

**BOSTON UNIVERSITY
SCHOOL OF MEDICINE**

Campus Alumni News

WINTER 2013 • www.bumc.bu.edu

**DONOR
FY2013
REPORT**

Giving back

It's in their DNA

*Seven alums who have touched BUMC with their
time, expertise, and hearts.*



Kenneth Simons
(MED'80)



David Bailen
(MED'67)



Mary Jane England
(MED'64)



Gilbert Norwood
(CAS'53, MED'57)



Anna DePold Hohler
(CAS'98, MED'98)



David DiChiara
(CAS'80, MED'84)



Donald Grande
(MED'73)

**BOSTON
UNIVERSITY**



DEAR FRIENDS,

Our researchers have developed a way to create an unlimited number of human red blood cells and platelets in vitro, which may reduce the need for blood donations; they have created a computer model that can map the thousands of molecular interactions in tuberculosis (TB) bacteria, potential targets for novel therapeutics; and they have developed a statistical algorithm for early detection

of disease outbreaks that can rapidly identify illness-causing pathogens. Such scientific investigation with potentially life-saving and public health consequences is constantly under way on the Medical Campus.

The research enterprise is being threatened by National Institutes of Health (NIH) budget cuts, jeopardizing current and future scientific discovery and the development of the next generation of scientists. The iconic Framingham Heart Study lost 40 percent of its funding. In a recent survey of 3,700 scientists, 64 percent were having difficulty securing grant funding, 64 percent said that their funding had been reduced, and 80 percent report increased time spent on writing grant applications.

NIH cutbacks are of concern to all of us, and especially to our community of scientists and clinicians and those who support their work. We continue to make the case in Washington, DC, for reversing the rollback of national support for research.

While public support for our mission is vital, so too is the outstanding generosity of our donors who are listed in the annual report of gifts to BUSM in this issue of the magazine. Your continued philanthropy makes so many of our efforts possible.

In meetings with local members of our community and friends and family around the country, I meet many of the wonderful people who support this School. They confirm a strong connection to BUSM that illustrates the strength and enduring legacy of this institution.

The alumni featured in this issue are a small but representative sample of the dedicated support BUSM has to develop resources, enhance the student experience, and ensure a vital future for the School of Medicine.

The faculty, staff, and students of the School of Medicine are grateful for your continued support. On days like matriculation, residency matching, and graduation all of the effort and support was clearly worth it.

Best regards,

Karen Antman

Karen Antman, MD
Provost, Medical Campus
Dean, School of Medicine
Professor of Medicine

Boston University School of Medicine:
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Boston University's policies provide for equal opportunity and affirmative action in employment and admission to all programs of the University.

WINTER 2013

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Class of 2017 Embarks on Medical Education Journey White Coat Ceremony Highlights Transformative Process



you, and best of all, they will be there when you take off the coat and leave the hospital. And I say 'best of all' because this is the goal of medical education: to transform you from the college graduate you are today into a physician."

Drawn from a pool of 11,780 candidates from six entry pathways and 82 undergraduate institutions, the Class of 2017 comprises 52 percent women and 15 percent underrepresented minorities; 20 percent hold at least one graduate degree. Most members of this highly accomplished class have participated in research and many have published scientific papers. Some have volunteered with AmeriCorps, Teach For America, and the Peace Corps, while others have worked in high tech, taught elementary school, or started a business.

The class is diverse in many ways; members come from 27 US states and were born in 25 countries. One hundred forty-three speak more than one language and as a group, speak a total of 25. "In cultural, social, economic, racial, ethnic, educational, and linguistic terms—and in your life experiences—you define the pluralism that we so value in our society," said Associate Dean for

Admissions Robert Witzburg, MD '77, in formally presenting the class.

In accepting the Class of 2017 to the School of Medicine, Dean Antman noted that there would be bumps in the road during their medical education, but reassured them that those who have gone before them faced the same hurdles. She cited the example of one of her own classmates who fainted numerous times during anatomy class only to become a distinguished professor of psychiatry.

"You are about to embark on a great adventure with a steep learning curve," said Antman. "Students talk about the process of learning medicine as 'drinking from a fire hose.' Nevertheless, you will be supported by more than 2,000 faculty, upperclass students, residents, and dedicated staff."

She congratulated the parents of the class and explained, "Becoming a physician will change your daughter or son. Not all of the transition to being a physician is academic, and having issues with adapting to being a physician is normal. In fact, we worry if students *don't* have difficulty dealing with some of the injuries and illnesses they see

during the course of their transition from student to physician."

While Associate Dean for Academic Affairs Douglas Hughes, MD, read off their names, class members climbed the stage and received assistance donning the white coat from Associate Dean for Student Affairs Angela Jackson, MD; Assistant Deans of Student Affairs Kenneth Grundfast, MD, and John Polk (MED'74); Assistant Dean for Diversity & Multicultural Affairs Samantha Kaplan, MD; and Professor Emeritus of Surgery Robert Beazley, MD. Led by Associate Dean for Alumni Affairs Jean Ramsey (MED'90, SPH'08), the class recited the Hippocratic Oath for the first time.

"Beneath that white coat, carry your uniqueness proudly and with great awareness of the contributions each one of you can make in the open environment we have created for your education and professional development," said Associate Dean for Diversity & Multicultural Affairs Rafael Ortega, MD, in his closing remarks. "Let these white coats collectively represent a large canvas on which you will, with great inspiration, paint the masterpieces of your careers."

Held on Talbot Green on August 5, the 2013 White Coat Ceremony marked the beginning of a transformative process that will take the 165 members of the BUSM Class of 2017 from their current life experiences to the role of healer.

Keynote speaker Robert Lowe, MD, BUSM associate professor of medicine, told the class that the white coat is a symbol of intelligence, trust, and responsibility, and is a visible sign to others. "Right now, at the start of medical school, the coat is for you, too, because you're just starting on this journey. So put it on, take some pictures, and wear it proudly when we have you see patients this year. Soon, it is just going to be a coat, with pockets full of books and tools, impossible to keep clean, with a space-age design that is boiling hot in the summer yet ice-cold in the winter.

"That's what's supposed to happen. You are going to internalize the knowledge, the skills, and the values of medicine—they will be in you, not on

ABOVE: Members of the Class of 2017 ready to put on their white coats. **OPPOSITE PAGE: 1.** Class of 2017 member Daniel Choi and his family. **2.** Adam Johnson proudly wears his white coat. **3.** Speaker Robert Lowe, MD, addressing the Class of 2017 and their guests. **4.** Brent Silver and his parents, Rachelle Silver and Lee Silver (MED'82) enjoying the reception with Dean Karen Antman, MD, following the White Coat Ceremony. **5.** Sharing the White Coat Ceremony with Hippocrates are Matthew Luchette and his parents.

FRANK CURRAN



Class of 2017 Parents Hosted at Reception

On August 5, the School of Medicine held a welcome reception prior to the White Coat Ceremony for parents and guests of the BUSM Class of 2017. Dean Karen Antman, MD, spoke of how important family support is for first-year medical students, and how the new Medical Student Residence (MSR) not only provides safe and affordable housing on campus, but also helps foster collegiality and friendship among students. She also highlighted the recently constructed "field of dreams" behind the MSR, an outdoor athletic and gardening space generously donated by a BUSM graduate.



GMS WELCOMES NEW GRADUATE STUDENTS

On September 3, the Division of Graduate Medical Sciences (GMS) welcomed new students to its many programs with a lively barbecue in the Hiebert Lounge cosponsored by the BUSM Alumni Association. Students enjoyed a great meal and met faculty and staff to help ease their transition to graduate studies. GMS Associate Provost Linda Hyman, PhD, helped serve the meal with Tim Fitzgerald, assistant director of the BUSM Alumni Association.



Hee-Young Park, PhD, GMS assistant dean and dermatology and biochemistry faculty member, with Tim Fitzgerald, assistant director of the BUSM Alumni Association.



New to the Medical Campus, GMS students enjoy the barbecue and get to know each other.

BUSM Development Office News

Karen Ann Engelbourg, previously associate dean for development, is now senior associate vice president, working with the Schools of Medicine, Law, and Management, and the Global Leadership team.

Lawrence Crimmins, previously a senior member of the School's fundraising team, has been promoted to assistant dean for development. An experienced relationship-builder and fundraiser at BUSM, Boston Children's Hospital, and Brigham and Women's Hospital, Lawrence will lead the School's development team.

Kate DeForest, previously senior leadership gift officer, will serve as director of advancement. Kate will draw on her relationship-building and operations management experience at BUSM, Brigham and Women's Hospital, and the Boston Latin School Association to advance the mission of the Development office.

The development team looks forward to our continued collaboration with the BUSM community to raise critical support for the School's fundraising campaign and philanthropic priorities.

APPOINTMENTS



Assistant Dean for Academic Affairs
Anna DePold Hohler, MD, FAAN (MED'88), has been named assistant dean for academic affairs. In her new role, she will focus on clinical site development for medical students and faculty development.

Dr. Hohler is an associate professor of neurology at BUSM. A 1998 graduate of the BUSM Seven-Year Accelerated Medical Program, she completed her neurology residency with the US Army at the Madigan Army Medical Center in Tacoma, WA. After attaining the rank of major, she completed a movement disorders fellowship at Boston

Medical Center and subsequently was recruited as staff.

She serves as the director of neurology medical student education and is a course director for the second-year preclinical Neurology Module of the Disease and Therapy course and the third-year neurology clerkship director. She also serves as the faculty advisor to the student interest group in neurology and as a field-specific advisor for students interested in a career in neurology.

Dr. Hohler has been recognized with two American Academy of Neurology Teacher Recognition Awards. She also received the BUSM Stanley L. Robbins Award for Excellence in Teaching in 2012.

She is the current president of the Massachusetts Neurological Association and serves as cochair of the Patient Safety Subcommittee of the American Academy of Neurology.

Dr. Hohler joined the Academic Affairs office as assistant dean on July 1.



Assistant Deans for Clinical Affairs
N. Joseph Espat, MD, chair of the Department of Surgery and chief of surgical oncology at Roger Williams Medical Center (RWMC), is responsible for providing clinical and academic leadership to the Department of Surgery with an emphasis on sustaining quality; directing physician recruitment; identifying needed improvements in technology; and stimulating growth in academic presence, medical education, and research. He was named professor of surgery at BUSM in 2007.

Dr. Espat has authored more than 250 articles, chapters, and abstracts. He is on the editorial board of four journals and was an invited reviewer on 22 others. He completed a surgical oncology/hepatobiliary fellowship at the Memorial Sloan-Kettering Cancer Center in New York and is a graduate of the University of Florida College of Medicine, where he served as chief resident in general surgery.

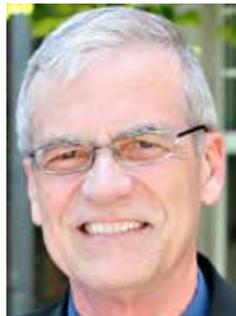


Steven Sepe, MD (MED'82, GRS'83), chair of the Department of Medicine at RWMC, is responsible for leading the Department of Medicine, including overseeing clinical affairs, quality, and program development.

APPOINTMENTS

He has more than 20 years of experience in clinical care, research, and teaching and has also held a number of leadership positions in a variety of health care settings. He was named clinical professor of medicine at BUSM in 2011.

Dr. Sepe is a 1982 cum laude graduate of BUSM, where he also received his PhD in Immunopathology.



Barbara A. Gilchrest Professor of Dermatology

Vincent Falanga, MD, has been appointed the Barbara A. Gilchrest Professor of Dermatology as well as the director and vice chair of research in the Department of Dermatology. He is a professor of biochemistry and the director of the Dermatology Residency Program and an attending dermatologist at BMC.

After completing his undergraduate degree in chemistry at the College of the Holy Cross, he earned his medical degree from Harvard Medical School. He completed his residency in internal medicine at Jackson Memorial Hospital at the University of Miami and is board-certified in internal medicine.

He also completed a residency in dermatology at the University of Pennsylvania, where he was clinical research chief resident. In 2005, Falanga completed his dermatopathology fellowship at RWMC.

