnology and biomedical research to eliminate healthcare disparities.

The primary mission of the Cobb Institute is to focus upon the identification of issues and the development of solutions that will reduce racial and ethnic health and healthcare disparities and improve the health of all Americans. In so doing, the Cobb Institute seeks measurable and sustainable outcomes.

Finally, this Symposium is being dedicated to the memory of our beloved William A. Matory, M.D., Emeritus Professor of Surgery at Howard University and Emeritus Director of CME for the National Medical Association. Dr. Matory was the genius who suggested that we at the Cobb Institute establish a Lectureship named for Dr. Cobb that would bring outstanding scholars to the NMA Scientific Assembly. The Cobb Institute will be forever grateful to Dr. Matory for his guidance in our organization.

We hope you will enjoy this meeting and will continue to support the work of the Cobb Institute.

Sincerely,

Randall C. Morgan Jr., M.D., M.B.A.
Executive Director
W. Montague Cobb/NMA Health Institute
The following speakers declared no relationship with commercial entities:

Mohammad N. Akhter, M.D., M.P.H.
Sheila J. Davis, M.D., M.S.
Gonzalo Domingo, Ph.D.
Nicole C. Jarrett, Ph.D.
Cato T. Laurencín, M.D., Ph.D.
Craig Lehmann, Ph.D.
Randall C. Morgan, Jr, M.D., M.B.A.
Roderic Pettigrew, Ph.D., M.D.
Dena Puskin, Sc.D.

ACKNOWLEDGEMENT

This educational activity is supported by the National Institute of Biomedical Imaging and Bioengineering at the National Institutes of Health and Genentech BioOncology.
New and improved biomedical technologies are purported to increase the safety, quality, efficiency and effectiveness of the health care system and contribute to the elimination of healthcare disparities globally. The current political climate calls for immediate reform of the healthcare system. Reform efforts, on both sides of the political aisle, call for increased use of technologies to expand access, improve quality and promote consumer self management. Now is the time to leverage advances in biomedical technologies put forth by researchers including research supported by the National Institute of Biomedical Imaging and Bioengineering (NIBIB) at the National Institutes of Health. To this end, a collaboration between NIBIB and the Cobb Institute has formed to highlight this opportunity during the coming year.

Point-of-care technologies provide evidence that biotechnology might contribute to improvements in public health and healthcare delivery and outcomes for both mainstream and medically underserved populations. According to Roderick Pettigrew, M.D., Ph.D., Director, NIBIB, “The hope is that our development of new technologies, will provide a means to investigate a wide spectrum of unanswered biological questions and problems in healthcare. This should result in an improved fundamental understanding of how disease processes arise, and how best to manage and prevent them.” (http://www.nibib.nih.gov)

We can expect that biotechnology will play a significant role in improving the quality and delivery of care, especially for minorities and other underserved populations. As the use of technology expands and care is delivered across multiple settings including virtual ones, healthcare providers must obtain the knowledge and skills necessary to coordinate care using up-to-date technologies. The W. Montague Cobb Health Institute at the National Medical Association, in partnership with NIBIB, will present the 2009 Cobb Lectureship and Symposium entitled, “Biotechnology & Biomedical Research: Tools for Quality Improvement and Disparity Elimination in Underserved Communities.” This session will discuss innovations in biotechnology and will provide a forum for scientific exchange between faculty scientists and NMA researchers interested in emerging technologies that can improve the diagnosis, management, and understanding of diseases in medically underserved populations.

Join us for an interactive discussion on cutting-edge and effective models for utilizing biomedical technologies to improve outcomes for underserved communities.
PROGRAM CHAIR
Cato T. Laurencin, M.D., Ph.D.

INTENDED AUDIENCE
This program is designed for physicians, nurses, physician assistants, residents, fellows, biomedical scientists, pharmaceutical executives, and other healthcare professionals interested in closing the gap in health and healthcare disparities.

FORMAT
Keynote lectures from leading institutions, scientists, and researchers will provide a forum for scientific exchange between faculty scientists and NMA researchers interested in emerging technologies that can improve the diagnosis, management, and understanding of diseases in medically underserved populations.

