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Boston University
Since the 1970s, the Boston University School of Medicine's (BUSM) commitment to superior basic and clinical research has found fertile ground in multiple Centers of Excellence across various medical disciplines. Although the centers' roots reach back a half century or more, their more recent designations as centers, often with special funding from the National Institutes of Health, consolidate important resources and provide a powerful means for attracting the most promising national and international talent.

The centers, including the Whitaker Cardiovascular Institute, the Pulmonary Center, the Arthritis Center, various centers in the Department of Psychiatry, the Center of Excellence in Women’s Health, and the Mass Spectrometry Resource for Biology and Medicine, are staffed by world-renowned experts known for taking innovative avenues of investigation that often lead to groundbreaking results.

Whitaker Cardiovascular Institute: Cutting-Edge Research in Hypertension

Today, the Whitaker Cardiovascular Institute, founded by Dean Aram V. Chobanian, MD, as the Cardiovascular Institute in 1973, contains the longest-running Specialized Center of Research (SCOR) in Hypertension sponsored by the National Institutes of Health’s (NIH) Heart, Lung and Blood Institute. The center’s research impetus began, not with applause from the medical community, but with a challenge to one of the community’s beliefs. Fifty years ago, high blood pressure was widely regarded as an unfortunate medical necessity, a way to force blood through narrowed arteries. Robert Wilkins, MD, head of the Section of Cardiology in the Department of Medicine, however, saw high blood pressure as a dangerous condition that should, and could, be treated.

In 1952, Wilkins threw down the gauntlet: “No case of hypertension
with normal renal function is accepted as impossible to treat medically until so proven," he said. To take on the challenge, he formed a team that included William Hollander, MD, and Chobanian. In 1940, Reginald H. Smithwick, MD, chairman of the Department of Surgery, had performed the world's first sympathectomy, a surgical means for controlling hypertension. Wilkins's team expanded the breakthrough, developing the first medical means for controlling hypertension with the use of *rauwolfa serpentina*.

By the 1950s, the team advanced the "step-care" approach, a method that endures as the model of hypertension care a half century later. In particular, Wilkins, Hollander, and Chobanian became the first specialists to use thiazide diuretics and spironolactone, an aldosterone antagonist, for treatment of high blood pressure.

**Framingham Heart Study**

While the Whitaker Cardiovascular Institute has achieved much of its acclaim for its work in hypertension, it has also become a leader in other areas of cardiovascular health. The Framingham Heart Study, initiated in 1948 and now the longest-running epidemiological study of cardiovascular disease, is led by BUSM faculty, including Philip Wolf, MD, current principal investigator of the study and a renowned expert on stroke. One of the most important epidemiological studies in the annals of American medicine, the study has identified major risk factors associated with heart disease, and has been a primary influence in fostering new discoveries in the fields of stroke, dementia, osteoporosis, arthritis, diabetes, eye disease, and cancer, as well as the genetic patterns of many common diseases.

**Serving the underserved: Examining heart disease in African Americans**

For Joseph Loscalzo, MD, PhD, Wade Professor and Chairman in the Department of Medicine, and successor to Chobanian as director of the Whitaker Cardiovascular Institute, motivation to study heart disease among African Americans comes from a painful social observation. "In the United States, blacks are underserved in the adequacy of care and diagnosis," Loscalzo says. To narrow the gap in care, Loscalzo and his team of researchers are investigating the basic mechanisms that underlie coronary heart disease in African Americans.

"We believe that the pathophysiology of the disease may be somewhat different in African Americans than Caucasians," he says. Specifically, African Americans tend to be more salt-sensitive, leading to higher incidences of hypertension. Funded by a Specialized Center of Research (SCOR) grant from the NIH's Heart, Lung and Blood Institute, four projects are examining the issue, including one in collaboration with...
investigators at the Morehouse College School of Medicine in Atlanta.

The studies have shown a distinct relationship between sensitivity to salt and an inherited deficiency in nitric oxide, a compound that dilates blood vessels and helps prevent atherosclerosis. Loscalzo's research has also centered on glucose-6-phosphate dehydrogenase (G-6-PD) deficiency, which is found in up to 14 percent of African-American males and 4 percent of African-American females. While the deficiency, common in equatorial climates, offers a defense against malaria, it has long been associated with hemolytic anemia.

"But," Loscalzo says, "we believe G-6-PD is a critical enzyme in the protection of vascular and cardiac cells from oxidative stress," which may be associated with atherosclerosis and coronary heart disease. The institute is examining the links between G-6-PD deficiency and inactivation of vascular nitric oxide.

"Our clinical goal is to restore bioactive nitric oxide levels by limiting its oxidation," Loscalzo says.

Studying hypertension's genetic basis

When Chobanian assumed the Deanship in 1988, Haralambos Gavras, MD, became the leader of the Hypertension Section, and in 1995, the director and principal investigator of the NIH-funded Hypertension SCOR. In 1977, Gavras and his associates introduced the first angiotensin converting enzyme (ACE) inhibitor investigated at BUSM, captopril, and were the first to use ACE inhibitors to treat hypertension and congestive heart failures. Later, Chobanian first showed the ACE inhibitors reduced the development of atherosclerosis.

Since 1996, Gavras has led the center's investigation into the molecular genetics of hypertension. Among the projects included in the SCOR is a study of the genetic history of more than 2,500 subjects from hundreds of families, gathering clinical and biochemical data along with a DNA sample from each one. The purpose is to seek out genetic mutations and try to correlate them with high blood pressure and other hereditary traits. Participants are subgrouped according to common characteristics, and various subsets are submitted to further genetic analysis, including testing of chromosomal regions linked to hypertension by microsatellite markers and precise DNA mapping.

In what Gavras describes as a "team effort involving a lot of excellent scientists," a supporting project uses microarray technology to identify genes involved in hypertension.

To date, investigators have published data linking chromosomes 17 and 18 to high blood pressure, and continue collaborations with mouse geneticists from Jackson Laboratories, who are pioneers in genomic applications. "Together we can identify the key genes in mice, then look for them in humans," Gavras says.

Leading heart disease research

As part of the Cardiovascular Center's mission, a strong team of physician scientists explores the surgical and medical aspects of patients with coronary heart disease.

Wilson S. Colucci, MD, professor of medicine and research professor of physiology and biophysics, chief
of Cardiovascular Medicine, and director of the Cardiomyopathy Program, leads a multidisciplinary research team in developing novel therapies for heart failure. His research focuses on the molecular and cellular mechanisms that lead to remodeling and failure of the myocardium. A major interest is the role of oxidative stress in mediating both the growth of cardiac myocytes and their death by apoptosis. Recently, his team demonstrated that mechanical deformation and catecholamines regulate growth and apoptosis in cardiac myocytes, and that reactive oxygen species play a central role in both responses. Parallel studies are being performed in vitro and in vivo, using cultured cardiac myocytes and genetically modified mice, respectively.

Thomas J. Ryan, MD, professor of medicine, senior consultant in cardiology, and past president of the American Heart Association, and his colleagues have made seminal contributions to the understanding of ventricular function in valvular heart disease. In addition, he has led a number of national clinical trials on the treatment of coronary heart disease using surgery or medications.

Director of the Cardiac Catheterization Laboratory, Alice Jacobs, MD, professor of medicine, is principal investigator of several multi-center trials studying the effectiveness of angioplasty and the treatment of cardiovascular disease in women. She was one of the first to report on the physiologic consequences of retrograde coronary sinus perfusion and demonstrated its potential benefits in patients with obstructive coronary artery disease.

Richard J. Shemin, MD, professor and chairman of Cardiothoracic Surgery, and Harold Lazar, MD, professor of cardiothoracic surgery, back up the team with new therapeutic approaches to deal with coronary artery disease and reduce the degree of heart muscle injury in patients with coronary disease.

The Pulmonary Center: Tuberculosis and Beyond

When anti-TB drugs became widely available in the 1960s and the nation’s sanatoria closed, many pulmonary research labs followed suit. Bucking the tide, Gordon L. Snider, MD, professor of medicine, maintained his dedication to pulmonary medicine and became one of the first researchers to probe the diseases that came in the wake of World War II and rising levels of tobacco use: emphysema and pulmonary fibrosis. With joint appointments at the Boston VA Medical Center and BUMC, Snider pioneered research in smoking-related diseases, and in the 1970s brought Jerome Brody, MD, and David Center, MD, to the newly formed Pulmonary Center at BUSM.

Brody, a professor of medicine, succeeded Snider as director of the center, an institute dedicated to exploring basic aspects of pulmonary disease and to the education and training of pre-doctoral and doctoral students, and pulmonary fellows.

“What began as a small operation in the seventies,” Brody says, “has grown over the past fifteen years and more to a research center that attracts $10 to 12 million a year in extramural support.” The Pulmonary Center occupies approximately 16,000 square feet of research space and involves thirty-five faculty and approximately thirty MD and PhD trainees.

Brody’s own areas of research involve fetal and perinatal lung development (a study funded by an NIH program project grant), and an investigation of the cellular mechanisms that control the proliferation of lung cells and the loss of that control in cancer. The latter study involves the emerging field of analysis of gene expression and bioinformatics.