Dr. Falanga has been a professor of dermatology and biochemistry at BUSM for 15 years. He also served as the assistant dean of clinical and faculty affairs for RWMC and director of their Boston University Medical Students Ambulatory Medical Clerkship. His previous research involved the first-ever use of a recombinant growth factor in human chronic wounds and gaining Food and Drug Administration approval of living bioengineered skin for venous and diabetic ulcers.

He will direct BUSM's Good Manufacturing Practice facility (currently under construction), where he will oversee groundbreaking research and develop treatments that harness the power of stem cells to treat patients with chronic wounds—particularly in the lower extremities—caused by disorders such as diabetes, autoimmune disease, infection, or other types of vascular insufficiencies.

In his new role, Dr. Falanga will also coordinate many of the research activities related to tissue injury and repair in the department of dermatology. He spearheaded the effort to deliver bone marrow-derived autologous mesenchymal stem cells to human chronic wounds, and developed a special fibrin spray delivery system that his team may have been the first in the world to use.

He has received numerous honors, including being named one of the "Best Doctors in America" and "Top 12 Authors Cited in Dermatology." He has been involved in a number of professional and scientific societies and committees focused on dermatology, including serving as president of the Wound Healing Society. The author of more than 350 publications and 70 books and book chapters, Dr. Falanga has received more than \$35 million in National Institutes of Health grants since 1990.



Chair of OB/GYN

Aviva Lee-Parritz, MD, has been appointed chair of the BUSM Department of Obstetrics & Gynecology and chief of obstetrics and gynecology at BMC.

Dr. Lee-Parritz received a BS in Nursing from Columbia University and an MD from Tufts University School of Medicine. She completed a residency in obstetrics and gynecology at Tufts University Affiliated Hospitals, Boston, and a fellowship in maternal-fetal medicine at Brigham and Women's Hospital in

Boston. She was an attending obstetrician-gynecologist at Brigham and Women's Hospital from 1994 until she was recruited to Boston Medical Center in 2003. From 2003 until 2007, she served as the vice chair for obstetrics and in 2007 was named vice chair for clinical affairs for the Department of Obstetrics & Gynecology. In 2004, she was appointed program director of the Obstetrics & Gynecology Residency Training Program at BMC and became medical director of the BMC OB/GYN ambulatory practice in 2006.

Dr. Lee-Parritz is a fellow of the Society for Maternal-Fetal Medicine and of the American Congress of Obstetricians and Gynecologists. She is currently serving as president of the Obstetrical Society of Boston.

Deeply committed to mentoring residents and junior faculty, she has received numerous awards for outstanding teaching, including the 2011 American Congress of Obstetricians and Gynecologists District 1 Mentor of the Year Award and the 2011 Council on Resident Education in Obstetrics and Gynecology National Faculty Teaching Award. She is also committed to excellence and leadership throughout BMC and BUSM. She chairs the BUSM Discipline Oversight Committee and serves on the BMC Faculty Practice Foundation Clinical Operations Committee as well as the BMC Graduate Medical Education Committee.

Her research interests include diabetes in pregnancy, cervical incompetence, and maternal complications in pregnancy. She currently runs a multidisciplinary program for diabetes in pregnancy in conjunction with the Division of Endocrinology at BMC. An author of numerous peer-reviewed articles, chapters, and abstracts, she is also a member of the Boston Public Health Commission's Task Force on Improved Perinatal Clinical Care and the Massachusetts Department of Public Health Work Group on Gestational Diabetes Guidelines.



Vice Chair of Surgery

David McAneny, MD, associate professor of surgery at BUSM and associate chair for clinical quality and safety at BMC, has been named vice chair of the department of surgery at BUSM and BMC. In this role, he will serve as division chief of general surgery and section chief of surgical oncology.

A graduate of Georgetown University School of Medicine, Dr. McAneny completed his residency at Boston City Hospital, now BMC, and a fellowship in gastrointestinal (GI) surgery at the Lahey Hospital & Medical Center.

His research interests include surgical oncology and endocrine and general surgery; he specializes in GI surgery. His surgical expertise is in tumors and other diseases of the endocrine organs, GI tract, pancreas, hepatobiliary system, and spleen. He is experienced in laparoscopic surgery for gallbladder disease, splenectomy, adrenalectomy, bowel resection, gastroesophageal diseases, and tumor staging.

Dr. McAneny received the 2005 Grant V. Rodkey Award from the Massachusetts Medical Society for outstanding contributions to medical education and medical students. He is the 2008 Boston University faculty selection for Alpha Omega Alpha (AOA), as well as the Councilor of the AOA chapter at BUSM. He received the 2008–2009 Erwin F. Hirsch, MD, Teaching Award from the graduating surgery chief residents, the 2010 Stanley L. Robbins Award for Excellence in Teaching, and the 2013 Educator of the Year Award in Clinical Sciences.

He is a member of the Board of Governors of the American College of Surgeons and an active member of the American Association of Endocrine Surgeons, the Society of Surgical Oncology, the New England Surgical Society, and the Boston Surgical Society. Dr. McAneny served as past president of the medical-dental staff at BMC and the Massachusetts Chapter of the American College of Surgeons and was the former Massachusetts state chairman of the Commission on Cancer.

JOEL ALPERT, MD, JOINS DEAN'S ADVISORY BOARD

Joel Alpert, MD, former professor and chair of the BUSM Department of Pediatrics and current assistant dean for student affairs, is the newest member of the BUSM Dean's Advisory Board (DAB).

DAB members serve three-year, renewable terms actively participating in medical school strategic planning and external relations initiatives. They are leaders in medicine, technology, business, and other sectors of society. They share a passion for basic science, clinical research, and supporting BUSM. Board members are uniquely positioned to help advance the School and its students, scientists, and clinicians.

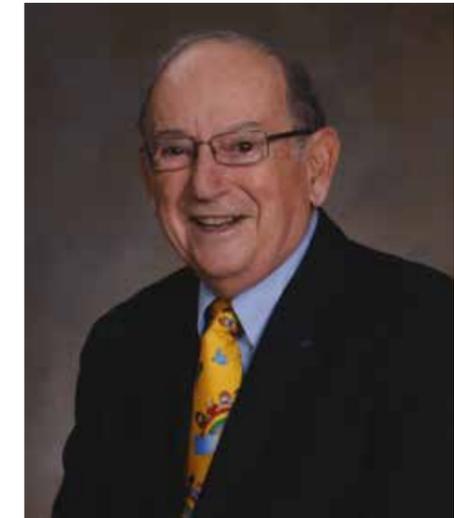
"The Dean's Advisory Board offers those of us who have a long-standing relationship with Boston University School of Medicine the opportunity to provide Dean Antman with advice on issues of importance to the School," says Alpert. "My 42 years at BUSM have been both a joy and a privilege. I trust that my experience and knowledge, especially of pediatrics, will allow me to continue to be a valuable contributor to our medical school community."

"I have enormous admiration for what the School of Medicine represents historically including, from its inception, the admission of women and minorities, as well as the School's outstanding educational program that prepares students for careers in private practice and academic medicine. The School's excellence today is evident in the wonderfully diverse student body and outstanding faculty under the incredible leadership of Dean Antman and the people around her."

A graduate of Yale College and Harvard Medical School, Dr. Alpert completed his residency at Boston Children's Hospital and joined the Harvard faculty in 1961. He became professor and chair of the Department of Pediatrics at Boston University School of Medicine and Boston City Hospital in 1972. Under his leadership, the department thrived. He pioneered pediatric primary care training, including continuity clinic sites at community health centers and the development of a curriculum that emphasized child development, advocacy, and community care. BUSM's

pediatric resident training in primary care for health centers was among the first in the United States.

Dr. Alpert served as president of the American Academy of Pediatrics (AAP), where he received the AAP Job Lewis Smith Award in Community Pediatrics in 1994. He also served as president of the Ambulatory Pediatric Association (APA) and received the APA George Armstrong Award in 1992, the APA Lifetime Career Achievement Award in 2000, and the APA Public Policy and Advocacy Award in 2002. In 1992, the Massachusetts Poison Control System presented Dr. Alpert with a Lifetime Achievement Award and in 1998, he received the prestigious Pew Foundation Award for Achievement in Primary Care—Education.



"My 42 years at BUSM have been both a joy and a privilege. I trust that my experience and knowledge, especially of pediatrics, will allow me to continue to be a valuable contributor to our medical school community."

A member of the Institute of Medicine of the National Academy of Sciences (IOM), Dr. Alpert served on the IOM Governing Council and was the pediatric clinician on the IOM Task Force on the Future of Primary Care. He is a member of the Society for Pediatric Research, Alpha Omega Alpha (Boston University), and the American Pediatric Society, and an Honorary Fellow of the Royal College of Paediatrics and Child Health (London, UK).

He has authored numerous publications, including *The Education of Physicians for Primary Care* (1974), which included the definition of primary care adopted by the Bureau of Health Professions for Title VII training in general medicine, family medicine, and pediatrics.

In 2000, Dr. Alpert and his wife Barbara established the Joel and Barbara Alpert Professorship in Pediatrics at BUSM with the

support of the Alpert family, the Department of Pediatrics, and their colleagues and friends. The professorship is held by the chair of the Department of Pediatrics. The first incumbent was Barry Zuckerman, MD, from 2000 to 2013. Robert Vinci, MD, was installed as the second Alpert Professor in June. (See page 8.)

The Alperets also established the Children of the City Fund at Boston Medical Center in 2000 to support early-career pediatric researchers who study issues of importance to inner-city children served by the hospital. The more than \$800,000 disbursed by the fund has supported 127 projects, which Alpert believes has resulted in more than \$20 million of additional research funding to help children.

A graduate of Connecticut College, Barbara Alpert received her MPH in the first graduating class of the BU School of Public Health. For more than 20 years, she was the coordinator for the Boston City Hospital, now BMC, Department of Medicine's continuing medical education programs and medical student teaching program. The Alperets have three children including son Mark, who is on staff in the BUMC facilities department, and eight grandchildren.

"Dr. Alpert's distinguished career as a leader in the field of pediatrics and his experience in academic medicine at the School of Medicine is a tremendous resource that as a member of the Dean's Advisory Board will help advance the School's goals and initiatives," says Dean Karen Antman, MD. "We are exceedingly pleased that he has joined the board offering the opportunity to further utilize his expertise."

Robert Vinci Installed as Alpert Professor of Pediatrics

On June 12, the School of Medicine installed Robert Vinci, MD, as the incumbent Joel and Barbara Alpert Professor of Pediatrics in a ceremony attended by more than 200 people. Speakers included Dean Karen Antman, MD, Dr. Barbara Philipp, Dr. Frederick H. Lovejoy, Mrs. Barbara Alpert, and Dr. Joel Alpert.

For the past 20 years, Vinci served as vice chair and clinical chief of the Department of Pediatrics, providing leadership for the significant expansion of pediatric clinical services. His central role in a number of initiatives reflects his commitment to the community and patients. He cofounded the Kids Fund at Boston Medical Center (BMC), which provides assistance to meet children's most basic needs and gives them a foundation for a healthy and bright future. He also led the campaign to establish a window-fall prevention program for Boston children. In partnership with the Massachusetts Department of Public Health, he established the Massachusetts Emergency Medical Services Program for Children, which created training protocols and guidelines for children in the statewide Emergency Medical Services system.

An innovative leader in medical residency education throughout his career, he founded the fellowship program in Pediatric Emergency Medicine on the Medical Campus in 1988 and has directed pediatric residency training at BMC since 1989. In 1996, along with Frederick H. Lovejoy, MD, Vinci established the Boston Combined Residency Program in Pediatrics at BMC and Boston Children's Hospital, one of the nation's leading pediatric residency programs. He has also championed research activities, global health training, and flexible training opportunities for pediatric residents.

Vinci received his medical degree from the College of Medicine and Dentistry-Rutgers Medical School, now known as the Robert Wood Johnson Medical School. He completed his pediatric residency at Boston City Hospital (now BMC), serving as chief resident in 1983. He has authored more than 60 peer-reviewed papers and book chapters on the topics of pediatric emergency medicine and pediatric education.