CONTINUING MEDICAL EDUCATION CREDIT
The National Medical Association is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The National Medical Association designates this educational activity for a maximum of 2 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The National Medical Association has been reviewed and approved as an Authorized Provider by the International Association for Continuing Medical Education and Training (IACET), 8405 Greensboro Drive, Suite 800, McLean, VA 22102-5120. The NMA will award 0.3 of CEUs to participants who successfully complete this program.

LEARNING OBJECTIVE
Participants will be able to discuss cutting-edge and effective models for utilizing biomedical technologies to improve health outcomes and contribute to the elimination of healthcare disparities.

OVERARCHING GOALS
To provide a broad overview of the role of biomedical technology in modern medicine with an emphasis on how emerging innovations might increase access to care globally, lower cost of care, and increase patient involvement in his/her healthcare.

Upon completion of this course participants should be able to:
• Discuss how advances in biomedical imaging and bioengineering can improve health outcomes.
• Identify opportunities to engage in biomedical research at NIBIB and other institutions
• Engage in dialogue about strategies for increasing the use of biotechnology among minority providers, researchers and patients
• Utilize promising patient-focused biomedical research that have been successful in reducing barriers to access and reducing medical errors
• Assess ongoing activities, challenges and potential opportunities in this area, including collaboration with physicians and the patients they serve.

DISCLAIMER
All speakers participating in CME activities provided by the National Medical Association Department of Continuing Medical Education are expected to disclose to the audience any real or apparent conflict(s) of interest related to the content of their presentation(s).
MOHAMMAD N. AKHTER, M.D., M.P.H.
Executive Director
National Medical Association

SHEILA J. DAVIS, M.D., M.S.
Associate Director
W. Montague Cobb/NMA Health Institute

GONZALO DOMINGO, PH.D.
Research Scientist
Center for Point-of-Care Diagnostics for Global Health,
Program for Appropriate Technology in Health (PATH)

NICOLE C. JARRETT PH.D.
Director
Health Policy Research
W. Montague Cobb/NMA Health Institute

CATO T. LAURENCIN, M.D., PH.D.
Vice President for Health Affairs
Dean of the School of Medicine
The University of Connecticut
Chair, Board of Directors Cobb/NMA Health Institute

CRAIG LEHMANN, PH.D.
Professor, Department of Clinical Laboratory Sciences
Dean, School of Health Technology and Management
Interim Executive Dean, Health Sciences Center
Stony Brook University

RANDALL C. MORGAN, M.D., M.B.A.
Executive Director
W. Montague Cobb/MBA Health Institute

RODERIC I. PETTIGREW, PH.D., M.D.
Director, National Institute of Biomedical Imaging and Bioengineering
National Institutes of Health

DENA PUSKIN, SC.D.
Director
Office for the Advancement of Telehealth (OAT)
Health Resources and Services Administration,
US Dept of Health and Human Services
WELCOME & OVERVIEW
1:00 PM  Greetings & Overview
Randall C. Morgan, M.D., M.B.A.
Executive Director
W. Montague Cobb/NMA Health Institute
Washington, DC

Opening Remarks
Mohammad N. Akhter, M.D., M.P.H.
Executive Director
National Medical Association
Washington, DC

Introduction of the Speaker/Setting the Stage
Cato T. Laurencin, M.D., Ph.D. (Chair/Moderator)
Vice President for Health Affairs
Dean of the School of Medicine
The University of Connecticut
Chair, Board of Directors
Cobb/NMA Health Institute
Farmington, CT

1:15 PM  Keynote Lecture: Emerging Biotechnology Approaches in
Addressing Global Health Inequities
Roderic I. Pettigrew, Ph.D., M.D.
Director
National Institute of Biomedical Imaging and Bioengineering
National Institutes of Health
Bethesda, MD