“We want to understand the genetic
determinants that trigger emphysema and lung cancer in smokers,” says Brody. “And we’re looking at the connection to lung cancer in nonsmokers, especially women.”

**New approaches to controlling asthma**

Among those furthering Snider’s investigations is David Center, MD, chief of Pulmonary and Critical Care Medicine, director of the Allergy, Asthma, and Immunology Research Center (AAIRC), and the first recipient of the Gordon and Ruth Snider Professorship in Pulmonary Medicine (Dean’s Report, Spring 2001). The AAIRC, which is funded by grants from the NIH’s Institute of Allergy and Infectious Diseases, “uses animal models of asthma to identify mechanisms of the disease and to explore potential therapies,” says Center, who is also a professor of medicine and research professor of biochemistry.

Six faculty members with two or three supporting fellows are currently involved in this work. A very promising study is the examination of Interleukin-16, (II-16), a protein excreted by the epithelium that may play an important role in the suppression of asthma. “Asthma is a common disease,” Center says, “but in the vast majority of the cases, the disease doesn’t progress. We want to understand why, and how we can control inflammation and the asthmatic response.”

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**Center of Excellence in Women’s Health**

**Aiming for Better Care of the Underserved**

For many poor and minority women, the suffering that often accompanies illness is usually compounded by frustration because of a lack of necessary health resources. “The traditional form of care for women is fragmented into multiple disciplines — obstetrics, gynecology, psychiatry, oncology, etc.—making it difficult to coordinate care,” says Karen Freund, MD, MPH, and director of the Boston University Center of Excellence in Women’s Health.

One of only fifteen academic Centers of Excellence in women’s health designated by the Department of Health and Human Services, the center is funded to become a model of exceptional care for other academic and non-academic institutions to follow.

The center’s goal is to address clinical care, medical education, research, community outreach, and faculty development in a way that integrates care for traditionally underserved populations: low-income women, recent immigrants, refugees, women with low proficiency in English, and victims of domestic violence.

“Our goal is to eliminate the fragmentation, to deliver care where women are,” says Freund. For example, the center has found that when women receive OB/GYN and mental health care in the same offices where they meet their primary care physicians, adherence to therapy and the overall quality of care improves. “We’ve demonstrated that if you have a primary care physician coordinating care, the groups that benefit the most are minority and low-income women,” Freund says.

The center recently received a $460,000 grant from the Avon Foundation to improve breast care to underserved populations.
In animal and human population studies, Center and his colleagues, William Cruikshank, PhD, associate professor of medicine, and George O'Connor, MD, associate professor of medicine, respectively, are examining the genetic roots of IL-16 expression. “In addition, we’re studying potential mutations in genes linked to IL-16 that might prevent the protein’s synthesis and exacerbate asthma symptoms,” Center says. This genetic data may be able to help physicians identify asthma patients by level of potential severity, and could lead to the development of IL-16 derivatives that may be valuable as therapy.

Exploring IL-16 for AIDS treatment
Hardy Kornfeld, MD, professor of medicine and professor of pathology and laboratory medicine, has expanded his collaboration with Center and Cruikshank, carrying IL-16 into another clinical arena: HIV. “IL-16 is a natural ligand for molecular CD4,” Kornfeld says. In AIDS, destruction of CD4 T-cells— in many patients, at an average rate of 10⁷ a day — is largely responsible for the destructive consequences of the disease. In conjunction with other interleukins, Kornfeld says, “IL-16 may be used to stimulate the growth of CD4-positive T-cells in AIDS patients, helping them reconstitute a healthy immune response.”

In work that reflects the Pulmonary Center’s earliest roots, Kornfeld is also pursuing promising research into the innate immune system response to tuberculosis (TB). “One of the key factors in TB,” Kornfeld says, “is the bacteria’s evolved ability to survive and grow in alveolar macrophages, which are the immune cells responsible for ‘patrolling’ the lung for foreign matter.” In a 1997 paper, Kornfeld and his colleagues, including Joseph Keane, MD, assistant professor of medicine, produced evidence that alveolar macrophages may be responding to infection to TB by undergoing programmed cell death, or apoptosis. While apoptosis had been demonstrated to be a response to viral infection, Kornfeld says that “no one had carried this insight to TB before.”

The discovery has important clinical implications. The body’s alternative defense to TB, the adaptive or antigen-specific immune response, recruits lymphocytes to attack the invading bacteria — but at a great cost to the host, resulting in the symptoms associated with the disease: fever, weight loss, and gradual destruction of the lung.

“We’re proposing a new model we’re now testing,” says Kornfeld. “The more effective the innate response — macrophage apoptosis — the more limited the growth of TB, presenting the adaptive, antigen-specific response with fewer targets and resulting, therefore, in less damage.”

Kornfeld’s follow-up paper, published in 2000, supported this theory. “We showed that more virulent strains of TB are able to avoid causing apoptosis of host macrophages,” Kornfeld says. “It’s consistent with our model of TB in which bacteria that stimulate apoptosis are less virulent, and ones that do not are more virulent.”

Understanding the roots of fibrosis
“Study and treat idiopathic pulmonary fibrosis,” says Ronald Goldstein, MD, professor of medicine, “a very serious disease with a five-year survival rate of only 50 percent.” As director of the Pathobiology of Fibrotic Lung Disease SCOR, Goldstein oversees a number of studies probing the molecular mechanisms for pulmonary fibrosis.

Goldstein’s own research focuses on the fibroblasts themselves, specifically how and why these normally quiescent cells become activated to construct fibrotic matrix or scarring. In particular, Goldstein has been examining a fibrotic model, developed at BUSM, based on bleomycin, an antitumor agent used in cancer therapy.
"We think that the activation of phosphatidylinositol-3 kinase (PI3K) enzyme increases type-1 collagen gene expression," says Goldstein. "We know that when we inhibit PI3K, the expression of type-1 collagen mRNA and the myofibroblast phenotype is attenuated, possibly suppressing the activation of bleomycin fibrosis." Clinically, the research suggests that selective inhibitors may be able to control fibrosis.

**Multipurpose Arthritis Center Adds Education and Outreach**

At the Multipurpose Arthritis Center, Joseph H. Korn, MD, professor of medicine and director of the Section of Rheumatology and The Arthritis Center, has been applying a similar interest in fibroblasts to scleroderma, a potentially lethal disease that creates scarring in the lungs, skin, and intestines. Korn's research examines the metabolism and molecular abnormalities in fibroblast cells. "As we are able to define and identify genes related to fibroblast development," says Korn, "we can define pathways that are abnormally regulated and target them for therapy."

Although the center has one of the largest scleroderma clinical programs in the world, it is just one part of the center's multilevel mission in research, patient and provider education, and community health projects. The center's roots reach back to 1959, when Alan Cohen, MD '52, discovered the first of ultimately fifteen fibrillar proteins associated with amyloid disease. Boston University Medical Center's (BUMC) leadership in amyloid research continues under Martha M. Skinner, MD, a colleague of Cohen and director of the Amyloid Treatment and Research Program. In the spring of 2000, the program received a major gift of $3 million from the Gerry Foundation, a private foundation that supports amyloid research and education.

When the NIH phased out its original arthritis center grants, the BUMC program again competed successfully for a successor grant for a "multidisciplinary clinical research center" under the guidance of David T. Felson, MD, an expert in epidemiology and outcomes research in arthritis. According to Korn, Felson's work "looks at appropriate ways to design, conduct, and evaluate the results of clinical trials" related to arthritis research.

In addition to work evaluating treatments of arthritis, Felson, professor of medicine and of epidemiology and biostatistics, is an expert on the epidemiology of musculoskeletal diseases. To identify specific activities, genetic or nutritional risk factors that might be modified to prevent disease or its impact, his research includes the Framingham Heart Study, a community-based group in Beijing, and a group with knee osteoarthritis in Boston. The team's work also focuses on prevention of permanent work disability, a serious and unfortunately common consequence of arthritis.

Other investigators at the Multipurpose Arthritis Center, including Tim McAlindon, MD, associate professor of medicine, have developed the capability of performing clinical research projects with subjects entirely over the Internet. "We’re successful because we take advantage of sophisticated methodologies, such as the Internet and epidemiological tools, and apply them creatively to musculoskeletal disease problems," said Felson. "We focus on the personal impact of disease and on disease prevention, along with treatment, in an effort to prevent work disability, pain, and other problems associated with arthritis."

**NIH Funds Innovative Division of Psychiatry Programs**

Domenic A. Ciraulo, MD, chairman of the Division of Psychiatry, has thrust himself into the center of the debate regarding addiction therapy. "Researchers want to know if treatment requires intensive psychotherapy, or if patients would..."
do just as well with support and medications alone,” he says. Looking for an answer, Ciraulo, principal investigator of a multimillion-dollar grant from the NIH’s National Institute on Alcohol Abuse and Alcoholism (NIAAA), is applying a mixed treatment plan of behavioral/psychosocial treatments and medication. In work that involves the talents of psychiatrists, psychologists, counselors, social workers, statisticians, and pharmacologists, the group is evaluating nine different combinations of therapy for addicted patients. “We’re looking for both the best synergy,” says Ciraulo, “and the most cost-effective approach.” The medications used in the study are naltrexone and acamprosate.