"Barbara and I are very proud that our former student, present colleague, and friend Bob Vinci is now the Joel and Barbara Alpert Professor of Pediatrics," says Dr. Alpert. "Bob



Debra and Robert Vinci with Joel and Barbara Alpert

is extremely well prepared to lead the department at a challenging time. He is an inspirational leader, a motivator of others, and well respected and admired both within our BUSM community and nationally. He is especially skilled at developing partnerships with other institutions at a time when collaboration with others is as important as ever.

"I am confident that the Vinci-led pediatric department will continue its groundbreaking teaching of medical students, pediatric residents, and fellows with its emphasis on advocacy and primary care and the support of a committed and creative pediatric faculty carrying out research and delivering services which directly benefit our BMC community."

BUSM on the Road

This past year was a busy one for Dean Karen Antman, MD, who was the featured speaker at Boston University events in Dallas, TX, Scottsdale, AZ, and Chicago, IL, where her talk, "Routine Checkup: What to Expect in US Healthcare in 2013" sparked conversations among graduates from BU's 16 schools and colleges.



From left: Guy Mintz (CAS'80, MED'84), Ilsa Mintz, Dean Karen Antman, MD, Thomas Dowling Jr. (MED'81), George Hines (MED'69), Jean Ramsey (MED'90, SPH'08), Nancy Roberson Jasper (MED'84), David DiChiara (CAS'80, MED'84), and Lenore Brancato (MED'84).

Dean Antman also attended School of Medicine events hosted by graduates and parents around the country. Regional gatherings are opportunities for alumni and parents to connect with each other and strengthen their relationships with the School of Medicine. Thank you to the alumni and parents who graciously hosted us this past year. We look forward to holding more of these events in the future.



From left: Kathy Cohen, Dean Karen Antman, MD, Ryan Cohen (MED'16), John Cohen, Jason Cohen, and Debi Cohen.

Biomedical Forensic Sciences's Kayleigh Rowan Receives National Scholarship Award

The J. Edgar Hoover Foundation's inaugural Cartha "Deke" DeLoach Forensic Scholarship was awarded to Kayleigh Rowan, a student in the Division of Graduate Medical Sciences Biomedical Forensic Sciences program. The \$5,000 scholarship was established in memory of Cartha DeLoach, chairman emeritus of the Hoover Foundation, which offers scholarships to students studying criminal justice or forensics. The foundation selects institutions with accredited forensic science programs for scholarship consideration; once the School is selected, its faculty nominates a student to apply for the award.

"The Biomedical Forensic Sciences program is proud that Kayleigh has received this national award, which will enable her to further develop novel forensic DNA methodologies," says Catherine Grgicak, PhD, BUSM assistant professor of biomedical forensic sciences. "She is one of the best students I have ever worked with. Her abilities are excellent and her research data is spectacular. Most students take 8 to 10 months to finish a master's-level project; she finished one project in four months, is now finishing a second project, and has volunteered to do a third. Her dedication to forensic research is amazing."

Currently in her second year of the forensics program, Rowan is concentrating in



Kayleigh Rowan receives the Cartha "Deke" DeLoach Forensic Scholarship from William Branon, chairman of the board and director of the J. Edgar Hoover Foundation, in a ceremony at the School of Medicine on August 30.

DNA analysis. A graduate of Northeastern University with a bachelor's degree in chemistry and minors in criminal justice and biology, she plans on a career in a crime laboratory.

Her research focuses on understanding the uncertainty in analytical measurement associated with forensic DNA processing; she is studying which factor(s) contribute most to the variation observed between different DNA samples. The results will be used to provide instructions on how to calibrate and utilize software being developed in collaboration with MIT and Rutgers University to assist in complex, low-level DNA mixture interpretation.

"I am also developing a computer model of the forensic DNA process to identify and characterize sources of error focusing on sample preparation methods, as well as

working on developing a biosensor that uses a gold disk electrode for the quantification of DNA," says Rowan. "Quantifying DNA is a necessary step before analysis can occur. Current practice, using a method called quantitative PCR, has a high error rate associated with it, which can affect downstream processes. The biosensor would eliminate the need for PCR at this step, decreasing error. Additionally, the biosensor would be able to provide information about the quality of the DNA, namely if it is degraded. This can assist an analyst in making decisions about how to process a sample."

According to Grgicak, Rowan's work is fundamental to understanding the error associated with everyday processing of DNA samples. "Eventually, what we as a group want to do is to develop a method to calculate or determine the probability that a certain number of contributors are part of a biological stain," explains Grgicak. "Currently, it is very difficult to make that assessment. Kayleigh has been able to help us pinpoint where we need to focus our energies in order to minimize that error."

"I chose BU because of opportunities available to me through the Biomedical Forensic Sciences program and Boston is a great city," says Rowan, who hails from outside Philadelphia. "I have had great experiences and my professors are excellent."

"I am very honored to have been both nominated by my professors and selected by the J. Edgar Hoover Foundation to receive the Cartha 'Deke' DeLoach Forensic Scholarship. This award will support my coursework and research as I complete my master's degree."

Physician Assistant Program Receives Accreditation

The Accreditation Review Commission on Education for the Physician Assistant Inc. has approved the BU School of Medicine Physician Assistant Program for provisional accreditation, which is granted to programs that have not yet enrolled students but have demonstrated preparedness to initiate a program in accordance with accreditation standards.

The Physician Assistant (PA) profession began in 1965 at Duke University and was developed to address the primary care shortage in rural and underserved areas. Physician assistants practice medicine with physician supervision. The profession now includes medical providers in a variety of health care delivery settings and in virtually all medical and surgical specialties. According to the US Bureau of Labor Statistics, it is among

the fastest growing professions, with a 30 percent expected increase in PA positions during this decade. There are nearly 84,000 physician assistants practicing in the United States with an average salary of \$92,460.

The Boston University School of Medicine Physician Assistant Program will train physician assistants in a novel interprofessional education and practice model. In this first year, up to 28 highly qualified candidates will be accepted; in the following years the program will expand to a class of 36 students. The 28-month (seven-semester) program, housed in the BUSM Division of Graduate Medical Sciences, includes 12 months of traditional lectures and seminar sessions in medical sciences and pathophysiology; the second 16 months provide clinical education in hospitals and clinics with two months dedicated to the thesis proposal. Graduates will receive a Master of Science degree.

For more information, visit www.bu.edu/paprogram.

Faculty Honors and Awards

HONORS

Daniel P. Alford, MD, MPH, (MED'92), BUSM associate professor of medicine and program director for the Addiction Medicine Fellowship, has been elected president of the Association for Medical Education and Research in Substance Abuse (AMERSA), a multidisciplinary organization of health care professionals dedicated to improving education in the care of individuals with substance abuse problems. His two-year term started in November 2013. Alford is assistant dean for Continuing Medical Education and director of the Safe and Competent Opioid Prescribing Education Program at BUSM, and medical director of the Office-Based Opioid Treatment Program at BMC.

Alik Farber, MD, BUSM associate professor of surgery and radiology and chief of the Division of Vascular & Endovascular Surgery at BMC, was elected a distinguished fellow of the Society for Vascular Surgery (SVS). Farber is medical director of the Catheterization & Angiography Laboratories and codirector of the Vascular Noninvasive Laboratory at BMC, and director of a fourth-year medical school elective designed for medical students preparing to focus on surgery for their internships. SVS is a not-for-profit professional medical society that seeks to advance excellence and innovation in vascular health through education, advocacy, research, and public awareness.

Ali Guerhazi, MD, PhD, professor of radiology, director of the Quantitative Imaging Center at BUSM, and section chief of musculoskeletal imaging at BMC, was

appointed deputy editor of the journal *Radiology* editorial board by the Radiological Society of North America (RSNA). Guerhazi is the first faculty member from either institution appointed to this role and will also serve as a member of the Margulis Award for Scientific Excellence Nominating Committee. *Radiology* is a leading peer-reviewed journal devoted to clinical radiology and allied sciences published by the RSNA.

Terence M. Keane, PhD, professor of psychiatry and assistant dean for research at BUSM, received the Distinguished Scientific Contributions to Clinical Psychology Award from the American Psychological Association presented at the annual conference of the Society for Clinical Psychology, the largest group of clinical psychologists in the world. The award recognizes his lifetime theoretical and empirical contributions to the field of clinical psychology. Keane is associate chief of staff for research and development at VA Boston Healthcare System and director of the National Center for Posttraumatic Stress Disorder's Behavioral Science Division.

Robert Sege, MD, PhD, BUSM professor of pediatrics and chief of the Division of Family & Child Advocacy and medical director of the Child Protection Team at BMC, has been named a senior fellow of the Center for the Study of Social Policy (CSSP), which works with state and federal policy makers and communities across the country focusing on public policy, research, and technical assistance. CSSP promotes policies that improve the lives of children and their families and works to achieve equity for those too often

left behind. Fellows are recognized as distinguished figures in their fields who work with staff on special projects that help accomplish the organization's priorities.

Thomas Perls, MD, MPH, professor of medicine and a geriatrician at BMC, was honored with the Ewald W. Busse Research Award. One of the most prestigious in the field of gerontological research, the award is given every four years in conjunction with the World Congress of Gerontology and Geriatrics and recognizes the achievements of late junior or mid-career scientists, encouraging their continued contributions to aging research.

Benjamin Wolozin, MD, PhD, professor of pharmacology and neurology, was named chair of the National Institutes of Health Cellular and Molecular Biology of Neurodegeneration Study Section. Wolozin also serves as principal investigator of the Laboratory of Neurodegeneration at BUSM and is affiliated with Boston University's Alzheimer's Disease Center, as well as the Parkinson's Disease & Movement Disorders Center. He is also a member of several Department of Medicine affinity research groups including calcium, mitochondria, and protein trafficking.

AWARDS

David Harris, MD, PhD, professor and chair of biochemistry and **Benjamin Wolozin, MD, PhD**, professor of pharmacology and neurology, have received Massachusetts Neuroscience Consortium (MNC) Awards totaling \$500,000 to support research exploring new therapeutic targets for Alzheimer's disease. Harris is developing a novel approach to the therapy of the disease based on targeting a newly recognized molecular pathway responsible for neurodegeneration. His BUSM laboratory investigates the molecular and cellular mechanisms underlying two classes of human neurodegenerative disorders: prion diseases and Alzheimer's, which are part of a larger group of neurodegenerative disorders including



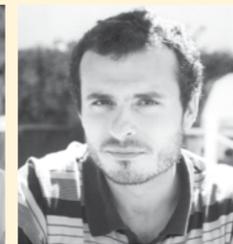
Thomas Perls, MD, MPH



Benjamin Wolozin, MD, PhD



David Harris, MD, PhD



Mikel Garcia-Marcos, PhD



Anurag Singh, PhD



Lee Wetzler, MD

Parkinson's, Huntington's, and several others. Wolozin is developing compounds that inhibit aggregation and toxicity caused by TDP-43, a protein that forms aggregates in Alzheimer's as well as other diseases, such as amyotrophic lateral sclerosis and frontotemporal dementia. He is known for his Alzheimer's research, which focuses on the role of cholesterol and investigating mechanisms in which statins may impact the pathophysiology of the disease.

Comprised of six pharmaceutical companies that have joined together to identify new targets in neuroscience, MNC funds research of an array of diseases to bring patients and their families closer to a cure for certain neurodegenerative diseases.

Mikel Garcia-Marcos, PhD, assistant professor of biochemistry, has received a four-year, \$650,000 Research Scholar Award from the American Cancer Society to fund his research on molecular mechanisms and validation of a new target in cancer. Garcia-Marcos has found a protein called GIV/Girdin which is aberrantly overexpressed in aggressive cancers; he believes that this overexpression results in hyperamplification of signaling cascades that promote metastasis. Specifically, GIV/Girdin activates a critical group of signaling molecules

(G proteins) via a novel and unconventional mechanism. His goal is to dissect how this mechanism is regulated at the molecular level to control the fate of tumor cells and cancer progression toward metastasis.