- Define point-of-care systems
- Identify biomedical technology advances that have enabled such systems.
- Explain how point-of-care systems can improve access to health care in underserved communities.
- Understand how information technology can enable point-of-care systems to improve the delivery of modern healthcare across economic and geographic borders.
- Progress, challenges, and funding opportunities in biomedical research

Q & A Open Discussion

1:40 PM  Point-of-Care Technologies in Low Resource Settings for
Improving Health Disparities:
Gonzalo Domingo, Ph.D.
Research Scientist
Center for Point-of-Care Diagnostics for Global Health
Program for Appropriate Technology in Health (PATH)
Seattle, WA
2:00 PM  E-Health/Home Based Technologies Focused on Wellness & Monitoring Chronic Illness
Craig Lehman, Ph.D.
Professor, Department of Clinical Laboratory Sciences
Dean, School of Health Technology and Management
Interim Executive Dean, Health Sciences Center
Stony Brook University
Brooklyn, NY

2:20 PM  Electronic Health Records and Telehealth Services to Improve Access in Medically Underserved Communities
Dena Puskin, Sc.D.
Director
Office for the Advancement of Telehealth (OAT)
Health Resources and Services Administration
U.S. Dept. of Health and Human Services
Rockville, MD

2:40 PM  Panel Discussion—Q & A
Moderator: Cato T. Laurencin, M.D., Ph.D.

3:00 PM  Closing Remarks/Next Steps
Sheila J. Davis, M.D., M.S.
Associate Director
W. Montague Cobb/NMA Health Institute
Los Angeles, CA

Nicole C. Jarrett, Ph.D.
Director, Health Policy Research
W. Montague Cobb/NMA Health Institute
Washington, DC
EMERGING BIOTECHNOLOGY APPROACHES IN ADDRESSING GLOBAL HEALTH INEQUITIES
Roderic I. Pettigrew, Ph.D., M.D.

Despite many dramatic advances in medicine over recent decades, disparities in global health outcomes among underserved populations remain a major challenge. Emerging developments on several biomedical technology fronts and a growing focus on early and individualized diagnostics and therapeutics at the point-of-care could help address these inequities. Advances in nanotechnology and microfluidics have enabled the development of practical hand-held biosensors which, based on molecular or genetic markers of disease, allow immediate diagnoses to be made. Such systems can be less expensive than traditional approaches and promise to improve global access to modern healthcare technology. Point of care devices, particularly those designed to operate in low resource settings, can be used across geographic and economic boundaries. In addition, eHealth technologies and bioinformatics will greatly assist both the healthcare practitioner and the patient by providing in-home wellness monitoring, a complete history of the patient’s state of health, and a means of ongoing assessment of chronic illness. A longer range goal is to improve our understanding of the cellular, molecular and genetic mechanisms that underlie disease and thereby advance preventive medicine. In sum, these technologies can play a pivotal role in addressing health inequities, in cost containment, and in improving global healthcare outcomes.

Upon completion, audience should be able to:
• Define point-of-care systems.
• Identify biomedical technology advances that have enabled such systems.
• Explain how point-of-care systems can improve access to healthcare in underserved communities.
• Understand how information technology can enable point-of-care systems to improve the delivery of modern healthcare across economic and geographic borders.

POINT-OF-CARE TECHNOLOGIES IN LOW RESOURCE SETTINGS FOR IMPROVING HEALTH DISPARITIES
Gonzalo Domingo, Ph.D.

Recent advances in biomedical research and bioengineering offer exciting opportunities to address a growing need for increased access to diagnostic testing in low resource settings. Successful translation of these opportunities into appropriate products and technology solutions requires an integrated and multidisciplinary approach to development of diagnostic tests, starting from, and ending at, the patient in the low resource settings. We will present challenges and opportunities for developing point-of-care tests to meet the diagnostic needs of health care in low resource settings.
E-HEALTH/HOME-BASED TECHNOLOGIES FOCUSED ON WELLNESS & MONITORING CHRONIC ILLNESS
Craig Lehmann, Ph.D.