**Addressing those triply diagnosed with HIV, PTSD, and substance abuse**

Conducting the first study of its kind, Terence Keane, PhD, professor and vice chair of Research in Psychiatry, and director of the National Center for Post-Traumatic Stress Disorder (PTSD), is developing a treatment program for people who are triply diagnosed with HIV, PTSD, and substance abuse. Keane notes that “approximately 30 to 50 percent of the HIV patients at Boston Medical Center have problems of this nature.”

The goal, Keane says, “is to improve adherence to antiviral medications for HIV through treatment of PTSD symptoms and substance abuse.” For what Keane describes as a “fragile population,” the study has devised an adherence enhancement treatment. The program, based at the Boston VA Medical Center, involves thirty-nine employees under the guidance of Keane and deputy director Danny Kaloupek, PhD, in addition to investigators Deborah Brief, PhD, and Andreas Bollinger, PhD. “We’re helping people who are taking medications adhere to a responsible and reasonable lifestyle,” says Keane.

**Mass Spectrometry Center: The Researcher’s Researcher**

Six years ago, the Mass Spectrometry Resource for Biology and Medicine was established at BUSM, with funding from the NIH National Center for Research Resources, to take up and expand the role that the Massachusetts Institute of Technology MS Resource had developed during the three decades from 1966 to 1995. This center provides expertise to scientists at institutions around the world and analyzes samples from inside and outside Boston University. Its mission, says director Catherine Costello, PhD, who moved the project from MIT to BUSM, “is to develop mass spectrometry methods for the structural determination of biopolymers and to apply these advanced methods to collaborative projects.”

One such collaboration has been with BUMC’s Amyloid Center, directed by Martha Skinner, MD. “We are determining amino acid sequences in post-translational modification of proteins that are implicated in amyloid diseases,” says Costello. “These sequences assist both in the diagnosis of individual patients and in the long-term understanding of the phenomenon underlying the disease.”

To date, the center has identified at least seven previously unreported mutations related to transthyretin, the protein associated with familial amyloid disease. Other areas of emphasis include glycobiology (the study of carbohydrates and carbohydrate compounds) and proteomics, the analysis of proteins expressed by genes. Costello’s work is supported by two assistant professors, Joseph Zaia, PhD, and Peter O’Connor, PhD, and seven post-doctoral fellows, including Amareth Lim, PhD, who has responsibility for the amyloid protein studies.
A Gateway to New Challenges

Families and friends cheered in celebration as Boston University School of Medicine students received their diplomas on May 20 during an afternoon ceremony at the World Trade Center in Boston. Describing the Class of 2001 as "gifted individuals who are among the best and brightest in the country," Dean Aram V. Chobanian, MD, provost of the medical campus, praised the graduates for their dedication to community service, and urged them to continue to meet the needs of the less fortunate. "Although we have appreciated greatly your intellectual abilities, we are particularly gratified that you have a good heart as well as a good head," he said.

Commencement speaker Anamaria Bulatovic, MD, president of the U.S. branch of Doctors Without Borders, a worldwide humanitarian organization and recipient of the 1999 Nobel Peace Prize, wished the graduates the courage and strength to confront barriers they would face in both life and work. "The complexity of providing human medical relief illustrates that humanitarianism, however well-intended, is not and cannot be a solution to the problem," Bulatovic said.

A special resolution of Boston University’s Board of Trustees was presented to Bulatovic on behalf of Doctors Without Borders at the University’s 128th Commencement, held the morning of May 20 at Nickerson Field.
Doctor of Medicine  
With Honors and  
Residency Appointments  

SUMMA CUM LAUDE  
Amit Dave Bhrany  
University of Washington  
Program  
Otolaryngology  
Seattle, WA  

Keith Wayne Vahe Johnson  
University of Southern California Program  
Orthopaedic Surgery  
Los Angeles, CA  

Aditi Kinkhabwala  
Boston University  
Medical Center Program  
Internal Medicine  
Boston, MA  

MAGNA CUM LAUDE  
Christopher Michael Andreoli  
BA/MD Degree  
Massachusetts Eye and Ear Infirmary  
Ophthalmology  
Boston, MA  

Yu Liu  
MD/PhD Degree  
Massachusetts General Hospital Program  
Internal Medicine  
Boston, MA  

Jason Raymond Ouellette  
Yale-New Haven Medical Center Program  
Internal Medicine  
New Haven, CT  

Ann Leslie Pinto  
Lahey Clinic Program  
Internal Medicine  
Burlington, MA  

Eric Lawrence Putnoi  
Boston University  
Medical Center Program  
Ophthalmology  
Boston, MA  

Michael Jason Richard  
University of North Carolina Hospitals Program  
Ophthalmology  
Chapel Hill, NC  

Scott Leigh Shofer  
Stanford University Program  
Internal Medicine  
Stanford, CA  

Kenneth Joseph Galeckas  
Naval Medical Center  
Transitional  
Portsmouth, VA  

Carrie Lilynn Tong  
BA/MD Degree  
Mount Sinai School of Medicine Program  
Diagnostic Radiology  
New York, NY  

Kevin Matthew Woods  
Walter Reed Army Medical Center  
Internal Medicine  
Washington, DC  

DOCTOR OF MEDICINE  
Degrees and Residency Appointments  

MD/PHD DEGREES  
Gerald Patrick Bailey  
Brigham and Women's Hospital Program  
Pathology  
Boston, MA  

Elisabeth Marie Battinelli  
Boston University  
Medical Center Program  
Internal Medicine  
Boston, MA  

William Linneaus Burch  
Internship Deferred  

Amr Kamal El Jack  
University of Pennsylvania Program  
Diagnostic Radiology  
Philadelphia, PA  

Daniel Peter Gaposchkin  
Lahey Clinic Program  
Internal Medicine  
Burlington, MA  

Dong Wook Kim  
Vanderbilt University Program  
Radiation Oncology  
Nashville, TN  

Autumn Marie Klein  
Massachusetts General Hospital Program  
Neurology  
Boston, MA  

Garriek Chi-Lih Lau  
University of California (Davis) Program  
Anesthesiology  
Sacramento, CA  

BA/MD DEGREES  
Naseem Abbas Amin  
New York University  
Medical Center Program  
Pediatrics  
New York, NY  

Philip Alexander Cohen  
Boston University  
Medical Center Program  
General Surgery  
Boston, MA  

Prajay Dhir  
Boston University  
Medical Center Program  
Ophthalmology  
Boston, MA  

Denise W. Gee  
Boston University  
Medical Center Program  
General Surgery  
Boston, MA  

Brett Ivan Greenberger  
University of Maryland/Sheppard and Enoch Pratt Hospital Program  
Psychiatry  
Baltimore, MD  

Andrew Bremer looks on during the ceremony.
Reepa Suresh Kadakia
George Washington University Program Obstetrics/Gynecology Washington, DC

Anand Emmanuel Kakkanatt
Albert Einstein College of Medicine at Long Island Jewish Medical Center Program Diagnostic Radiology New Hyde Park, NY

Rajesh N. Keswani
Stanford University Program Internal Medicine Stanford, CA

Laura Sook Kim
UMDNJ-Robert Wood Johnson Medical School Program Obstetrics/Gynecology Piscataway, NJ

Cassandra Alda Lee
Wake Forest University School of Medicine Program Orthopaedic Surgery Winston-Salem, NC

Rajesh Mittal
Brooklyn Hospital Center Program Emergency Medicine Brooklyn, NY

Richard Wonsub Moon
University of Southern California Program Internal Medicine Los Angeles, CA

Phyllis Hsiao-Fan Peng
State University of New York-Brooklyn/Long Island Otolaryngology Brooklyn, NY

Vanessa Nina Porudominsky
St. Barnabas Medical Center Program Obstetrics/Gynecology Livingston, NJ

Rishi Paul Singh
Massachusetts Eye and Ear Infirmary Ophthalmology Boston, MA

Teddy J. Su
Brigham and Women's Hospital Radiology Boston, MA

Krishna Thavarajah
Boston University Medical Center Program Internal Medicine Boston, MA

MD DEGREES
Carl Dain Allred
University of Rochester Program-Strong Memorial Hospital Orthopaedic Surgery Rochester, NY

Caroline Stacey Alpert
Lahey Clinic Program Internal Medicine Burlington, MA

Rahul Singh Anand
Boston University Medical Center Program Medicine Boston, MA

Jennifer Lynne Anderson
University of Massachusetts Program Pediatrics Worcester, MA

Anna Fatima Fontes Andrade
University of Massachusetts Program General Surgery Worcester, MA

Diana Tej Atwal
Los Angeles County-Harbor-UCLA Medical Center Program Family Practice Torrance, CA

Richard Vatche Balikian
Albert Einstein College of Medicine Otolaryngology New York, NY

Colin MacLeod Barker
Vanderbilt University Program Internal Medicine Nashville, TN

Jessica Dembitz Berman
Albany Medical Center Program Family Practice Albany, NY

Tamara Lee Bihuniak
Medical College of Pennsylvania-Hahnemann University Program Emergency Medicine Philadelphia, PA

Aaron Baruch Bloomenthal
University of Massachusetts Program General Surgery Worcester, MA