Anurag Singh, PhD, assistant professor of pharmacology and experimental therapeutics, has received an American Lung Association (ALA) Lung Cancer Discovery Grant of \$100,000 per year for up to two years to expand his research on targeted therapies for drug-resistant cancers. The grant is the largest amount the ALA provides and is only given to two recipients annually. The highly competitive award recognizes investigators focused on developing innovative medical treatments, advancing current treatment options, or finding a cure for lung cancer through clinical, laboratory, epidemiological, or other kinds of research. Singh's lab studies global mechanisms that contribute to oncogene-driven cancer progression, focusing mainly on lung, pancreatic, and colorectal cancers. The lab is particularly focused on the KRAS oncogene, which is mutated in one-third of lung cancers. He will use the grant for research on strategies to clinically manage drug-resistant KRAS-mutant lung cancers, which are often

found in patients with a history of cigarette smoking. Singh is a researcher in the BU/Boston Medical Center Cancer Center and the Division of Hematology & Medical Oncology.

Lee Wetzler, MD, associate program director for research in the section of infectious diseases and an attending physician in the section of infectious diseases in the Department of Medicine at BMC, was awarded a four-year, \$2.35 million grant from the National Institutes of Health (NIH) to study the development of a gonococcal vaccine. The goal of this work, which is being done in collaboration with Scott Gray-Owen, PhD, at the University of Toronto, is to develop a new model for gonococcal vaccine evaluation and prioritize the feasibility of vaccine candidates to guide future research. Wetzler is a professor of medicine and associate professor of microbiology at BUSM. Increasing antibiotic resistance has made the development of a vaccine for this disease vital and the Centers for Disease Control now recommends only one class of antibiotics to treat gonorrhea due to antibiotic resistance in the previous alternative treatment options. Wetzler and his team investigate innate and adaptive immunity primarily in regard to vaccine development.

In Memoriam

Lewis Weintraub, MD, a hematologist/oncologist at Boston Medical Center (BMC) and professor of medicine at Boston University School of Medicine (BUSM), on August 18, at the West Roxbury VA Medical Center in the company of his wife Joan and sons Dan and Jon.

The recipient of the 2011 Jerome Klein Award for Physician Excellence at BMC, Dr. Weintraub was a BUSM faculty member and BMC attending hematologist for more than 40 years. He served as chief of hematology from 1977 until 2003, continuing on the faculty as leading hematologist and hematology teacher.

He attended Dartmouth College and Harvard Medical School, and trained in



medicine at the Hospital of the University of Pennsylvania and the University of Michigan, and then in hematology at Mount Sinai Hospital. In the 1960s, he served as assistant

chief of hematology at Walter Reed Army Hospital in Washington, DC, where he carried out research on iron metabolism. He returned to Boston in 1965 as a member of the hematology faculty at Tufts Medical School and New England Medical Center until he was

recruited to BUSM and University Hospital, now BMC, in 1972.

Dr. Weintraub authored more than 75 papers and reviews covering topics including hemochromatosis, myelofibrosis, anemia, and thrombocytopenia. He was a member of the Evans Medical Foundation Board and the Cancer Care, Transfusion, and Pharmacy Committees at BMC. He was the first director of the BUSM II Biology of Disease course in hematology.

The Jerome Klein Award for Physician Excellence was presented to Dr. Weintraub in recognition of his clinical and research excellence, leadership, and commitment to education and mentoring. His dedication to his patients and his contributions to generations of trainees in hematology were unparalleled.



Daniel P. Alford, MD, MPH



Alik Farber, MD



Ali Guerhazi, MD, PhD



Terence M. Keane, PhD



Robert Sege, MD, PhD

Ways of Giving:

Alumni Share Time, Expertise, and Commitment

“Boston University School of Medicine has given me so much more than I have ever given the School, but that doesn’t stop me from trying so that other young men and women can have the same experience and great training I had, which will prompt them to give back to the School and to their communities.”

—Kenneth Simons (MED’80)

The life is a series of connections, Boston University School of Medicine alumni are living the engaged life. The School’s alumni are not only committed physicians and scientists, they universally and strongly believe in the concept of giving back to the communities, institutions, and people who have had an impact on them and on the medical profession. ■ Their giving back includes generous financial support for the School, from endowing professorships and scholarships to capital projects such as the Medical Student Residence. Just as beneficial to BUSM is the commitment many alumni make to share their time, effort, and expertise with the School’s leadership, faculty, and students. ■ The seven graduates featured here represent a tradition that goes back to 1874, when alumni organized an association to advance the School’s mission. Each subsequent generation has demonstrated great loyalty and devotion to BUSM’s future physicians. Today’s students and recent graduates have an outstanding legacy to uphold.



Mary Jane England (MED’64)
Member, Dean’s Advisory Board

Mary Jane England loves BU. “I am BU all the way, from my medical education to my residency to my current work with the School of Public Health,” she says.

A nationally recognized leader in health policy, mental health, and substance use, England, a graduate of the BUSM Class of 1964, has been a member of BUSM’s Dean’s Advisory Board (DAB) since 1989, when it was the Board of Visitors. A child psychiatrist, she is professor and chair ad interim of the Department of Community Health Sciences at the Boston University School of Public Health.

With her leadership roles in public social and mental health service, education administration, and private health insurance and employer and employee benefits, England has proven to be an important and valued voice on the DAB since she was asked to join by Aram Chobanian, MD, then dean of the School of Medicine. “I have always been interested in access to health care, and I was honored to join the board,” says England.

“It isn’t simply the financing of health care; it is the delivery system that has added to the need for reform. We need to find ways to train our physicians to practice medicine more efficiently and in teams. The challenge with health care changing is fitting our medical education to meet these changes. We don’t want to dump our medical students into a broken system.”

England served as the first commissioner of the Department of Social Services in Massachusetts and associate dean and director of the Lucius N. Littauer Master in Public Administration Program at the John F. Kennedy School of Government at Harvard University from 1983 to 1987. She was vice president of Prudential Insurance Company and served as CEO of the Washington Business Group on Health

from 1990 to 2001, bringing informed perspective to bear on health care reform.

As president of Regis College in Weston, MA (which is also her alma mater; she graduated in 1959), she oversaw the college’s transformation to coeducation, built its graduate programs, and developed curricula to serve the needs of diverse student populations through interdisciplinary pathways leading to both graduate and undergraduate degrees.

England credits the support of strong female role models at BUSM with influencing her choice to become a psychiatrist, and the deep bonds among a cohort of her female classmates for her strong feelings for the School.

She considers BUSM to be one of the best medical schools in the country, with a mission that reflects her values. “The School is great and remains committed to women and minorities as well as to the public sector through its affiliation with Boston Medical Center,” she explains. “So many medical schools don’t have that kind of connection.”

She was especially keen to work with Dean Karen Antman, MD, on initiatives to mitigate the high cost of a medical education. “I said one of the things that would make a big difference was housing, so she put me on a committee to develop plans for living space for students,” she says.

“When I was a student here we could get cheap housing. I lived in Worcester Square and then in the south block with the nursing students drawing blood for room and board. But now that’s not possible, so our students have been forced to live farther away and waste so much time commuting. Dr. Antman deserves great credit for the push to build the Medical Student Residence. My major thrust now on the board is getting another residence built to house more students.”

VOLUNTEER FACILITATORS FOR BUSM COURSES—INTRODUCTION TO CLINICAL MEDICINE (ICM) AND INTEGRATED PROBLEMS (IP)

ICM and IP are required courses for first- and second-year medical students. ICM teaches the components of physical examination and how to do a complete history and physical exam. The IP course focuses on integrating basic science material with clinical application. Clinical case presentation offers students the opportunity to develop hypotheses and research aspects of the cases. The courses are taught by volunteer faculty, many of whom are alumni of the School of Medicine.



Donald Grande (MED'73)
Clinical Faculty, Dermatology

Academic medicine is familiar turf to Donald Grande, a dermatologist in private practice and Class of 1973 BUSM graduate. A clinical faculty member in the Department of Dermatology, Grande has taught at Tufts Medical Center in Boston and Lahey Hospital & Medical Center in Burlington, MA. An expert in Mohs micrographic surgery, he has had a steady stream of BUSM dermatology surgical fellows train in his practice. Volunteering his time to teach BUSM medical students ICM and IP courses offers him another opportunity to have

an impact on the practice of medicine and demonstrate his gratitude to BUSM.

"I was in academic medicine for a long time, so teaching is somewhat second nature to me. I love what I do, and I couldn't do it if I didn't get my education here," he says. "I have this notion that you need to give something back."

A retired colonel in the US Air Force who as a reservist regularly volunteered at clinics for military members and their families, Grande credits Peter Pochi, MD '55 and the former BUSM Herbert Mescon Professor of Dermatology, and Barry Manuel, MD '58, associate dean for continuing medical education and former executive director of the BUSM Alumni Association, for a good portion of his strong connection to the School. He has served as BUSM alumni phonathon director for 15 years, encouraging his fellow alumni to support the School and as a past president of the BUSM Alumni Association.

Grande's son found a fulfilling and successful career as an officer and medical administrator with the US Navy through his BU School of Public Health degree. "My son got great training at BU and his degree put him on the right path,"

he explains. "This is another reason why I feel I owe BU."

Grande hosts first- and second-year students in his practice in both the fall and spring semesters, giving them the chance to attend patient appointments and surgical procedures. "We try to give them as many opportunities as possible to have hands-on experience with patients, and our physician's assistant is wonderful with the students. While we don't palpate abdomens in dermatology, very often we do get melanoma patients who need a workup. The patient population I have is very receptive to having students in the room."

Grande also finds it extremely satisfying when one of the students becomes interested in dermatology and eventually succeeds in acquiring a residency in the field. "I had a wonderful student, Dan Philipedes, a genuine hardworking guy who came as a first-year student then came back as a second. We stayed in touch and now he is in a dermatology residency at Dartmouth-Hitchcock. To see a kid like Dan come through and go all the way and get a coveted spot is tremendous."



David Bailen (MED'67)
Retired Clinical Faculty, Internal Medicine

"Volunteering gives me a means of expressing my gratitude to the medical school," David Bailen explains. "I remain loyal to BU today because I was provided the tools to have a lifetime career in internal medicine that was stimulating, enjoyable, and rewarding."

Now retired, Bailen was a clinical associate professor of medicine at BUSM and an internist on staff at BMC. He has been an active alumnus who served as president of the BUSM Alumni Association at the time of his 25th reunion and was a faculty advisor to the BUSM chapter of Alpha Omega Alpha. In

the past 25 years, he has probably attended nearly every alumni phonathon to raise funds for the School, but his most rewarding BUSM volunteer activity is as an IP facilitator.

"I volunteer to teach IP because it allows me the opportunity to pass some of my medical knowledge to a new generation of students," he says. "I can serve as a role model for them and keep my medical knowledge up to date. I enjoy getting to know them, and I have been impressed by how much more self-directed they are; by how they have been taught to use differential diagnosis more extensively and to be more intuitive. Also, the abundance of knowledge available to them through technology and the online resources of the Alumni Medical Library is striking."

Bailen strives to infuse students with an enthusiasm for medicine, caring for patients, and the medical school. He also hopes his interactions with students encourages them to become loyal future alumni.

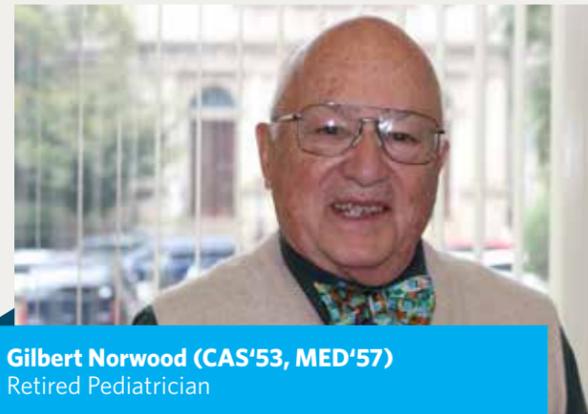
With more than 50 years of experience as a physician, Gilbert Norwood has a lot to teach medical students. He believes that practicing medicine is fun and learning to be a physician should also be fun. A 1953 Phi Beta Kappa graduate of BU and 1957 graduate of BUSM, Norwood is a retired pediatrician who had a private practice in Beverly, MA, and served as chief of pediatrics at Beverly Hospital.