As of now the majority of disease management takes place in typical settings such as physician’s office, health clinics and/or in a patient’s home. All of which require health care providers and patients to come together for review of clinical signs and symptoms and diagnostic data. Fortunately e-health technology and point of care testing has presented a new paradigm. E-health technology monitors are small, weighing no more than a laptop computer and can offer one-touch screens and voice prompts in a variety of languages. Most monitors have the ability to measure vital signs, modify patient questions to assess symptoms, behavior and knowledge, personalize text-based advice messages/reminders sent by the healthcare provider and provide an audible chime pre-programmed by healthcare providers to remind patients to take medications, measurements or to answer questions. The comprehensive vital sign measurement capabilities include measurement of: blood pressure, blood oxygen, POCT (e.g. blood sugar, PT-INR, etc.), body weight and temperature and peak flow. Some monitors include pulse, stethoscope sounds (heart and lung) and ECG. All data is sent via the telephone or a broad band connection. The newer systems offer blue tooth connections. The more sophisticated systems offer additional features such as a camera, videophone, graph, and web functions. The digital camera allows patients to take high-resolution photos (e.g., wounds) and send them to their provider. The camera is also used to participate in scheduled, 2-way, real-time video conference calls with clinical providers.

This presentation will discuss the evolution of e-health technology over the last several years and its impact on populations with health disparities in New York and Kenya.

Objectives:
Upon completion, audience will be able to:
• Describe present e-health technology
• Describe e-health Technologies role in managing chronic disease
• List the benefits of e-health for communities with health disparities
• Describe the advantages of Bluetooth peripherals

ELECTRONIC HEALTH RECORDS AND TELEHEALTH SERVICES TO IMPROVE ACCESS IN MEDICALLY UNDERSERVED COMMUNITIES
Dena Puskin, Sc.D.

Lack of access to primary health care, let alone advanced health care services, has long plagued both urban and rural underserved communities. The use of Telehealth and other Health Information Technologies holds much promise for addressing not only this historic disparity, but the emerging issue of increasing shortages of health care personnel in the United States. Dena Puskin, Sc.D., director of the Office for the Advancement of Telehealth at the Health Resources and Services Administration, for health care services, will provide an overview of lessons learned in using these technologies over the past 20 years in underserved communities. Attendees will also learn about future trends in the field, especially the convergence of electronic health records, mobile devices, and other telecommunications and other health information technologies to improve not only access, but the quality of health care services available.
MOHAMMAD N. AKHTER, M.D., MPH
Dr. Akhter was appointed Executive Director of the National Medical Association in May of 2007. Prior to accepting the position, Dr. Akhter most recently served as professor of Community Health and Chairman of the National Public Health Advisory Committee at the Howard University College of Medicine. He was also Senior Associate Dean for Public and International Health at Howard University College of Medicine.

Dr. Akhter was Executive Director of the American Public Health Association (APHA) from 1997-2002. Under his leadership, APHA expanded continuing education programs, and adopted global health as an integral part of its mission. In addition, Dr. Akhter was instrumental in expanding APHA’s scientific base and in strengthening its advocacy role to protect the health of the American people in the 21st Century. He served as President and Chief Executive Officer of the American Council for Voluntary International Action (InterAction), the largest alliance of U.S. based international development and humanitarian non-governmental organizations.

A native of Pakistan, Dr. Akhter received his medical degree from King Edwards Medical College in Lahore, Pakistan in 1967. He received a masters in public health from Johns Hopkins University in 1973. He is board certified by the American Board of Preventive Medicine (1976).

Dr. Akhter was Commissioner of Public Health for the District of Columbia from 1991-1994. He subsequently served as a Senior Advisor to the Secretary of the U.S. Department of Health and Human Services and as a member of the United States delegation to the World Health Assembly of the World Health Organization.

Akhter’s academic appointments include working for several years as an Adjunct Professor in the Department of Global Health at George Washington University’s School of Public Health, and as a Clinical Professor in the Department of Community and Family Medicine at Georgetown University School of Medicine. He was Professor and Chairman of the Department of Public Health and Hospital Administration, College of Community Medicine in Lahore, Pakistan.