Edward Slocum Brewer
Naval Medical Center Transitional Portsmouth, VA

Lori A. Brightman
Brigham and Women's Hospital Program Anesthesiology Boston, MA

Mark Francis Brodie
Naval Medical Center General Surgery San Diego, CA

John Paul Brusky
Southern California Kaiser Permanente Medical Care Program Urology Los Angeles, CA

Paul A. Cabral
University of Rochester (Strong Memorial Hospital)/Highland Hospital of Rochester Program Family Practice Rochester, NY

Grace C. Chang
Massachusetts General Hospital Program Anesthesiology Boston, MA

Agnes Huang Chen
Los Angeles County-Harbor-UCLA Medical Center Program Pediatrics Torrance, CA

David Wei-Chan Chien
Los Angeles County-Harbor-UCLA Medical Center Program Pediatrics Torrance, CA

Pearl E. Christie
Naval Medical Center Family Practice Jacksonville, FL

Aleksander Chudovsky
SUNY at Buffalo Graduate Medical-Dental Education Consortium Urology Buffalo, NY

Nathaniel Kim Clark
Boston University Medical Center Program Psychiatry Boston, MA

Nathan Knight Cobb
Beth Israel Deaconess Medical Center Program Internal Medicine Boston, MA

Margaret Gill Craig
University of Texas Southwestern Medical School Program Anesthesiology Dallas, TX

Students listen in and follow along during Commencement.
Kelly Jean Crotty  
New York University Medical Center Program  
Internal Medicine  
New York, NY

Barry Joel Cukor  
Tulane University Program  
Internal Medicine  
New Orleans, LA

Anthony Michael DeLuise, Jr.  
Boston University Medical Center Program  
Orthopaedic Surgery  
Boston, MA

Mahnee Dinsmore  
York Hospital Program  
Obstetrics/Gynecology  
York, PA

Sarah Eipe  
VA Greater Los Angeles/UCLA-San Fernando Valley Program  
Internal Medicine  
Sylmar, CA

Laura Jean Eliseo  
Boston University Medical Center Program  
Emergency Medicine  
Boston, MA

Harry T. Enderlin  
Duke University Program  
Psychiatry  
Durham, NC

Steven Adam Finkel  
New York Presbyterian Hospital-Cornell Campus Program  
Anesthesiology  
New York, NY

Kim Camille Florence  
Albert Einstein Medical Center Program  
Obstetrics/Gynecology  
Philadelphia, PA

Ann Marie Ocampo Francisco  
Match results withheld

Tracy Lee Garza Polanco  
Scripps Memorial Hospital Program  
Family Practice  
Chula Vista, CA

Navneet Kaur Gogia  
Kaiser Permanente Medical Group  
(Northern California/San Francisco) Program  
Obstetrics/Gynecology  
San Francisco, CA

Julie Elizabeth Goodwin  
Georgetown University Program  
Pediatrics  
Washington, DC

Limor Graham  
Brigham and Women’s Hospital Program  
Pathology  
Boston, MA

Thomas L. Huang  
Boston University Medical Center Program  
Diagnostic Radiology  
Boston, MA

Patricia Elizabeth Hume  
Internship Deferred

Christian Joseph Ingui  
Boston University Medical Center/Brockton Hospital Program  
Transitional Brocton, MA

Ernest James III  
Louisiana State University (Kenner) Program  
Family Practice  
New Orleans, LA

Sunny Sung Hee Jun  
Stanford University Program  
Obstetrics/Gynecology  
Stanford, CA

Raffi Karagopian  
University of Southern California Program  
Internal Medicine  
Los Angeles, CA

Jennifer Cindy Kaufman  
Boston University Medical Center Program  
Internal Medicine  
Boston, MA

Darren Bond Keller  
Naval Medical Center  
Internal Medicine  
San Diego, CA

Michelle Kelly  
St. Christopher's Hospital for Children Program  
Pediatrics  
Philadelphia, PA

Tina-Ann Cecelia Kerr  
Emory University Program  
Family Practice  
Atlanta, GA

Katherine Joowon Kim  
University of California (San Diego) Program  
Dermatology  
San Diego, CA

David Gregory Kornguth  
University of Texas M.D. Anderson Cancer Center Program  
Radiation Oncology  
Houston, TX

Linda Wang Kornguth  
University of Texas at Houston Program  
Emergency Medicine  
Houston, TX

Abdul Soudan is all smiles as he awaits his hooding by Suzanne Sarfaty, MD, assistant dean for Student Affairs, and assistant professor of medicine.

Clayton Gray Lane  
UMDNJ-Robert Wood Johnson Medical School Program  
Orthopaedic Surgery  
Piscataway, NJ

John Bracken Latimer  
University of Massachusetts Program  
Family Practice  
Worcester, MA

Roxanne Protasovicki Latimer  
University of Massachusetts Program  
Obstetrics/Gynecology  
Worcester, MA

Francis Wing-Kit Lau  
Brigham and Women's Hospital Program  
Anesthesiology  
Boston, MA

Kuenok Lee  
University of Illinois College of Medicine at Chicago Program  
Internal Medicine  
Chicago, IL
Todd Jerry Lehrfeld  
University of Maryland  
Urology  
Baltimore, MD

Paul Michael MacDonald  
University of Michigan  
Program  
Anesthesiology  
Ann Arbor, MI

Matthew John Madden  
Loma Linda University  
Program  
Emergency Medicine  
Loma Linda, CA

Richard Thomas Marino, Jr.  
Maine Medical Center  
Program  
Family Practice  
Portland, ME

Maureen Margaret Mathews  
Massachusetts General  
Hospital Program  
Pediatrics  
Boston, MA

Stephen Armond Mayer  
Beth Israel Deaconess Medical Center  
Program  
Anesthesiology  
Boston, MA

Arshad Mushtaq Mian  
Internship Deferred

James John Mooney  
University of Massachusetts  
Program  
Anesthesiology  
Worcester, MA

James Ali Nassiri  
UCLA Medical Center  
Program  
Surgery  
Los Angeles, CA

Darren D. Naugles  
Howard University Program  
Emergency Medicine  
Washington, DC

Michael Edward Nurenberg  
University of Texas Southwestern Medical School Program  
Internal Medicine  
Dallas, TX

Teresa Min-Jung O  
Boston University Medical Center Program  
Internal Medicine  
Boston, MA

Richard James Oeser  
Massachusetts General Hospital Program  
Anesthesiology  
Boston, MA

Terence Joseph O'Loughlin  
Internship Deferred

Dennis Michael O'Neil  
Boston University Medical Center Program  
Psychiatry  
Boston, MA

Isabel Frances Pedraza  
UCLA Medical Center Program  
Internal Medicine  
Los Angeles, CA

Thomas D. Person  
Oregon Health Sciences University Program  
General Surgery  
Portland, OR

Karran Alexandra Phillips  
Yale-New Haven Medical Center (Waterbury) Program  
Internal Medicine  
New Haven, CT

David Matthew Platt  
Cedars-Sinai Medical Center Program  
Internal Medicine  
Los Angeles, CA

Amisha Kishore Ramjiyan  
Alton Ochsner Medical Foundation Program  
Diagnostic Radiology  
New Orleans, LA

Usman Chuahry Ramjian  
Brown University Program  
Internal Medicine  
Providence, RI

Mark Frederick Riederer  
Children's Hospital Medical Center/University of Cincinnati College of Medicine Program  
Pediatrics  
Cincinnati, OH

David Henry Rosenstein  
University of Nevada (Las Vegas) Program  
Internal Medicine  
Las Vegas, NV

Neema Shakibai  
New York University Medical Center Program  
Internal Medicine  
New York, NY

Sheena Sharma  
Boston University Medical Center Program  
Internal Medicine (Primary Care)  
Boston, MA

Nicole Fanya Siparsky  
Washington Hospital Center Program  
General Surgery  
Washington, DC

Abdul Shaheed Soudan  
Mercy Hospital of Pittsburgh Anesthesiology  
Pittsburgh, PA

Terri L. Spencer  
UMDNJ-Robert Wood Johnson Medical School (Camden) Program  
Internal Medicine  
Camden, NJ

Jeffrey Lee St. John  
Dartmouth-Hitchcock Medical Center Program  
Internal Medicine  
Lebanon, NH

Michael John Stephen  
Beth Israel Deaconess Medical Center Program  
Internal Medicine  
Boston, MA

Cheryl Patrice Sterling  
Medical College of Virginia/Virginia Commonwealth University Program  
Internal Medicine  
Richmond, VA

Michael David Stillman  
Boston University Medical Center Program  
Internal Medicine  
Boston, MA

Ramin Ronald Tabaddor  
Harvard/Brigham and Women's Hospital Program  
Neurological Surgery  
Boston, MA

Jeanette Marie Tetrault  
Yale-New Haven Medical Center Program  
Internal Medicine (Primary Care)  
New Haven, CT

Suraj Suryanayana Venna  
Boston University Medical Center/Tufts University Program  
Dermatology  
Boston, MA

Scott Anthony Wang  
University of California (Irvine) Program  
Emergency Medicine  
Orange, CA

Charisse Janet Ward  
Naval Medical Center Program  
Internal Medicine  
Bethesda, MD

Todd Andrew Watson  
University of Pennsylvania Program  
Anesthesiology  
Philadelphia, PA