"I had a great experience in medical school," says Norwood.

"Many of our professors were doctors who had written the important medical texts of the time. We had so many of the giants in medicine like Chester Keefer, Louis Weinstein, Robert Wilkins, Arnold Relman, and Stanley Robbins, to name a few. This is a great field that has opened so many doors for me, and I enjoy being a part of making this happen for today's medical students."

While in practice, Norwood taught ICM to BUSM medical students in his office; he is currently an IP facilitator meeting with students for eight weeks each spring and fall to share his expertise and perspective on the practice of medicine. As a volunteer teacher, he provides what he calls a "safe haven" in his class, and to the great delight of the students, brings chocolate chip cookies to each of their meetings.

"Students today have all kinds of technology but my question to them is, 'What are you going to say when you meet your patients?'" says Norwood. "I give them examples of what it is like in practice and



Gilbert Norwood (CAS'53, MED'57)
Retired Pediatrician

what they have to consider in taking care of patients. I worry about the current focus on computers and emphasize that they really have to look at their patients and listen carefully to them."

He works at getting the students to relax and open up about what they like to do outside of class. "One of my students was an artist, and I made sure he brought some of his work into class. I emphasize that they need to take care of themselves and get to know each other because doctors now have to work in teams." He shares the joys of being a pediatrician and reinforces the importance of being connected to patients.

"I don't have huge amounts of money to give the School," says Norwood. "I try to give of myself, and as long as I am able to I want to keep the connection. BU gave me a lot. And teaching the students keeps me active; on my toes. It keeps my mind in medicine. It is such a pleasure when a student I had in their first or second year stops me in the hall and tells me what he or she is doing and their plans for residency."

Norwood ends each course by giving each student a gift certificate to Barnes & Noble, a suggested reading list, and a photo of the group.



Anna DePold Hohler (CAS'98, MED'98)
Associate Professor of Neurology,
Field Advisor, Faculty Advisor

As a BUSM associate professor of neurology with a research program and assistant dean for academic affairs and director of clinical development, Anna DePold Hohler (CAS'98, MED'98) has a pretty busy schedule. But that doesn't stop her from spending as much time as she can working with students in a variety of capacities. "Having been involved in helping to revamp the neurology clerkship curriculum, I looked for other opportunities to interact with students," notes Hohler. "I volunteer teach for the ICM course and typically have one or two students who work with me in the neurology clinic learning how to perform a neurological exam and generally helping with patients."

In addition to having several students working with her on her research, she is an academic advisor-at-large and a field-specific advisor who guides students interested in going into neurology. For the past three years she has been the faculty advisor to the student interest group in neurology, helping to organize seminars and providing career guidance. She is now the neurology clerkship director at BMC.

A graduate of the Seven-Year Accelerated Medical Program, Hohler's first choice for residency was BU and BMC, however, she had committed to the US Army. "When I completed my neurology residency at the Madigan Army Medical Center in Washington and fulfilled my additional four years of service to the military, my first impulse was to come back here," she says. "Fortunately, I was able to do a fellowship in movement disorders, working with my former BUSM mentors Samuel Elias and Marie St. Hillaire, and was recruited to the neurology department when I finished it.

"Volunteering benefits everyone," she says. "Students get a richer early clinical experience through the ICM course. When I take on medical students interested in research and teach them how to do IRB (internal review board) work, write papers, and submit them, it gives them greater confidence.

"I think when we engage in these kinds of activities with students we offer a valuable gift, and I feel very rewarded when they say they are really enjoying medical school or want to become a neurologist.

"BUSM students today are interested in more than academic pursuits. They have a great social and cultural awareness and are inspiring in that way. They want to be well rounded and give back to the community. They have been such an inspiration to me and my colleagues that in the Department of Neurology we are developing a health care delivery program in Haiti."

Hohler credits the Neurology Department chair, Carlos Kase, MD, for allowing her and others in the department the flexibility to give time to students. "It is great that chairs have this understanding. Considering the challenges of the changes in health care delivery, we need to step back a bit and take the time with our students now to secure the future of our specialty and of medicine."



David DiChiara (CAS'80, MED'84) BUSM OB/GYN Third-Year Clerkship Director, BUSM Alumni Association, Reunion Organizer

Antman describe what BUSM is today I was very proud."

Today, DiChiara, a director on the Executive Committee of the BUSM Alumni Association and phonathon volunteer, is helping to prepare his class for their 30th reunion. An obstetrician-gynecologist, he is chief of obstetrics and gynecology at Beverly Hospital in Beverly, MA, and medical director of Essex County OB/GYN Associates. He also serves as clinical director of a satellite third-year OB/GYN

grassroots effort to get the word out and get alumni back into the fold."

A magna cum laude graduate of BU, DiChiara was a Modular Medical Integrated Curriculum (MMEDIC) student. The MMEDIC pathway allows BU students to be admitted to the School of Medicine after their second year of undergraduate work, allowing them to take medical school classes during the last two years of undergraduate education. "I was very fortunate to have gone to BUSM and to have been an MMEDIC student," he says. "I got into medical school at a time when many of my premed classmates did not. I had a great education and a foundation in giving back to the community because of the mission at BUSM. I feel that is something that has molded my career and my life.

"I love feeling connected to BUSM. I love hearing what the new class is like and what the issues are on the horizon. I love the opportunity to lend my experience to the table. I guess that I feel it's time to give something back to the institution and program that launched my career. I have a very soft spot in my heart for BUSM and the experience that I had."

It wasn't until the approach of his 25th reunion that David DiChiara became nostalgic about BUSM. "I was not the class representative, nor did I know a lot of people in my class, but for some reason, after 25 years, and realizing what a great education I received, I became very interested in getting other alumni from my class together," he recalls. "I had also attended a few Dean's Club receptions, and when I listened to Dr.

rotation for medical students. In 2012, he received a teaching award from BUSM for his work with third-year medical students.

"I feel that I would like to contribute to the School by raising awareness of what a great place BUSM is today. Touring the campus, seeing the new student residence, and hearing about all the research that is going on has inspired me to get the word out to other alums who have not been involved in the past. I think it takes a

When Ken Simons graduated from BUSM in 1980, he received the Alumni Association Student Service Award for his volunteer efforts during his student years—and he hasn't stopped volunteering yet. A past president of the BUSM Alumni Association, he is currently a director of the group and continues his efforts as the key reunion organizer and class fundraiser.

"Alumni phonathons and reunions keep me involved," he says. "When I was a student phonathon volunteer, I realized that often, after a phone call updating alumni on what's going on at the School, they would donate. I said, 'wow, this really works.'"

As a student, he also knew someone in the class ahead of him whom he believes was the first in the history of the School to owe more than \$50,000 in education debt. He and other concerned classmates spearheaded a fundraising campaign that established a scholarship fund in honor of their 40th reunion.

"We were a very close-knit class and unfortunately two of our classmates died in the first

two years," recalls Simons. "The faculty and administrative leadership at the time were just some amazing people who had a great impact on all of our lives. They had time for students—not just those with problems—which fostered a kind of family atmosphere."

An ophthalmologist, Simons is keenly aware of how important alumni support is to medical education. He is currently interim senior associate dean for academic affairs at the Medical College of Wisconsin (MCW) as well as associate dean for graduate medical education and accreditation and executive director of affiliated hospitals at MCW. A professor of ophthalmology, he serves as director of ophthalmic pathology and chief of comprehensive ophthalmology at the Eye Institute of the MCW.

"Academic institutions last longer than any one leadership team, and I believe that what alumni give is their passion for the institution where they trained," says Simons. "Alumni carry on the institution's tradition. A good educational experience, and we had an outstanding one, makes you want to help keep that tradition going."



Kenneth Simons (MED'80) BUSM Alumni Association Past President, BUSM Alumni Association Director, Reunion Organizer

A Conversation with Associate Dean for Alumni Affairs Jean Ramsey (MED'90, SPH'08)

What was your experience like as a student here?

I felt a lot of support from my fellow students, the faculty, and administration. I remember being amazed at what incredible teachers there were at BUSM. I specifically remember Drs. Hoyt and McNary. Dr. Hoyt did a demonstration with balloons to help us understand complicated interwoven human embryology. I imagine now such a demonstration can be done digitally, but he was creative and this demonstration reflected his commitment to teaching and to the students, which continues to this day.

Dr. McNary told us that we would have to work hard, but that we also needed to take time for ourselves; he called that "lollipops." I remember we celebrated his birthday in the Hiebert Lounge. In recognition of his commitment to the students, I wrote a song to the tune of *Oklahoma!* and a group of us sang it at the piano.

You were active in volunteering as a student. Why did you volunteer given all of the work involved in being a medical student?

I participated in our student organization, the Student Committee on Medical School Affairs (SCOMSA), along with other activities. I have always felt like I needed to give back to try to improve things for those who came after me. My mother used to stress this; that we had a responsibility to leave things a little better for those who would come after us. Working in student organizations helped me accomplish this at that time.

Why did you join the BUSM faculty?

I was working as a Harvard faculty member when I was recruited to BUSM by the Department of Ophthalmology. When I arrived on campus for the interview, I was quickly reminded that Boston University School of Medicine and BMC were unlike the other institutions where I had worked. The informational brochures on the tables in the waiting room and the leaflets on the bulletin boards that I perused while waiting for my interview were related to serving the underserved and addressing inequities in our health care system. This resonated with me, as this was the primary reason I went into medicine. I felt like BUSM was where I belonged. At my previous job, many would applaud me for my work in the public health arena. While I appreciated this support, clearly I was a fish out of water. Coming back to BUSM I had many colleagues throughout the institution dedicated to serving the underserved, committed to the mission of "Exceptional Care Without Exception." I felt like I had come home!

When the position of associate dean for alumni affairs became available, why did you decide to apply for it?

I felt like I owed so much to BUSM. I was thrilled to be back on campus, taking care of patients, and working in the broader public health



care arena. I felt so connected and grateful to BUSM. A position that would allow me to develop opportunities for other alums to reconnect and engage with BUSM was the perfect job for me. It was another opportunity to unabashedly give back, and I was so fortunate to be in the right place at the right time. I am grateful to Dean Antman and to Dr. Manuel for providing me with this opportunity.

If you could summarize them in a few sentences, how would you describe the alumni of BUSM? And please describe current students at BUSM.

Our alumni are busy taking care of patients and making a difference in the world. They are in leadership positions around the country; they are the best and most dedicated of the private practitioners. For the alums I have met, it is not a job, but a profession. They remember vividly the professors and clinicians who changed their lives and they are extremely grateful to BUSM for helping them become the physicians they are today.

As for the current students, I always reassure alumni colleagues that, "We are in good hands!" The alums would be proud of the current students. They are bright and talented—some would say brighter and more talented than we were. They go beyond the lectures, the exams, and the graded expectations. They care about the world and want to make things better. They spend time with the homeless to better understand their situations and their needs. They are interested in improving end-of-life care.

The BUSM Alumni Association supports many of the student organizations on campus. Through this relationship, I have the privilege of talking with the student leaders of these organizations. I am amazed and impressed with their commitment to medicine and to the health care of the population, which is why I know that we are in good hands.

Roberta Apfel (MED'62)

Class Spirit and a Suite Remembrance

Alumna's planned gift will help her class endow a suite in the School of Medicine's new Medical Student Residence in honor of their 50th reunion.

What Dr. Roberta Apfel remembers most from her time at the Boston University School of Medicine are the supportive, close relationships—everyone from the dean to the janitor was invested in the lives of students. “It was a comfortable and supportive place that was very focused on patients and the craft of medicine,” says Dr. Apfel, “and that was very important to me.”

To be sure, a supportive environment didn't mean an easy one: “We worked so hard as medical students that we finally staged a strike to get a 40-hour weekend, because we were working straight through from Friday morning to Sunday night,” she recalls. “I spent the whole winter of my fourth year in the tunnels underneath Boston City Hospital. I hardly saw daylight.”

Those vivid memories and fond feelings for her medical school days have not dimmed. In fact, they've become even sharper over the past decades as Dr. Apfel volunteered, donated, and rekindled relationships with her classmates. Since her 15th reunion, she has been fundraising for BUSM through annual phonathons. “I appreciate the chance to meet current students, stay in touch with my classmates, watch this cohort of peers move through time, and help BU raise money for the School.”