SHEILA J. DAVIS, M.D., M.S.
Dr. Davis is Associate Director of the W. Montague Cobb/NMA Health Institute. Her responsibilities include (1) management of health policy, health systems, health services, and disease prevention initiatives of the Institute such as the review and updating of NMA monographs and consensus statements on critical health issues in the African American community; (2) analysis of current legislative health policy proposals; and (3) development of plans for future research for the Institute based on needs and opportunities. Currently, she serves as Principal Investigator for a Medicare Part D study designed to increase access to prescription drug coverage in the Medicare-eligible African American population.

Previous professional experiences include her work at Summit Health Institute for Research and Education, Inc. (SHIRE) where Dr. Davis managed an Office of Minority Health grant to improve cultural competence in health care delivery settings and
a National Library of Medicine funded campaign to promote health and wellness among Montgomery County, M.D. youth in order to reduce their risk of developing type II diabetes. Dr. Davis published a study on the use of peer health educators in primary care settings while she served as a research scientist at Morgan State University.

Dr. Davis was also a member of the writing team for the 1998 Update of the Healthy People 2000 Progress Review. As a technical writing fellow at the University of Pennsylvania, she taught undergraduate engineering students the principles of technical writing. At the Quality Education for Minorities (QEM) Network, Dr. Davis co-authored an Office of Minorities Health-funded study of the Spelman College mathematics and science programs, and she designed and coordinated a National Institutes of Health-funded public health summer internship program for undergraduates.

Dr. Davis completed a B.S. degree in chemical engineering at the Massachusetts Institute of Technology. She received an M.D. degree and a Master of Science degree in bioengineering. She completed an internship in pediatrics at McGill University in Montreal, Canada.

GONZALO DOMINGO, PH.D.
Dr. Domingo leads the identification and evaluation of promising technologies that may be funded as exploratory projects. He leads the Program for Appropriate Technology in Health (PATH) laboratory activities when needed and oversees collaborations with external parties for selected projects. He also identifies opportunities to develop the projects in order to best meet the Center’s goals.

Dr. Domingo trained as a physical biochemist and later applied this knowledge to research on the molecular pathogenesis of infectious diseases afflicting developing countries. Dr. Domingo currently leads the PATH subcontract under a Grand Challenges Project (funded by the Bill & Melinda Gates Foundation and led by Dr. Paul Yager of the UW) to develop a multiplexed, microfluidics-based diagnostic for febrile illnesses.

Prior to joining PATH, Dr. Domingo was a scientific researcher at Seattle Biomedical Research Institute (SBRI) where he managed a clinical research laboratory in Tanzania for two years. His previous experience includes supervision of a clinical laboratory and teaching a molecular biology and biochemistry course for undergraduates. Dr. Domingo possesses a Ph.D. in biological chemistry as well as an MSc in biotechnology, both from the University of London.

NICOLE C. JARRETT, PH.D.
Dr. Jarrett, Ph.D. joined the W. Montague Cobb/NMA Health Institute in February 2008 as the Director of Health Policy Research. In this capacity, she oversees the development of research projects within the institute’s primary areas of focus, which include system level responses to the HIV/AIDS crisis in the African American community and culturally competency within health care systems. Prior to joining the Cobb Institute, Dr. Jarrett served as the Health Policy Director for the Baltimore
City Health Department, leading initiatives to inform policy in a variety of areas including insurance coverage, access to primary care, men’s health, criminal justice, and mental health. During her tenure, Dr. Jarrett also chaired the Commissioner’s Task Force on Adult Survivors of Childhood Sexual Abuse and served as a local Project Director for the W.K. Kellogg Foundation’s Community Voices Initiative. Dr. Jarrett earned her doctorate in public health from Johns Hopkins Bloomberg School of Public Health. Later, she completed a Post-doctoral Research Fellowship at the Center for Mental Health Services and Criminal Justice Research at Rutgers University.