Benjamin Menasheh Weinberg  
VA Greater Los Angeles/UCLA-San Fernando Valley Program  
Internal Medicine  
Sylmar, CA
In 1999, BUSM's Committee on Faculty Affairs (CFA) determined that the many excellent educators on the School’s faculty deserved recognition for their dedicated efforts to educate BUSM students at the highest level possible. Furthermore, the CFA determined that such recognition was most relevant if initiated by students and affirmed by faculty. The 2001 recipients of the CFA Educator of the Year Awards include:

**GRADUATE SCIENCES**
- Herbert Kagan, PhD, Biochemistry

**PRECLINICAL SCIENCES**
- Deborah Vaughan, PhD, Anatomy and Neurobiology

**CLINICAL MEDICINE**
- Dick A. J. Brown, MD, Obstetrics-Gynecology

**Doctor of Philosophy Degrees**

- **Gerald Patrick Bailey, BS, DDS**
  “The Effects of Calcitonin Gene-Related Peptide on Stimulus Coding in Hair Cells of the Lateral Line Organ of Xenopus laevis”

- **Karen Lilford Barstow, BA, MA**
  “Subthalamic Control of Dopamine Release in the Substantia Nigra”

- **Elisabeth Marie Battinelli, AB, MSc**
  “The Role of Nitric Oxide in Megakaryocyte Apoptosis and Thrombopoiesis”

- **Andrew Alan Bremer, BS**
  “Molecular Characterization of the Agonist/Neurometer-1 Receptor Complex”

- **William Linneaus Burch, BA, MA**
  “The Folding of ApoB is Dependent on Disulfide Bond Formation and is Assisted by Molecular Chaperones ERp72 and GRP94”

- **Dongpo Cai, BS, MS**
  “And-34, a Novel P130Cas-Binding Signaling Protein with a GEF Domain for RAS Family GTPases”

- **Padmalatha Channavajhala, BHMS, MS**
  “Disregulated Signaling Pathways in T Cell Lymphomas Derived From CK2 Transgenic Mice”
  Postdoctoral Research Associate — Boston University School of Medicine

- **Amy Kamal El Jack, BS**
  “Molecular Events Leading to the Establishment of Insulin-Dependent Vesicular Traffic and Glucose Transport Regulation”

- **Zeina Dagher, BS, MA**
  “The Effects of Amp-Activated Protein Kinase and its Activator Aicar Riboside on the Metabolism of Endothelial Cells”

- **Daniel Peter Gaposchkin, BA, MA**

- **Jonas Kirk Hamm, BS**
  “Transcriptional Regulation of Adipogenesis and Insulin Sensitivity”
  Postdoctoral Fellow — Beth Israel Deaconess Medical Center, Harvard Medical School

**Herbert Kagan, PhD, professor of biochemistry, was honored at Commencement with a CFA Educator of the Year Award in Graduate Sciences.**

- **Dong Wook Kim, BSE, MSE**
  “Roles of NF-Kappah/Rel, Aromatic Hydrocarbon Receptor, C-MYC, and P27KIP1 in Breast Cancer”

- **Autumn Marie Klein, BA**
  “Beta Amyloid Injections Cause Cortical Injury and Oxidative Damage in the Mouse Cerebral Cortex”

- **Carrick Chi-Lih Lau, BS**
  “Transcriptional Regulation of the NMDA Receptor Subunit 1 Gene in Rat Neocortical Neurons by the Map Kinase and Cyclic AMP-Dependent Signaling Pathways”
Edward Lee, BS
“Age-Related Changes in the Rhesus Monkey Cerebral Cortex: A Molecular Biology Approach with Anatomical Correlations” †

He-Jin Lee, BS
“Protein Acetylation and Deacetylation as a Novel Regulatory Mechanism for Endothelin Receptor A-Mediated Downstream Effects” †

Sun-Hwa Lee, BS, MS
“Production of Serovar Specific Glycopeptidolipid (SSGPL) Isoform Variants to Study Pathogenesis of Mycobacterium Avium”

Yi Liu, BS, MBA
“Identification of a CD4 Domain Required for IL-16 Binding and for IL-16 Induced Lymphocyte Chemotaxis”

Charlotte Burr Modahi, BA, MA
“Oxytocin and Oxytocin Extended Peptide in the Plasma of Autistic and Normal Children” Assistant Clinical Professor—Department of Pediatrics, University of California at Irvine School of Medicine

Marc Christian Morais, BS
“Phosphonoacetaldehyde Hydrolase: A Paradigm for the Catalytic Mechanism of the 2-L-Haloacid Dehalogenase Enzyme Superfamily”

Sarah Katherine Oikena, BA
“Localization of Synaptobrevin/VAMP Family Members in Cells of the B Lymphocyte Lineage” †

Matthew Pavao, BS, MA
“Identification and Biochemical Characterization of a Novel Nuclear Protein (nmt55) in Human Breast Cancer”

Ryan Paul Pavlovich, BA
“The Interleukin-15 Receptor Chain Mediates the Inhibitory Activity of IL-15”

Thomas Nathan Plasterer, BS
“Domain Dissection and Phylogenetic Analysis of Mitochondrial Proteins as a Model for Genome Annotation”

Wei Sun, BS
“Y-Box Binding Protein-1 Interacts with a Transforming Growth Factor Beta Responsive Element in the I (I) Collagen Gene Promoter” † Postdoctoral Fellow—Harvard Medical School

Lori Lynn Tortorella, BS
“Growth Factor Regulation of Myocyte Proliferation and Differentiation”

Didem Vardar, BS
“The Structure and the Function of Headpiece Domains: A Unique F-Actin Recognition Motif” † Postdoctoral Fellow—Beth Israel Deaconess Medical Center, Harvard Medical School

Heng Wu, BS
“Molecular Mechanisms Involved in PKC-Beta Mediated Human Pigmentation”

Xionghe Yang, BM
“Mechanisms Regulating the Expression of an Inducible G-Protein Coupled Receptor—Human Bradykinin B1 Receptor Gene” † Staff Scientist, Lincoln Technologies

Adrian Ho-Tin Zai, BA
“The Role of Cell-Surface Protein Disulfide Isomerase in Nitric Oxide Bioactivity”

Bangmin Zhu, BS, MS
“The Potential Role of the CD95 (FAS)-CD95 Ligand (FasL) Pathway in T-B Cell Interactions in vivo and Enhanced Fas Ligand Gene Expression in T Helper 1 (Th1) Compared to T Helper 2 (Th2) Cells” †

† January 2001 graduates
Boston University School of Medicine Student Awards and Prizes for the Class of 2001

The David Rothbaum, MD, Award in Obstetrics and Gynecology
Navneet Kaur Gogia

Dr. David R. Iverson Student Award
Brett Ivan Greenberger

Solomon Carter Fuller Award
Pearl E. Christie

Ruth Hunter Johnson Prize
Nathaniel Kim Clark Dennis Michael O’Neil

Robert G. Feldman, MD, Prize in Neurology
David Gregory Kornguth

John F. O’Connor, MD, Radiology Prize
Christian Joseph Ingui

Peter E. Pochi Award for Excellence in Dermatology
Suraj Suryanarayana Venna

Henry J. Bakst Award in Community Medicine
Diana Tej Arwal Richard T. Marino, Jr.

Job E. Fuchs Scholarship Award
Jeanette Marie Tetrelau

Dean Eleanor Tyler Memorial Award
Christopher Michael Andreoli Carrie Lilynn Tong

Boston International Foundation for Medical Education Award (in honor of Frederick Stare, MD)
Vanessa Nina Porudominsky

Elizabeth K. Moyer Memorial Prize in Anatomical Sciences
Michael Jason Richard

Anthony L. F. Gorman Prize in Physiology
Joseph Frank Renzulli II

Pauline Millstein Family Fund Award
Mark Frederick Riederer

Internal Medicine Award
Elisabeth Marie Battinelli Yu Liu Ann Leslie Pinto

Medical Student Excellence in Emergency Medicine Award
Laura Jean Eliseo

Sidney Cooperband Award
Dong Wook Kim

Henry J. Bakst Scholarship Award
Bradford Scott Knight

Alumni Association Award
Anna Fatima Fontes Andrade Aleksander Chudnowsky Tracy Lee Garza Polanco

William F. McNary, Jr., Award
Anthony Michael DeLuise Jr.