When she became class president for her 25th class reunion, Dr. Apfel built the reunion program around the subject of women in medicine—a particularly fitting theme for BUSM, as the School originated from one of the country's first medical schools for women, the New England Female Medical College. “BU tends to pioneer,” she says, “even though it doesn't get enough credit for



Roberta Apfel, MD '62 and her husband Bennett Simon, MD, at her 50th reunion.

that.” Dr. Apfel herself could be considered a pioneer—she was the first woman to graduate Brandeis University who went on to medical school.

She and her husband Dr. Bennett Simon had been giving to BUSM steadily over the years, but as her 50th reunion drew closer, they thought more seriously about a planned gift. “We retired in 2008, timing things exquisitely so that our savings completely plummeted,” says Dr. Apfel with a chuckle. “A charitable gift annuity seemed like a win-win situation. We could give a gift and still receive some additional income.”

At the same time, the 50th reunion planning committee began discussing the mark they would leave on their alma mater. They decided that their class gift would endow a suite in the new Medical Student Residence.

“I think this new dormitory is a big, big step for BUSM, something that I and a lot of my classmates see the need for,” explains Dr. Apfel. Funds from their charitable gift annuity will also go to housing for medical students. “It will provide housing that's safe, reasonably affordable, and adds to group cohesiveness. These values are emblematic of our positive memories of medical school,” she says. “And that's something worth supporting.”

Alumna Shamim Dahod Named to BU Board of Trustees



Shamim Dahod (CGS'76, CAS'78, MED'87) is one of four new members of the Boston University Board of Trustees. Dahod is a primary care physician and board-certified internist in private practice in Chelmsford, MA. A Lowell General Hospital staff member since 1995, she also serves as a member of the Board of Governors there.

Dahod has been a member of the School of Medicine Dean's Advisory Board since 2004 and the University's Board of Overseers since 2008; she was elected chair in September 2011.

In 2008, she and her husband Ashraf pledged \$10.5 million to the School of Medicine to establish the Shamim and Ashraf Dahod Breast Cancer Research Center. The gift also funds assistant professor and international scholar positions at the center and helped support the construction of the School of Medicine's student residence.

A member of the Dawoodi Bohra, a Shiite Muslim sect, Dahod discussed the role of women in Muslim society in a *U.S. News & World Report* article titled “Muslim Mainstream.”

With her husband, she has cosponsored philanthropic projects, including a state-of-the-art building at Lowell General Hospital; the construction of mosques in Massachusetts and New Jersey; a 280-bed hospital in Mumbai, India; and a medical clinic in Yemen, where physicians from the United States provide pro bono specialty services on a two-week rotating basis.

FEATURE

DOING

That Which Has Never Been Done

*M. Stuart Strong and Charles W. Vaughan,
Pioneering Surgeons*



ne is a woodworker, crafting fine furniture for family and friends. The other is an artist with a penchant for painting portraits. Both are masters of head and neck surgery who share a deep and abiding commitment to caring for patients. ■

M. Stuart Strong and Charles W. Vaughan are world-renowned otolaryngologists who have graced the halls, laboratories, and operating rooms of Boston University School of Medicine and its teaching hospitals for more than half a century. ■ Each in his own right is a consummate physician and gifted teacher. Together, they created the most advanced program for treating patients with conditions of the head and neck and for training succeeding generations of outstanding patient-centered surgeons.

While Strong, professor of otolaryngology, and Vaughan, associate professor of otolaryngology, are retired from clinical practice, their wisdom and visionary work in groundbreaking surgical interventions and treatments are evident in otolaryngology care around the world. Together, they pioneered the use of the carbon dioxide laser in otolaryngology surgery as well as the development and utilization of instruments for microsurgery of the larynx and ear.

“Drs. Strong and Vaughan were very innovative,” says Kenneth Grundfast, MD, BUSM professor and chair of otolaryngology and a former resident of the two doctors. “When I came here to train, the laser was new. There were people coming from all over the US and other countries to learn how to use it. Their work inspired great advances in our field.

“Training with them was really a joy because they were so dedicated to educating the next generation of otolaryngologists. They set high standards. Their energy and time was not used to advance their own reputations; they were totally committed to their patients, residents, and medical students, and that is why we are working to establish an endowed professorship in their names.”

Born in Ireland and educated at Trinity College and University College Dublin School of Physics, Strong came to BUSM in 1952 after completing residencies at the Royal Victoria Eye & Ear Hospital in Dublin, the Royal Infirmary in Edinburgh, and the Lahey Hospital & Medical Center in Boston. By 1956 he was named chair of the Department of Otolaryngology and chief of the Otolaryngology Service at University Hospital (now Boston Medical Center) and served in both positions until 1985. He became director of otolaryngology at Boston City Hospital in 1968, joining the BUSM program with the Tufts program led by Dr. Werner Chasin. Together, they formed the Boston Training Program in Otolaryngology, which lasted for 25 years. Strong was named otolaryngologist-in-chief at Boston Children’s Hospital in 1976, where he served for two years.

Strong grew up on a farm in Kells, Ireland, the youngest of six children. “Because I was dyslexic, my homeschool teacher—my aunt—thought I was uneducable, but I had a photographic memory. I was very good with my hands and could fix anything, and that was helpful on a farm.

“While at Dublin University, I was in a student group run by faculty member Tom Wilson, a magical person and brilliant surgeon,” recalls Strong. “I was planning on being a general surgeon like my older brother, but Wilson was a very handsome man with curly hair; funny; and a yachtsman and painter who wrote the first book on pediatric otolaryngology. I wanted to be like him. He liked a paper that I did, so he suggested I go to the US to finish off my training before returning to work with him, which I never did.”

When Strong came to BU in 1952, he was the only otolaryngologist on staff and there was no residency program in the specialty at the School’s affiliated hospital, Massachusetts Memorial Hospital (later University Hospital), so the surgical residents helped care for his patients.

Vaughan, a graduate of Case Western Reserve University School of Medicine, was in his second year of surgical residency in 1956 at Massachusetts Memorial Hospital, assigned to what was then called an ear, nose, and throat (ENT) rotation. “ENT did not have much



Charles W. Vaughan, MD, left, and M. Stuart Strong, MD. Painting by Dr. Vaughan

appeal at that time,” says Vaughan. “Antibiotics were curing most of the indicators for ENT surgery, except for tonsillectomy, and who wanted to do nothing but T&A’s [tonsils and adenoids] for the rest of one’s life? And yet Dr. Strong’s enthusiasm was infectious. He was a superb role model.”

Strong recalls Vaughan asking for more training in the specialty. “We didn’t have a residency training program. Charlie (Vaughan) said, ‘Why don’t we start one?’ and so we did,” remembers Strong. “I knew a year with me would be more than enough, but there were several great surgeons at Beth Israel and a magnificent teacher at the VA Medical Center that he could train with as well. We put our plan for an otolaryngology residency together and it was approved with Charlie as the first resident.”

Vaughan explains that he “discovered that otolaryngology or head and neck surgery, its present name—is really general practice—medicine, surgery, orthopedics, neurology, neurosurgery, cosmetics, psychiatry, psychology, magic, etc., in all age groups and genders. Although confined to a limited anatomic area, it is an area of great interest to us all because it is concerned with the systems we use to establish and maintain relationships. And it is relationships that provide the fun and pleasure of living. Indeed, they are the fundamental reason, relating with patients, that most of us chose to become doctors.”

Like Strong, Vaughan had good hand-eye coordination which he developed by drawing, modeling, and painting; at age eight he began piano lessons. “The gestalt of surgery was first learned in my father’s factory, a large food processing facility with lots of machinery,” he says. “Starting at age 14, I worked summers in the maintenance department and learned carpentry, plumbing, metal-working, electrical wiring, painting, and the importance of keeping a food plant clean and sanitary just like an OR (operating room) and fixing things and keeping them that way. Just like surgery.”

Strong notes that he had been teaching BU medical students for years when the residency program was formalized in 1957, so there began a steady stream of BUSM graduates who came to train with him after doing their two-year surgical residencies. When Boston City Hospital (BCH) became affiliated with BU, the program served Massachusetts Memorial, BCH, and Boston VA.

It was also in the late 1950s that Strong and Vaughan began collaborating with Geza Jako, an otolaryngologist at the Massachusetts Eye & Ear Infirmary who was designing a laryngoscope and other instruments to advance microsurgical techniques for otolaryngology surgery. The visualization provided by a laryngoscope that could be suspended in position and the magnification provided by the microscope were revolutionary,

enabling utilization of instruments as well as increasing the accuracy of diagnosis of malignancies, the size of tumors, and their effective removal. They were the first to publish research on microsurgery of the larynx.

By 1968, Jako had joined Vaughan and Strong at BU. “Geza was a dreamer and suggested that we take a look at a CO₂ laser his friend Dr. Thomas Polanyi had developed,” says Strong. “He suggested we could use it as a cutting tool. We used the laryngoscope that Geza had designed to see the vocal chords of an animal model through a narrow tube three-fourths of an inch in diameter. The laser could vaporize tissue while significantly reducing bleeding, always a problem in the surgical field. I thought just maybe the laser might have a place in microsurgery.

“Being able to use the laser allowed us to do things in tight quarters we couldn’t do before. We started with small cancers of the vocal chords and then we did major cancers with the laser without doing a tracheotomy. This was a huge step forward.”

“We were very quiet about our research,” recalls Vaughan. “Before any public disclosure, we spent many hours, days, and months discovering what we anatomically could and could not do with the laser, and its effects, both histologically and clinically, on dogs and humans.

“My Triological Society candidate’s thesis detailed more than a year of this work. Dr. Strong’s first laryngeal surgery was performed on a patient with cancer on the edge of his larynx that required laryngectomy. This surgical experience was videoed and the histologic evidence documented. Meticulous recording and documentation of our experiences with the CO₂ laser continued throughout our careers.”

Vaughan assesses their pioneering work: “In laryngeal and other head and neck cancer, the combination of the CO₂ laser and the surgical microscope provides a superb Mohs surgery milieu wherein the only tissue that is removed is that which needs to be removed. Equally important, the same attributes allow very accurate diagnosis of extent of disease, vastly improving treatment planning.”

When asked why he has stayed at BU for more than half a century, he replies, “It has been and continues to be great fun. And perhaps the best of all, the great privilege of working with students, who, like our former resident and now Department Chair Ken Grundfast, continue to think that the student life is wonderful and refuse to leave.”



Left photo: Dr. Strong using the CO₂ laser. Right photo: From left: Drs. Charles W. Vaughan, Geza Jako, Thomas Polanyi, and M. Stuart Strong.

by establishing an endowed professorship in their names. The majority of departments of otolaryngology in the US now have endowed professorships, and this is important. An endowed professorship will add to the prestige of our Otolaryngology Department here at BUSM and will make the department more enticing to candidates when the time comes to recruit the next chair of the Department of Otolaryngology-Head and Neck Surgery.

For the past decade I have had a vision in my mind of being on a podium with Drs. Strong and Vaughan and saying to them in front of their family, friends, former residents, and colleagues that in appreciation of so much that you have given to so many people over so many years, your names will be linked in perpetuity with the Department of Otolaryngology-Head and Neck Surgery at Boston University School of Medicine by the establishment of the Strong-Vaughan Professorship in Otolaryngology-Head and Neck Surgery. I have made my own significant financial contribution to help establish the Strong-Vaughan Professorship, but now I really do need the help of others to make it a reality.

Kenneth Grundfast, MD
Professor and Chair, Department of Otolaryngology-Head and Neck Surgery

For more information on the M. Stuart Strong and Charles W. Vaughan Professorship in Otolaryngology-Head and Neck Surgery or to make a gift, please contact Lawrence Crimmins, Boston University School of Medicine, 72 E. Concord Street, L219, Boston, MA 02218, crimmins@bu.edu, P 617-638-5676, F 617-638-4139, C 857-600-6659, www.bu.edu/supportingbusm.