Dr. Jarrett’s research interests are contextual and system level determinants of health. Her current research includes community level trauma and health, and health seeking behavior of African American men. Her previous work included studies on perceptions of discrimination in healthcare settings and racial differences in the stages and sequences of substance use among urban adolescent males.

CATO T. LAURENCIN, M.D., PH.D.
Dr. Laurencin is the Vice President for Health Affairs at the UConn Health Center and the seventh dean of the UConn School of Medicine. A nationally prominent orthopaedic surgeon, biomedical engineer, and administrator, Dr. Laurencin is the Van Dusen Endowed Chair in Academic Medicine and Distinguished Professor of Orthopaedic Surgery. Before coming to UConn, Dr. Laurencin was the Lillian T. Pratt Distinguished Professor and Chairman of Orthopaedic Surgery at the University of Virginia and was designated a University Professor by the President of UVA. Dr. Laurencin earned his undergraduate degree in chemical engineering from Princeton University and his medical degree from Harvard Medical School, where he was a Magna Cum Laude graduate. During medical school, he also earned his Ph.D. in biochemical engineering/biotechnology from the Massachusetts Institute of Technology.

Dr. Laurencin has been named to America’s Top Doctors and America’s Top Surgeons, and is a Fellow of the American Surgical Association, the American College of Surgeons, and the American Academy of Orthopaedic surgeons. Most recently he was honored by Black Enterprise Magazine in its America’s Leading Doctor’s edition.

Dr. Laurencin’s research involves tissue engineering, biomaterials science, and nanotechnology and he is an International Fellow in Biomaterials Science and Engineering and a Fellow of the American Institute for Medical and Biological Engineering. His work was recently honored by Scientific American Magazine as one of the 50 greatest achievements in science this past year. Dr. Laurencin sits on the National Science Foundation’s Advisory Committee for Engineering (ADCOM), and has served both on the National Science Board of the FDA, and the National Advisory Council for Arthritis, Musculoskeletal and Skin Diseases at NIH.

Dr. Laurencin is an elected member of the Institute of Medicine of the National Academy of Sciences.
CRAIG LEHMANN, PH.D., C (NRCC), FACB
Dr. Lehmann is the interim Executive Dean of Health Sciences Center Schools (Dentistry, Nursing, Social Welfare & Health Technology & Management), Dean of The School of Health Technology and Management and Professor of Clinical Laboratory Sciences at Stony Brook University, Health Sciences Center. During his tenure in the School of Health Technology and Management, Dr. Lehmann has held two other administrative positions; Chair of the Department of Clinical Laboratory Sciences and Associate Dean of the School of Health Technology and Management. He is a registered clinical chemist with the National Registry of Clinical Chemistry, registered Clinical Scientist with the American Society of Clinical Pathology and a Fellow in the National Academy of Clinical Biochemistry.

RANDALL C. MORGAN JR. M.D., M.B.A.
Dr. Morgan is the Executive Director of the W. Montague Cobb/National Medical Association (NMA) Health Institute. He also practices orthopedic surgery in Sarasota, Florida. Dr. Morgan served as the 95th President of the NMA from 1996-1997. He was the first board certified orthopedic surgeon to hold that position.

Dr. Morgan is a true pioneer in his profession. He practiced medicine in his hometown of Gary, Indiana for over 20 years. With the assistance of his father, Dr. Randall Morgan Sr., he founded The Orthopedic Centers of Northwestern Indiana and served as its president from 1990 to 1996. He is a Diplomate of the American Board of Orthopaedic Surgery and the American Board of Managed Care Medicine.

Dr. Morgan has been recognized for his contributions to medicine and society by several institutions. Among his many accolades are the following: He was named “Orthopedic Resident of the Year” in 1972 by Northwestern University and “Physician of the Year” by the National Medical Association, Northwest Indiana Chapter in 1986. In 2005, Dr. Morgan received the Martin Luther King Jr. Legacy Award for National Service and the Joseph Pitts Award for Community Service from the Gary Branch of the NAACP.