Diana Radkowski Award
Phyllis Hsiao-Fan Peng

The Masakichi and Mitsuko Itabashi Award
Denise W. Gee

AMWA’s Janet M. Glasgow Memorial Achievement Citation
Aditi Kinkhabwala Sarah Avery Teele Carrie Lilynn Tong

Robert Slater, MD, Prize in Anesthesiology
Lori A. Brightman

Bertha Curtis Award
Lori A. Brightman

John M. Murray Prize
Harry T. Enderlin

Malamud Prize
Harry T. Enderlin

Louis Weinstein Prize in Infectious Diseases
Shawn Michael Ferullo

New England Pediatric Society Award
Shawn Michael Ferullo

Peter J. Mozden, MD, Award
Keith Wayne Vahe Johnson

Dr. John Dittmer and Dr. Linda Wright Award for Excellence in Teaching
Keith Wayne Vahe Johnson

Abbott Laboratories/Murex Diagnostics Award in Microbiology
Yu Liu

Benjamin Tenney Prize in Obstetrics & Gynecology
Jason Raymond Ouellette

Dr. Samuel L. Poplack Award
Jason Raymond Ouellette

Mary Stafford Surgery Award
Ann Leslie Pinto

Kenneth C. Edelin Prize in Obstetrics and Gynecology
Anna Fatima Fontes Andrade

Jacob Swartz Award from the Class of 1981
Anna Fatima Fontes Andrade

Richard J. Elkort Memorial Award
Amit Dave Bhrany

Dora Savner Memorial Prize for Excellence in Surgery
Amit Dave Bhrany

Chester S. Keefer Scholarship Award
Amit Dave Bhrany

Boston Medical Center Student Prize
Sarah Avery Teele

Dean Chohanian presents Deborah Vaughan, PhD, associate professor of anatomy and neurobiology, with the CFA Educator of the Year Award in Preclinical Sciences.

Stephen R. Preblud, MD, Memorial Award for Pediatrics
Sarah Avery Teele

Esther B. and Albert Kahn Scholarship Award
Sarah Avery Teele

The Healthcare Foundation of New Jersey Humanism in Medicine Student Award
Sarah Avery Teele

Geoffrey Boughton Student Award in Pathology
Amit Dave Bhrany

American Society of Clinical Pathology Award
Amit Dave Bhrany

Merck Manual Award
Amit Dave Bhrany Shawn Michael Ferullo Sarah Avery Teele
Dick A. J. Brown, MD, associate clinical professor of obstetrics-gynecology, was honored at Commencement with the CFA Educator of the Year Award in Clinical Medicine.
Five years have passed since Boston Medical Center (BMC) was created out of the merger of Boston City Hospital, Boston Specialty and Rehabilitation Hospital, and the Boston University Medical Center Hospital. The nation's first full-asset merger of two public hospitals with a private academic medical center has been enormously successful, and BMC has emerged as one of the premier academic teaching hospitals in the country.

Pointing to three key factors that have led to the successful merger, BMC President and CEO Elaine Ullian said the hospital has remained strongly committed to its mission, maintained financial discipline, and recruited the nation's top health care providers. "We have not strayed from what we set out to do," she says. "As the largest provider of care to the uninsured and low-income populations in the area, and as the largest safety-net hospital in New England, we continue the legacy of providing exceptional care without exception."

The statistics support BMC's steadfast approach to its mission. Last fiscal year, the medical center provided more than $163 million in free care—$13 million more than was provided five years ago. Despite this amount of free care, financial stability has been achieved by special federal- and state-funded programs to care for the indigent and by increases in both inpatient and outpatient activity at the medical center. BMC also offers eligible uninsured patients the Boston Medical Center HealthNet Plan, a unique Medicaid managed health care plan that provides increased access for patients who otherwise may not receive care. In the four years since its inception, the plan has grown to include more than 50,000 members.

Equally important has been the partnership with others, especially the Boston HealthNet Community Health Centers. With more than 30 percent of BMC's patients speaking languages other than English, the hospital provides one of the most extensive interpreter services programs in the country, providing 24-hour coverage in 17 languages.
"We have put together an amazing staff of dedicated employees, nurses, and physicians who are committed to ensuring all our patients are receiving the highest-quality care. Their daily actions and their commitment to the mission have been the cornerstone of our success," says Ullian.

"The partnership between Boston University School of Medicine (BUSM) and BMC has led to the development of a true medical campus with major strengths," says BUSM Dean Aram Chobanian, MD, provost of Boston University Medical Campus. "It has a lot of important strengths in the research, education, and clinical areas." Additionally, Boston University and BMC are jointly developing BioSquare, a state-of-the-art biomedical research and business park adjacent to the medical center.

According to Ullian, BMC's financial discipline, strong leadership, and dedicated fund-raising efforts have enabled the medical center to endure in a difficult health care environment. BMC's volume continues to grow and is showing a steady upward trend—in the past five years, inpatient volume is up 15.5 percent and outpatient volume has increased 12 percent. In addition, since the merger, BMC has contained

MARSHALL CARTER
CHAIRMAN OF THE BOARD OF TRUSTEES

Marshall Carter, a senior fellow at the Center for Business and Government at the Kennedy School of Government of Harvard University, was chairman and CEO of the State Street Bank and Trust Company and its holding company, the State Street Corporation, from 1992 to 2000. He joined State Street in July 1991 as president and chief operating officer, and soon afterward became CEO and chairman. During his nine years as CEO, the company grew more than sixfold.

A trustee of Boston Medical Center for several years, Carter has been involved in several philanthropic endeavors throughout Boston. For seven years, he served as chairman of the Boston Private Industry Council Summer Jobs Program, which provides jobs for Boston public school students at local companies. He was also the founding co-chairman of the Business Collaborative, a partnership that helps bring minority-owned businesses into the mainstream.

Carter is on the board of directors of Honeywell International Inc., and has served on the board of Orbis International, the international flying/teaching eye hospital, as well as the boards of the American Bankers Association, Euroclear, and National Securities Clearing Corporation. He was also a co-chairman of the U.S. Working Group of Thirty, which developed recommendations for revamping world securities clearance and settlement processes.

A former U.S. Marine Corps officer who was awarded the Navy Cross and Purple Heart during two years of service in Vietnam, Carter served as a White House Fellow at the U.S. State Department and Agency for International Development from 1975 to 1976. In this position, Carter's major projects included the application of satellite technology to agricultural activities in West Africa and the use of high level U2 photography for disaster relief activities in Guatemala.

Carter holds a bachelor's degree in civil engineering from the U.S. Military Academy at West Point, a master's in operations research and systems analysis from the U.S. Naval Postgraduate School, Monterey, California, and a master's in science, technology and public policy from George Washington University. In 1996 he co-authored a book on Social Security titled, Promises to Keep, Saving Social Security's Dream.
costs through such measures as eliminating duplicate services, consolidating clinical departments, and reducing supply expenses.

BMC’s success has been directly related to its proactive expansion of clinical programs, such as the Department of Family Medicine, the Diabetic Foot Center, the Center of Digestive Disorders, Boston HealthNet, Orthopaedic Trauma, Oncology and Cancer Care, all of which have increased access for patients. Recruitment efforts have been equally fruitful, Ullian says, attracting many of the nation’s leading medical experts. “The fact that more than 50 established physicians have chosen to work at BMC during the past five years tells us that others are starting to take notice of the amazing things that are happening here.”

“We have secured a solid footing in this competitive and ever-changing health care market,” says Marshall N. Carter, the newly appointed chairman of the BMC Board of Trustees. “We have set out on the right path toward a promising future. If we look ahead another five years, I think the real key is to maintain the mission, rather than creeping into the suburbs.”

ELAINE ULLIAN PRESIDENT, CEO

Elaine Ullian has more than thirty years of health care experience with an emphasis on ensuring the availability of community-based health care services through academic medical centers. She is widely viewed as an expert in the delivery of health care services and health care policy on a local and national level.

Ullian spearheaded the successful process of executing the nation’s first full-asset merger of two public hospitals with a private medical center to form Boston Medical Center in 1996. Under Ullian’s leadership, BMC has expanded its community focus and significantly increased access to health services to all in need.

Prior to joining Boston University Medical Center Hospital (the predecessor hospital to BMC) in 1994 as president and CEO, Ullian served as president and CEO of Faulkner Hospital, a community teaching hospital in Boston. While at Faulkner Hospital, Ullian was instrumental in establishing a breast cancer detection and treatment center that has earned a national reputation.

Ullian’s professional experience also includes serving as vice president for Clinical Operations at New England Medical Center, director of Strategic Planning at FinReport/Amherst Associates, director of Strategic Planning at University Hospital, and program director at the Massachusetts Department of Health.

Ullian is also an associate professor at Boston University School of Public Health and a member of the faculty of the Harvard University School of Public Health. She holds a bachelor of arts degree from Tufts University and a master’s degree in public health from the University of Michigan.

Lending her expertise and knowledge to many professional and service organizations, Ullian is currently chairperson of the Conference of Boston Teaching Hospitals, a member of the board of Massachusetts Hospital Association, and a member of the board of the Boston Public Health Commission. Ullian serves on Mayor Thomas M. Menino’s Health Care Finance Task Force and Acting Governor Jane Swift’s Health Care Task Force. She also served on Governor Paul Cellucci’s Health Care Task Force and the transition teams for Governor William Weld and Menino.

In addition, Ullian serves on the boards of Vertex Pharmaceuticals, Inc.; Healthcare Research & Development Institute, LLC; Premier; and Hologic.

Ullian is the recipient of numerous honors and awards. A select list of these honors includes the Big Sister Association Achievement Award, the Distinguished Services Award from Tufts University, the New England Council’s Leadership Award to Women in Business, and the Boston Club Achievement Award.
The Boston University School of Medicine (BUSM) Alumni Association held its annual Alumni Weekend on May 18 and 19, 2001. The festive weekend included a tour of the Museum of Fine Arts, the annual Scientific Program, a reunion celebration for eleven BUSM classes, tours of Boston on World War II-era amphibious vehicles, a luncheon, a retirement and estate planning program, tours of the medical campus, and the 126th Annual Meeting and Banquet.