“As for Dr. Strong, I believe his greatest contribution is his constant concern for the welfare of others and his contagious enthusiasm for the open mind.”

Dr. Grundfast says he continues to be in awe of the monumental contributions to otolaryngology and general medicine made by his mentors. “Once the utility of the laser was demonstrated here in Boston, it was rapidly accepted throughout the US, then in Europe and other countries. There have been many innovations in technology since their early work, including the cochlear implant, robotic surgery, and many microsurgery advances, but the use of the laser in the larynx and in medicine in general was a big leap forward.”

“We did some good things that have stood the test of time,” Strong says. “But I am most proud of having been part of the education and training of so many young people who have gone on to do things we couldn’t have done. Today, Dr. Grundfast is leading a wonderful program. The training is excellent and he carries on what we believed to be important: being caring physicians and surgeons. He has recruited brilliant people with the ethics with which we started.”

At 89, Strong is still good with his hands. Currently, he’s making a coffee table for his oldest grandson who is getting married in the spring, and he flies radio-controlled airplanes.

Dr. Vaughan continues his painting. He teaches at grand rounds for the residents as well as for first-year medical students in their ICM. He has developed a series of videos that demonstrate aspects of professionalism and ethics through interviews with some of the most prominent otolaryngologists in the US as well as residents, family members, and clergy who can help residents better understand the importance of interpersonal and communication skills.

Novel Approach to Create Red Blood Cells, Platelets In Vitro Identified

A study led by BUSM researchers has identified a novel approach to create an unlimited number of human red blood cells and platelets in vitro. In collaboration with the School of Public Health (BUSPH) and Boston Medical Center (BMC), the researchers differentiated induced pluripotent stem (iPS) cells into these cell types, which are typically obtained through blood donations. This finding could potentially reduce the need for blood donations to treat patients requiring blood transfusions and could help researchers examine novel therapeutic targets to treat a variety of conditions, including sickle cell disease.

Published online in the journal *Blood*, the study was led by George J. Murphy, PhD, assistant professor of medicine and codirector of the Center for Regenerative Medicine (CRoM) at BU and BMC, and performed in collaboration with David Sherr, PhD, professor of environmental health at BUSM and BUSPH.

Using this new approach, the team added compounds that modulate the aryl hydrocarbon receptor (AhR) pathway; previous research has shown this pathway to be involved in the promotion of cancer cell development via its interactions with environmental toxins. In this study, the team noted an exponential increase in the production of functional red blood cells and platelets in a short period of time, suggesting that AhR plays an important role in normal blood cell development.

"This finding has enabled us to overcome a major hurdle in terms of being able to produce enough of these cells to have a potential therapeutic impact both in the lab and, down the line, in patients," says Murphy. "Additionally, our work suggests that AhR has a very important biological function in how blood cells form in the body."

Funding for this study was provided in part by the National Institutes of Health's (NIH) National Heart, Lung, and Blood Institute (NHLBI) under grant award number U01 HL107443-01; a Scholar Award from the American Society of Hematology; an Affinity Research Collaborative award from the Evans Center for Interdisciplinary Research at BU; a training grant from the NIH's NHLBI under award number 5T32HL007501-30; the

AhR plays an important role in normal blood cell development.



NIH's National Institute of Environmental Health Sciences under grant award numbers P01-ES11624 and P42ES007381; and the Art beCAUSE Breast Cancer Foundation.

Study Shows Mind-Body Course has Positive Impact on Well-Being of Medical Students

A BUSM study shows a mind-body class elective for medical students helps increase their self-compassion and ability to manage thoughts and tasks more effectively. The study, published in *Medical Education Online*, also discusses how this innovative course may help medical students better manage stress and feel more empowered to use mind-body skills with their patients.

Allison Bond, MA, a third-year medical student at BUSM, served as the paper's first author. The course was designed and taught by coauthor Heather Mason, MA, founder and director of the Minded Institute.

"An effective career in medicine requires technical competence and expertise, but just as important is the ability to empathize and connect with others, including patients," says Robert Saper, MD, MPH, associate professor of family medicine and director of integrative medicine at BUSM and BMC. "However, according to studies, medical students experience tremendous demands from workload,

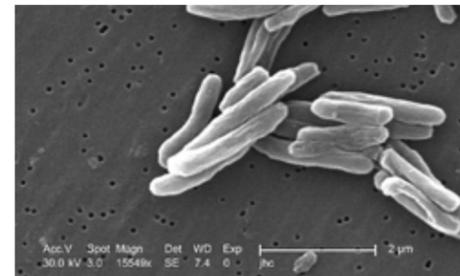
This innovative course may help medical students better manage stress.

Researchers have generated a map of the cellular circuitry of *Mycobacterium tuberculosis*.

Molecular Circuitry that Helps Tuberculosis Survive for Decades Identified

Researchers from BU's National Emerging Infectious Diseases Laboratories (NEIDL) have generated a map of the cellular circuitry of *Mycobacterium tuberculosis*, the causative agent of human tuberculosis (TB). This information, published online as an Advanced Online Publication in the journal *Nature*, sheds new light on the bacterium's ability to survive inactive in the human body for decades, resist treatment, and cause disease.

"We have generated the first large-scale experimental map of thousands of molecular interactions in the bacterium that enable it to cause disease," says lead author James Galagan, PhD, associate direc-



Mycobacterium tuberculosis, the causative agent of human tuberculosis

tor of Systems Biology at the NEIDL and associate professor of biomedical engineering, bioinformatics, and microbiology at BU. "Based on this map, we have developed the first computer models that will ultimately enable us to more easily study this challenging infectious organism and develop new drugs, therapeutics, and diagnostics.

"We pinpointed many molecules, interactions, and responses that appear important for the bacterium but that had been previously overlooked. These

provide new avenues for combating this disease," he adds.

The work was the result of an international consortium of researchers led by Galagan and Gary Schoolnik at Stanford University, and included scientists from the Seattle Biomedical Research Institute, Brigham and Women's Hospital, Metabolon Inc., Caprion Proteomics Inc., and the Max Planck Institute for Infection Biology.

This research was funded by the National Institute of Allergy and Infectious Diseases of the National Institutes of Health, Department of Health and Human Services, the Paul G. Allen Family Foundation, the National Science Foundation Pre-doctoral Fellowship Program, and the Burroughs Wellcome Fund Award for Translational Research.

Method to Rapidly Identify Specific Strains of Illness Created

Researchers from Boston University School of Medicine (BUSM) and George Washington University (GWU) have developed a method to rapidly identify pathogenic species and strains causing illnesses, such as pneumonia, that could help lead to earlier detection of disease outbreaks and pinpoint effective treatments more quickly. The findings are featured online in the journal *Genome Research*.

"Our method can characterize a biological sample faster, more accurately, and in a more automated fashion than any other approach out there."

Principal investigator Evan Johnson, PhD, BUSM assistant professor of medicine, and Keith Crandall, PhD, director of the Computational Biology Institute at GWU, have created a statistical framework called Pathoscope to identify pathogenic genetic sequences from infected tissue samples.

"Pathoscope is like completing a complex jigsaw puzzle," says Johnson. "Instead of manually assembling the puzzle, which can take days or weeks of tedious effort, we use a statistical algorithm that can

determine how the picture should look without actually putting it together. Our method can characterize a biological sample faster, more accurately, and in a more automated fashion than any other approach out there.”

This sequencing method will be relevant in a broad range of scenarios. For example, in hospitals, it will allow for rapid screening of thousands of infectious pathogens simultaneously, while being sensitive enough to monitor disease outbreaks caused by specific pathogenic strains. Veterinarians can even apply the method in their practices. This research is also applicable outside of clinical settings, allowing officials to quickly identify agents of bioterrorism (e.g., in a tainted letter) and harmful pathogens on hard surfaces, soil, water, or in food products.

■ **Marathon Bombing Victims Aided by Rapid Response, Imaging of Injuries**

The Boston Marathon bombings brought international attention to the devastating effects of terrorism. There were numerous victims with severe injuries that needed immediate attention. A novel study in *Arthritis Care & Research*, a journal published by Wiley on behalf of the American College of Rheumatology, presents cases from Boston-area hospitals where victims were treated, examining the medical response and imaging technologies used to save lives and limbs.

Boston Marathon bombing victims were subject to blast waves and blast wind resulting in soft tissue damage, limb fractures, and amputations.

“In an era of terrorism, even clinicians serving nonmilitary patients need to understand the spectrum of injuries caused by bomb explosions,” explains lead author Ali Guermazi, MD, PhD, BUSM professor of radiology and BMC chief of the Section of Musculoskeletal Imaging in the Department of Radiology, one of the many specialists who treated bombing victims at BMC.

Injuries resulting from the Marathon bombings are relevant to the fields of rheumatology, rehabilitation, orthopedics, and musculoskeletal imaging.

“Critically ill bomb-blast patients needed quick assessments of their injuries, which had the most devastating effects to the lower limbs.”

As a result of the bombings, there were 3 fatalities and 264 injured, with the most severe injuries involving the lower extremities of those located closest to the blasts. Shrapnel dispersed by the bombs included pieces of metal, nails, and ball bearings. Injuries resulting from the Marathon bombings are relevant to the fields of rheumatology, rehabilitation, orthopedics, and musculoskeletal imaging.

Boston Marathon bombing victims were subject to blast waves and blast wind resulting in soft tissue damage, limb fractures, and amputations. The study demonstrates the systematic need to examine each extremity for musculoskeletal, neurological, and vascular damage. In accordance with previous evidence, X-rays and CT scans should be used liberally to detect foreign objects, to define basic penetration patterns, and to assess bony and soft tissue injuries.

■ **Disease Caused by Repeat Brain Trauma in Athletes May Affect Memory, Mood, Behavior**



New research suggests that chronic traumatic encephalopathy (CTE), a brain disease associated with repeat brain trauma including concussions in athletes, may initially impact people in two major ways: by affecting behavior or mood or memory, and cognitive abilities. The study appeared in the August 21, 2013, online issue of *Neurology*, the medical journal of the American Academy of Neurology. CTE has been found in amateur and professional athletes, members of the military, and others who experienced repeated head

CTE has been found in amateur and professional athletes, members of the military, and others who experienced repeated head injuries including concussions and subconcussive trauma.

The majority of the athletes had played amateur or professional football, with the rest participating in hockey, wrestling, or boxing.

injuries including concussions and subconcussive trauma.

“This is the largest study to date of the clinical presentation and course of CTE in autopsy-confirmed cases of the disease,” says study author Robert A. Stern, PhD, BUSM professor of neurology and neurosurgery. “However, the overall number of cases in the study is still small and there may be more variations in CTE than described here.”

For the study, scientists examined the brains of 36 male athletes ages 17 to 98 diagnosed with CTE after death who had no other brain disease, such as Alzheimer’s. The majority of the athletes had played amateur or professional football, with the rest participating in hockey, wrestling, or boxing. A total of 22 had behavior and mood problems as their first symptoms of CTE, while 11 first experienced memory and thinking problems. Three of the athletes did not show any symptoms of CTE at the time of death.

The study was supported by the National Institutes of Health, the Department of Veterans Affairs, the National Operating Committee on Standards for Athletic Equipment, the Sports Legacy Institute, the National Football League, and the Andlinger Foundation.

■ **MC1R is a Potent Regulator of PTEN**

Why are red-haired individuals so prone to developing melanoma? BUSM researchers have discovered that MC1R, one of the key genes that regulate a person’s hair and skin color, protects against ultraviolet (UV) damage by direct interaction with PTEN, a well-known tumor-suppressor protein. These findings appeared in the August 22 issue of *Molecular Cell*.

The researchers found UV exposure triggers MC1R wild-type protein, but not the RHC-associated mutants that interact and protect the tumor-suppressor protein PTEN. Specially, MC1R protects UV-induced PTEN inactivation by PTEN phosphorylation, PTEN oxidation, and WWP2 mediated PTEN degradation.

“Our research establishes that the MC1R-PTEN axis is a central regulator for melanocytes in response to UV exposure and reveals the molecular basis underlying the association between MC1R variants and melanomagenesis,” explains corresponding author Rutao Cui, MD, PhD, a BUSM associate professor of dermatology as well as director of the Pigment Cell Biology Program.