Dr. Morgan received his Bachelor of Arts degree in chemistry from Grinnell College and his M.D. degree from Howard University College of Medicine. He completed a residency in orthopedic surgery at Northwestern University. In 2001, Dr. Morgan received an M.B.A. degree from the University of South Florida.
RODERIC I. PETTIGREW, PH.D., M.D.
Dr. Pettigrew is the first Director of the National Institute of Biomedical Imaging and Bioengineering. Prior to his appointment, he was a Professor of Radiology Medicine (Cardiology) at Emory University, as well as Professor of Bioengineering at the Georgia Institute of Technology. He also served as Director of the Emory Center for Magnetic Resonance (MR) Research at Emory University School of Medicine in Atlanta, Georgia.

Dr. Pettigrew is known for his pioneering research at Emory University involving four-dimensional imaging of the heart using MR. He graduated cum laude with a B.S. in Physics from Morehouse College where he was a Merrill Scholar. He received an M.S. in Nuclear Science and Engineering from Rensselear Polytechnic Institute, and he received a Ph.D. in Applied Radiation Physics from the Massachusetts Institute of Technology as a Whitaker Harvard-MIT Health Sciences Scholar. Subsequently, he received an M.D. from the University Of Miami School Of Medicine in an accelerated two-year program, served an internship and residency in Internal Medicine at Emory University, and completed his residency in Nuclear Medicine at the University of California, San Diego. Dr. Pettigrew then spent a year as a Clinical Research Scientist with Picker International, the first manufacturer of MR equipment. In 1985, he joined Emory as a Robert Wood Johnson Foundation Fellow focusing in non-invasive cardiac imaging.

Dr. Pettigrew’s awards include membership in Phi Beta Kappa, the Bennie Award (Benjamin E. Mays) for Achievement, and he was named the Most Distinguished Alumnus of the University of Miami. In 1989, when the Radiological Society of North America met to celebrate its 75th (Diamond) Anniversary, Dr. Pettigrew was selected to give the keynote Eugene P. Pendergrass New Horizons Lecture. He has served as Chairman of the Diagnostic Radiology Study Section for the Center for Scientific Review at NIH, and has been elected to membership in the Institute of Medicine and fellowships in the American Heart Association, the American College of Cardiology, the American Institute for Medical and Biological Engineering, the International Society for Magnetic Resonance in Medicine, and the Biomedical Engineering Society.
DEN A S. PUSKIN, SC.D.

Dr. Puskin is the Director of the Federal Office for the Advancement of Telehealth. Prior to her current position, Dr. Puskin served as the Acting Director of the Federal Office of Rural Health Policy (ORHP). Dr. Puskin has assumed many leadership positions within and outside of government, including serving on the Board of the American Telemedicine Association. Prior to joining ORHP in 1988, Dr. Puskin was a senior analyst at Congress’s Prospective Payment Assessment Commission (predecessor to MedPAC), where she developed the model for annual updates of Medicare payment rates to hospitals and worked on numerous economic issues related to rural hospitals and specialty hospitals in the U.S. (psychiatric, rehabilitation, and chronic disease hospitals). From 1982-1984, she was employed by the Blue Cross/Blue Shield Association as a senior legislative analyst in Washington D.C. Dr. Puskin served as the Research Director at the Finger Lakes Health Systems Agency and as Assistant Professor of Community Medicine at the University of Rochester School of Medicine and Dentistry from 1977-1981.

Dr. Puskin currently chairs the Joint Working Group on Telemedicine, the Federal interagency committee coordinating the development of telemedicine initiatives across the Federal government. Dr. Puskin spends considerable time speaking at national forums and writing academic papers and reports on Telehealth and broader health care financing issues.

Dr. Puskin received her Sc.D. degree in Health Policy and Research from Johns Hopkins University, a M.S. degree in Community Medicine from the University of Rochester, School of Medicine and Dentistry, and B.A. and M.A. degrees in Biology from Boston University.
The commitment and generosity of the following institute and company will advance progress towards the elimination of racial and ethnic health disparities:

NATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING AT THE NATIONAL INSTITUTES OF HEALTH

GENENTECH BIOONCOLOGY