One of the weekend’s highlights included three distinguished alumni presenting the named lectures at the Scientific Program on Friday, May 18. Deborah Cotton, MD ’76, an infectious disease specialist, presented the Leah Lowenstein Lecture, “Lessons from a Modern Pandemic: The Twentieth Anniversary of AIDS.” Jonathan Epstein, MD ’81, a pathologist, gave the S. A. Kaufman, MD, Memorial Lecture on “Critical Issues for the Non-Specialist in the Diagnosis of Prostate Cancer,” and Michael Salcman, MD ’69, a neurosurgeon, presented the Sidney Kibrick, MD, Lectureship on “New Ways of Seeing and the Creative Process.”

On Friday evening, eleven classes celebrating reunions gathered at The Westin Hotel, Copley Place. Joined by Dean Aram Chobanian, the class of 1976 celebrated its 25th reunion in a high-spirited and fun-filled fashion. Representing an earlier generation, seven members of the class of 1946 enjoyed an intimate 55th reunion dinner. Alumni Association Executive Director Barry Manuel, MD ’58, joined members of the class of 1961 to help them celebrate their 40th reunion.

The following afternoon, during a luncheon in the Hiebert Lounge, Chobanian updated alumni and guests on the School’s latest developments. Manuel presented a brief slide presentation chronicling BUSM from its early days through the present and highlighting some of the memorable people who have graced the history of the School. The 50th reunion class of 1951 received special recognition and members were presented with commemorative pewter plates marking the occasion.

The weekend came to an elegant close with the Annual Meeting and Banquet held at The Westin Hotel,
Copley Place. Alumni and guests, department chairs, faculty, staff, and members of the class of 2001 and their families mingled at the reception prior to entering the grand ballroom for a festive dinner and dancing that lasted until late into the evening.

In his welcoming remarks, Alumni Association President M. Douglass Poirier ’76, recognized special guests, including the 50th reunioners and the newest alumni, members of the class of 2001 celebrating on the eve of their graduation.

The banquet also recognized a special achievement. In honor of their 25th reunion, the members of the class of 1976 presented a check for $100,000 to Dean Chobanian to establish the first class-funded scholarship at BUSM.

Presentation of the Distinguished Alumnus Awards is always a highlight of the weekend and this year was no exception. Poirier presented awards to I. Howard Fine ’66, Ronald L. Katz ’56, and Michael Salcman ’69 (see Dean’s Report 2001).

At the close of the official meeting, Robert Witzburg ’77 was welcomed as the 2001/02 president of the Alumni Association. He offered poignant remarks to the graduates and thanked Poirier for his time and leadership as president.

Alumni Weekend 2001 was a great success, much of which can be attributed to the efforts of the reunion volunteers. Special thanks go to these dedicated alumni:

- William Franklin ’46
- Walter Leonard ’46
- David Baker ’51
- Arthur Boruchoff ’51
- Adolph Clachko ’51
- Burton Korelitz ’51
- Artemis Simopoulos ’56
- Melvin Stahl ’56
- Philip Andrews ’61
- Philip Arena ’61
- Stafford Cohen ’61
- George Edward Garcia ’61
- Carol Milchenski
- Rothman ’66
- Herbert Rothman ’66
- Geoffrey Emerson ’71
- George Whitelaw ’71
- Deborah Cotton ’76
- Loring Flint Jr. ’76
- Neil Grossman ’76
- Douglass Poirier ’76
- Maureen Strafford ’76
- Fred Krainin ’81
- Melody McCloud ’81
- Jay Bachicha ’82
- Pamela Connors ’86
- Julia Gates ’91
- Hellen Kim ’91
- Elizabeth Mahanor ’96
ALUMNI WEEKEND 2001

Members of the Class of 1991 and guests enjoy being together at the reunion reception: from left are Yuri and Marina Alfisher, Michael Macari, George Cortas, Scott and Judy Pendergast, and Scott and Marka Dudak.

Dean Aram Chobanian gladly accepts a check from Alumni Association President Douglass Poirier '76 for $100,000. The check represents the generous 25th Reunion Class Gift raised by the Class of 1976 to establish an endowed scholarship fund at BUSM.

Barry Manuel '58 stands with Deborah Cotton '76, who presented the Leah Lowenstein Lecture.

A gathering of members of the Class of 1961 includes, from left, Stafford Cohen with his wife, Deborah, Richard Dolins with his wife, Ilene, and Simon Parisier with his wife, Elaine.

Members of the Class of 1956 and guests gather for their 45th reunion. From left are Ellen Magner, Carl Werner, Jeanie Safon, James Kenney, Leonard Safon, Estelle Stetz-Marcus, Albert Marcus, and Donna and Herbert Weber.
The DUCK Tour offered a unique view of Boston from the Charles River to dozens of alumni. Among them are Dot and Don Davis '51, Eleanor and Charles Long '51, and Burton Korelitz '51 and his wife, Ann.

Alumni Association Student Award recipients, from left, Tracy Lee Garza Polanco, Aleksander Chudnovsky, and Anna Andrade, gather together for a portrait on the eve of their graduation. The three members of the Class of 2001 were honored for their continuous service to the Alumni Association over the past four years.

Michael Salcman '69, center, the Sidney Kibrick, MD, lecturer and professor of neurosurgery at George Washington University School of Medicine, poses with Dr. Anne Kibrick and her son, John. Kibrick established the lectureship in her late husband’s honor on the occasion of his 80th birthday and the 50th anniversary of his graduation from BUSM.

Marking the traditional “passing of the gavel” from one president to the next is Barry Manuel '38 with outgoing president Douglass Poirier '76 and incoming president Robert Witzburg '77.
Susan Hill and Elaine Whalen enjoy a few laughs with their husbands, Stephen Hill '76 and Thomas Whalen '76, at a collage of class portraits showing how the classmates used to look.

55th Reunioners take time to mark this milestone at the reunion reception. From left are members of the Class of 1946, Robert Joy, Walter Leonard, and John Bowers.

Barry Manuel '58 and Alumni Association President Douglass Poirier '76 flank the recipients of the 2001 Distinguished Alumni Awards, Ronald Katz '56, Michael Salzman '69, and Howard Fine '66.

Mark Cutler and his wife, Sandi, get a kick out of the large poster showing the Class of 1971 on Match Day.

S. A. Kaufman, MD, Memorial Lecturer Jonathan Epstein '81, professor of pathology and oncology at The Johns Hopkins University School of Medicine, joins Charlotte Kaufman, widow of Seymour Kaufman '48, in whose memory the lecture was established.

Keeping it in the family are reunioners Alexandra Pinkerson '96 shown with mom and dad, Alan Pinkerson and Artemis Simopoulos, both members of the Class of 1956.

Classmates Elizabeth Mahanor and Eileen Fisk, Class of 1996, smile for the camera while celebrating their 5th reunion.
Mary Jane England, MD '64, a member of the Boston University School of Medicine Board of Visitors, has been appointed the ninth president of Regis College. England assumes the presidency after successfully serving as president of the Washington Business Group on Health in Washington, D.C.

England received her psychiatric training at University Hospital in Boston and Mt. Zion Hospital in San Francisco. For the last ten years, she has served on the School’s Board of Visitors and has chaired the Board of Visitors at Boston University School of Public Health.

England’s commitment to working with youth and families is exemplified by her government and national foundation experience. From 1979 until 1983, she served as the first commissioner of the Massachusetts Department of Social Services (DSS). During her tenure at DSS, she led the agency in providing quality care and safety for children and families.

As a national program director of the Robert Wood Johnson Foundation’s Mental Health Services Program for Youth, she administered $26 million in grants to twenty states to fund comprehensive home and community-based services for children with serious mental, emotional, and behavioral disorders.

England is the recipient of numerous honors and awards, including an honorary degree from Boston University, and the Boston University Alumni Award for Distinguished Service to Community, and the BUSM Distinguished Alumni Award.

She has also received honorary degrees from Regis College, where she is also a graduate; the Massachusetts School of Professional Psychology; and the University of Texas.

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Phyllis L. Carr, MD
Phyllis L. Carr, MD, was appointed associate dean and head of the Office of Student Affairs on August 1, 2001. Carr has extensive experience in curriculum development, residency selection committees, education and the development of women in academic medicine, as well as in clinical practice. Her research interests include studies of diagnostic and therapeutic strategies in healthcare, many of which have been carried out in collaboration with BUSM faculty. She served as co-editor of a major book on women's health with BUSM's Karen Freund, MD, MPH. She also is on the editorial board of Women's Health in Primary Care. Last year, Carr received the Daniel B. Federman Award for Excellence in Teaching at Harvard Medical School.

She received her AB degree from Radcliffe College and her MD from Harvard Medical School. She trained as a resident in internal medicine at Cornell-New York Hospital and as a research fellow in general internal medicine at Massachusetts General Hospital (MGH) prior to joining the BUSM faculty in 1983 as assistant professor of medicine. Carr returned to MGH and Harvard Medical School in 1989 and has remained there until the present as a member of the general medicine group and an assistant professor of medicine.

Mark S. Klempner, MD
An internationally recognized expert on infectious diseases, Mark Klempner, MD, has joined BUSM as the assistant provost for Research and the Conrad Wesselhoeft Professor of Medicine at BUSM. In addition, he was appointed vice chair for Research in the Department of Medicine at Boston Medical Center. In his new positions, he will be responsible for developing collaborative research themes and programs across the medical campus and fostering closer scientific program relationships with Boston University's Charles River Campus.

Klempner received his medical degree from Cornell University Medical College and completed his internship and residency in internal medicine at Massachusetts General Hospital. He then received training in the clinical and research aspects of infectious diseases at the National Institutes of Health and the U.S. National Naval Medical Center in Bethesda, MD. After returning to Boston, Klempner rose to the position of Louisa C. Endicott Professor of Medicine at Tufts University School of Medicine, chairman of the New England Medical Center Research Council, and vice chairman for Scientific Affairs in the Department of Medicine at New England Medical Center.

He has served as chairman of the Infectious Diseases Subspecialty Board and on the board of directors of the American Board of Internal Medicine. Klempner has also served as president of the Association of Subspecialty Professors of Medicine and is a member of the Accreditation Council for Graduate Medical Education, the American Society for Clinical Investigation, and the Association of American Physicians. His research focus is on Lyme disease, as well as new high-technology methods to identify microorganisms found during space travel. Klempner is the author of more than 250 publications and has received numerous national and international awards for his research. He maintains a clinical practice in both general internal medicine and infectious diseases. He has been recognized as one of the "Best Doctors in Boston" and "Best Doctors in America" by his clinical colleagues.
**Stanley Shapsay, MD**

A leading specialist in otolaryngology, Stanley Shapsay, MD, was recently appointed professor of otolaryngology—head and neck surgery at BUSM, and joined the staff of Boston Medical Center. Shapsay will continue his extensive specialty practice in the treatment of diseases of the voice and airway, chronic sinusitis, head and neck surgery and laser treatment of head and neck tumors and vascular malformations.

Since 1994, Shapsay has served as professor and chairman of the Department of Otolaryngology at Tufts University School of Medicine, and otolaryngologist-in-chief at New England Medical Center. His research group will relocate its laboratory to the School.

He received his medical degree from the Medical College of Virginia, and completed a surgery internship at Boston City Hospital and surgical residency at New England Medical Center. He performed an otolaryngologist residency through the combined BU/Tufts Residency program at University Hospital, and a surgical fellowship at the Karolinska Medical School in Stockholm, Sweden. Shapsay is currently president of the American Laryngological Association, president of the World Congress on Bronchoesophagology, and vice president-elect of the Eastern Section of the Triological Society.

**Michael Stone, MD**

Michael Stone, MD, has been appointed professor of surgery at Boston University School of Medicine and chief of the Section of Surgical Oncology at Boston Medical Center.

Most recently, Stone served as surgical director of the Cutaneous Oncology Clinic and vice chairman for Education at Beth Israel Deaconess Medical Center, and associate professor of surgery at Harvard Medical School. He has also served as associate director for Surgical Oncology at the Cancer Center of Beth Israel Deaconess Medical Center, and on the staffs of Dana-Farber Cancer Institute and New England Baptist Hospital.

Stone received a bachelor’s degree from Harvard University and his medical degree from the University of Vermont College of Medicine. He completed a surgery internship and residency at New England Deaconess Hospital, where he also served as chief resident in surgery. Following his residency, Stone was a surgical oncology fellow at Memorial Sloan Kettering Cancer Center in New York.

His major research interests include bile duct cancer, liver resection, metabolic function of the liver during and after relief of biliary obstruction, and surgical education.

A member of many professional organizations, Stone has published numerous articles, reports, and abstracts. He has received teaching awards and various honors, including twice being named in Boston Magazine’s “Top Doctors” issue.
Kwabena Kyei-Aboagye, MD, PhD, associate professor of obstetrics/gynecology, and director of the Substance Abuse Pregnancy Program at Boston Medical Center, was honored by the Boston Public Health Commission, Substance Abuse Services, for his years of commitment to improving the health of women and reducing barriers to health care.

Nancy L. R. Bucher, MD, research professor of pathology and laboratory medicine, was recently honored by the American Liver Foundation with its Distinguished Scientific Achievement Award. The award recognizes scientists for major contributions to liver disease research in basic science or its application toward prevention, treatment, or cure.

Michael Bliss, MD, associate professor of medicine and a member of the Department of Gastroenterology, has been honored by the American Gastroenterological Association (AGA) with the prestigious Distinguished Clinician Award from the year 2001. The AGA established the Distinguished Clinician Award to recognize members of the practicing community who, by example, combine the art of medicine with the skills demanded by the scientific body of knowledge in service to their patients.

Leonard S. Gottlieb, MD, MPH, professor and chairman of the Department of Pathology and Laboratory Medicine, and director of the Mallory Institute of Pathology, became an Honorary Fellow of The Hebrew University of Jerusalem, and his name was inscribed on the Wall of Life located at the university.

Carlos Kase, MD, professor of neurology, director of the Residency Program in Neurology, and director of the Stroke Service in the Division of Neurology at Boston Medical Center, received the American Stroke Association’s 2001 C. Miller Fisher, MD, Award for outstanding accomplishments in the field of neuroscience.

Susan O’Brien, MD, assistant professor of pediatrics at BUSM and director of Newborn Care at Boston Medical Center Birth Place, has been chosen as one of only 30 fellows for ZERO TO THREE’S prestigious Leaders for the 21st Century program. This leadership development initiative provides the participants with an opportunity to collaborate with top leaders from many disciplines, as well as receive assistance for an innovative project aimed at improving the lives of very young children. During the two-year fellowship, O’Brien will focus her work on expanding and integrating a range of programs into a cohesive Center for Excellence in Newborn Care.

Harilaos T. Sakellarides, MD, associate clinical professor of orthopedic surgery, was recently invited by the Association of Hand and Microsurgeons of India, International Institute of Hand and Microsurgery Conference, Patna Medical College, to speak to hand and orthopedic surgeons. Sakellarides was also recently honored by the eighth Congress of the International Federation of Societies for Surgery of the Hand as one of the pioneers of hand surgery. The event took place in Istanbul, Turkey.

M. Michael Wolfe, MD, professor of medicine and research professor of physiology and biophysics, was appointed chair of the U.S. Food and Drug Administration (FDA) Advisory Board for Gastrointestinal Drugs. This committee provides guidance to the FDA in the evaluation of new and existing treatment modalities. The task includes the approval of new drugs, the reassessment of existing treatments, the formulation and revision of drug labeling, and guidelines regarding potential new forms of treatment.
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<tr>
<th>Event</th>
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<tr>
<td>BUSM WHITE COAT CEREMONY</td>
<td>September 7</td>
<td>Boston, MA</td>
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<td>DEAN'S CLUB DINNER</td>
<td>September 8</td>
<td>Boston, MA</td>
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<td>BOSTON ALUMNI AND FRIENDS RECEPTION</td>
<td>October 3</td>
<td>Boston, MA</td>
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<td>NEW ORLEANS ALUMNI AND FRIENDS RECEPTION</td>
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<td>NEW YORK CITY ALUMNI AND FRIENDS RECEPTION</td>
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<td>BUSM PARENTS' RECEPTION</td>
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<td>ALUMNI FALL PHONATHONS</td>
<td>October 22, 29, and 30</td>
<td>Boston, MA</td>
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<td>CALIFORNIA ALUMNI AND FRIENDS RECEPTIONS</td>
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<td>San Francisco, CA</td>
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<td>FLORIDA ALUMNI AND FRIENDS RECEPTIONS</td>
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<td>Palm Beach, FL</td>
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<td>ALUMNI SPRING PHONATHON</td>
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<td>AOA INDUCTION CEREMONY</td>
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<td>MATCH DAY</td>
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<td>KEEFER SOCIETY DINNER</td>
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<td>WASHINGTON, D.C. ALUMNI AND FRIENDS RECEPTION</td>
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<td>BOARD OF VISITORS MEETING</td>
<td>May 2 and 3</td>
<td>Boston, MA</td>
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<td>ALUMNI WEEKEND</td>
<td>May 17–18</td>
<td>Boston, MA</td>
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<td>COMMENCEMENT</td>
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<td>Boston, MA</td>
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For more information, please call the Development Office at 617/638-4570 or the Alumni Office at 617/638-5150.
Bright Idea—Estate Planning

A solid estate plan is important to you and your loved ones. Now is always a good time to start planning or to update your plan. Steps to a sound estate plan may include:

- Distribution of your assets to whom and in what amounts
- Current, valid will
- Periodic review of your will
- Tax-minimizing techniques

The Office of Gift and Estate Planning at Boston University offers a complimentary booklet on wills and estate planning.

WANT TO LEARN MORE?

Please call the Office of Development at Boston University School of Medicine at 617/638-4570 or return the form below. There is no obligation and all requests for information are kept confidential.

☐ Yes, please send me the booklet on wills and estate planning. Please mail to:

Lynn E. Hendricks
Director of Development
Boston University School of Medicine
715 Albany Street L-219
Boston, Massachusetts 02118
800/645-2347

Name

School(s) /Year(s)

Address

City

State   Zip

Birth date