Funding for this study was provided by the National Institutes of Health, the National Cancer Institute, the American Cancer Society, and the Harry J. Lloyd Charitable Trust. ■



Melanoma with a diameter that had changed in size. Image courtesy of the National Cancer Institute

“Our research establishes that the MC1R-PTEN axis is a central regulator for melanocytes in response to UV exposure and reveals the molecular basis underlying the association between MC1R variants and melanomagenesis.”

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Jeffrey B. Crandall
Mary L. Del Monte
Ralph G. Ganick
Edward V. Grayson
Joseph R. Halperin
Robert W. Healy
Howard I. Levy
Meyer D. Lifschitz
Carol C. Pohl
L. T. Rabinowitz
Leonard A. Sharzer
Ethan M. Shevach
Arthur D. Shiff
Stuart E. Siegel
Emil Von Arx III
John G. Williams, Jr.

1969

Clare L. Dana
Michael S. Drucker
Geraldine L. Feldman
Jack J. Ferlinz
Arthur P. Fisch
George G. Fishman
David A. Fleishman
Edward W. Forbes
Ronald A. Grant
Lester K. Henderson
George L. Hines
Marc F. Hirsch
John P. Howe III
Stephen G. Lazoff
Robert A. Novelline
Stuart Rhein
Peter J. Sapienza
Michael J. Scollins
Mary D. Scollins
Kenneth C. Spengler, Jr.
Elihu L. Sussman

1970

Barbara J. Baker
Paul V. Bertocci
Howard S. Britt
Denis P. Byrne
Bruce R. Davidson
Joseph S. Fastow
Robert S. Galen
Gene A. Grindlinger
Harvey R. Gross
Paul J. Haydu
Gail K. Kraft
Thomas P. Massello
Steven A. Miller
Mike B. Siroky
Robert A. Vigersky

1971

Martin M. Bress
Marc A. Clachko
Paul B. Cohen
Mark O. Cutler
John A. Dundas
Richard B. Glaser
Jonathan R. Insel
Herbert S. Plovnick
Louis E. Rosenthal
Peter M. Taft
Jerry R. Wexler
George P. Whitelaw, Jr.

1972

Mark H. Allen
Carol E. Anderson
Barry J. Benjamin
Laszlo Boros
Samuel A. Burstein
David M. Center
Gregory G. Cheung
Edward V. Famiglietti
Robert I. Friedman
G. C. Kutteruf
Robert G. Layton
Steven Lipper
Ronald B. Matloff
Robert F. Meenan
Allen E. Ott
George A. Parker
Alan S. Peterson
David R. Rowden

Stephen H. Schneider
Joel R. Schulman
Bruce K. Shapiro
Marc C. Watson
Charles A. Welch

1973

Nancy E. Anthracite
Michael J. Cassidy
Richard S. Chung
Bernard M. Cooke, Jr.
Robert R. Dittkoff
Michael Feinberg
William J. Georgitis
John A. Gillespie
Steven A. Gould
Lynne S. Gradinger
Joshua D. Gutman
Gerald R. Harpel
Paul A. Janson
Donald M. Kaplan
Robyn G. Karlstadt
Stephanie J. Larouche
Jonathan H. Lass
Jack P. Leventhal
Stephen R. LoVerme, Jr.
Eva R. Mauer
Evan E. Mortimer
Stephen T. Olin
Robert S. Pastan
Richard F. Rose
Carl E. Rosow
Robert Sandberg
Jose M. Santiago
David Savar
Neil I. Stahl
David H. Walker
Henry S. White

1974

Robert G. Alexander
James A. Benson
Arnold M. Berman
Lynne L. Brewer
Robert W. Chamberlain, Sr.
David J. Chronley
Paul O. Farr
Paul S. Freedberg
Robert H. Gilman
Jeffrey R. Goldberg
Thomas S. Gould
Paul M. Leiman
D. J. Lynn
Stephen F. Osborne
Jean J. Panagakos
Mark S. Samberg
Rosemary K. Sokas
Ruth Tuomala
J. B. Watt
Robert R. Wolff

1975

Steven L. Berk
Barbara H. Bjornson
Bruce N. Brent
Wilson S. Colucci
Joel R. Daven
Theslee J. DePiero
Richard M. Freedman
Howard M. Friedman
Linda C. Hemphill
Joseph L. Jorizzo
Elizabeth Kantor

David M. Kaufman
Edward V. Lally
David L. Levy
Richard A. Lichtenberg
John M. McIllduff
Joel A. Roffman
Edward J. Sherwood
Allan W. Silberman
John F. Yee
Robert M. Zelazo

1976

Gilbert J. Beers
Ben R. Bronstein
Loring S. Flint, Jr.
Patricia L. Kauffman
Matthew R. Kaufman
Karen W. Landau
Faye Lee
M. Douglass Poirier
Anthony A. Schepis
Robert O. Sternbach
Glenn K. Takei
Thomas V. Whalen, Jr.
Richard E. Wilker
Barry J. Zamost

1977

Robert W. Antelman
Philip S. Barie
Mark J. Berenberg
Andrew J. Breuder
Victoria A. Cargill
Jonathan S. Forman
Gerald D. Goldman
James J. Heffernan
Kathleen S. Jones
Joel M. Kaufman
William Lang
Paula A. Leonard-Schwartz
Irma M. Lessell
Richard J. Lopez
Myron Maron
Astrid O. Peterson
John J. Przygoda
Michael R. Rifkin
Richard S. Rome
Steven H. Rosenberg
Morton E. Salomon
Dennis J. Sargent
Katherine F. Sargent
Edward P. Schuman
Steven B. Schwartz
Kathryn N. Shands
Kathleen F. Thurmond
Robert A. Witzburg

1978

James E. Andrews
Carola A. Arndt
Steven J. Bellin
Rita B. Benzra-Obeiter
Alan D. Berkenwald
Johan G. Blickman
Edith E. Braun
Lillian E. Cohn
Frank S. Davis
Patricia A. Donahue
Mitchell S. Engler
Fawn Cohen Gottlieb
Marcia E. Herrmann
Janel Jacob
Lowell H. Keppel

REUNION GIVING SPOTLIGHT

Reunion classes traditionally lead the way when it comes to giving back to the School of Medicine and this year was no exception. BUSM is proud to highlight two special gifts that will make the difference for future generations of students.

Mary and Carl A. Olsson, MD (MED'63) utilized a charitable gift annuity to make a significant commitment of \$100,000 in honor of Dr. Olsson's 50th reunion. The Olssons, who are Chester S. Keefer, MD



Society members, have been longtime supporters of BU and BUSM. This gift will augment the Carl and Mary Olsson Scholarship Fund, established in 2008, that supports medical students who demonstrate financial need.

Frederick A. Godley III, MD (MED'83) has a passion for education and ensuring that BUSM students are prepared for the next stages of their medical careers. With a gift of \$10,000 in honor of his 30th reunion, Dr. Godley established a lecture series that will educate medical students on business and political issues that will influence the practice of medicine. He continues to work with his classmates to raise \$100,000 in order to create an endowed lectureship so future generations of students will be similarly prepared.

ALUMNI GIVING (CONTINUED)

David C. Leiman
Andrew S. Malbin
Brooks Martin
Lawrence S. McAuliffe
Richard C. Mindess
Larry S. Nichter
Elvin R. Ramey
Stephen M. Rich
Daniel Rotrosen
David M. Saltzberg
Alan L. Schechter
Ronald E. Schott
Sheryl F. Schott
Joseph F. Seber
Neal Shadoff
Carol J. Singer-Granick
David B. Smith
Dennis L. Sprecher
Judith M. Strymish
Richard D. Tanner
Peak Woo
Warren S. Zwecker

1979

John J. Adams
Howard C. Bauchner
Edward L. Bedrick
Charles M. Blitzer
Steven J. Brand
Karen T. Brown
John A. Durkan
Stuart R. Ferguson
Patricia O. Francis
James G. Freeman
Robert J. Geller
Robert N. Golden
Jeffrey A. Goldes
Cynthia A. Hadley
Sandra L. Harris
William H. Herman
Peter K. Hoshino
Joseph O. Jacobson
Ruth J. Magraw
Jerry Murphy
Ned R. Novsam
J. David Ogilby
Lisa S. Ramey
Richard A. Rudnick
Kert D. Sabbath
Stephen C. Saris
Onile Sestokas
Arthur C. Theodore
Sheila Trugman
Carolyn H. Welsh
Edward R. White

1980

Winston D. Alt
James B. Bassett, Jr.
Jorge A. Brito
Michael J. Cahalane
Carol Ann Cobb
Brian I. Collet
Laura A. Colletti-Mann
David R. Edelstein
Mark A. Elson
Martha W. Gilpatrick
Christine S. Hunter
Michael A. Husson
Heidi Kapanka
Audrey S. Koh

Andrew L. Kriegel
Alan A. LaRocque
Keith J. Lerner
Lauren L. Lerner
Joseph L. Malone III
Gordon S. Manning
James F. Mitchell, Jr.
Charles C. Paniszyn
Richard S. Pieters, Jr.
Richard Roseff
S. J. Saragas
Kenneth B. Simons
Susan M. Strahosky
Andrew M. Wexler

1981

Anonymous
Nancy P. Andersen
Lesley A. Atwood
Sally Browning
Minou Woel Colis
Ronald G. Collman
Thomas J. Dowling, Jr.
Mary A. Drinkwater
Neal S. Greenstein
Richard J. Hicks
David M. Hollander
Lawrence G. Kass
Carolyn L. Kinney
Fred M. Krainin
Corey J. Langer
Mindy R. Langer
Jordan Leff
Fredric B. Meyer
Lucy C. Paniszyn
Ira D. Papel
I. J. Ratner
Nancy B. Robinson
Daniel Rosenberg
Karen F. Rothman
Jeff M. Sands
Robert P. Sundel
Mary L. Todd

1982

Jacob Asher
Carl J. Bettinger
Robert M. Burchuk
Gary R. Cohen
William G. Dietrich
Steven R. Gold
Barbara L. Hartwell
Christine M. Hunt
John A. Kaufman
Phyllis A. Kephart
Raphael I. Kieval
Peter J. Lydon
David W. Nelson
Robert D. Oates
Ronald L. Ragland
Kenneth L. Renkens
Carol L. Rosenberg
Scott M. Ross
David N. Schwartz
Lee B. Silver
Deborah E. Zuckerman

1983

Martin A. Acquadro
Michael J. Barondes
Paul F. Barresi

Scott D. Becker
Lynne Brodsky
Mary C. Burke
Mark D. Chase
William L. Daley
Alan B. Ettinger
Steven J. Fox
Frederick A. Godley III
Andrew M. Goldenberg
Kathleen L. Irwin
Jeffrey R. Jay
Glenn P. Kimball, Jr.
Jeffrey M. Liebmann
Peter J. Mannon
Donald K. Marcus

1984

Luis A. Bauzo
Elizabeth C. Behringer
Lenore J. Brancato
Nancy L. Chapin
Patricia A. Connolly
Andres F. Costas-Centivany
David P. DiChiara
Evan Geller
Jon B. Getz
Alan D. Haber
Jeffrey P. Hurley
Nancy R. Jasper
Allen E. Joseph
Robert C. Joseph
Kathleen E. Kearney
Steven M. Meixler
Susan R. Mendley
Guy L. Mintz
Polly J. Panitz
James E. Parker
Morris Pasternack, Jr.
Evan L. Siegel
Rebecca E. Snider
Haven T. Spencer
Michael J. Star
Ronald J. Sunog
Diane J. Weiss
Gary R. Weltman
Marsha Zellner

1984

Luis A. Bauzo
Elizabeth C. Behringer
Lenore J. Brancato
Nancy L. Chapin
Patricia A. Connolly
Andres F. Costas-Centivany
David P. DiChiara
Evan Geller
Jon B. Getz
Alan D. Haber
Jeffrey P. Hurley
Nancy R. Jasper
Allen E. Joseph
Robert C. Joseph
Kathleen E. Kearney
Steven M. Meixler
Susan R. Mendley
Guy L. Mintz
Polly J. Panitz
James E. Parker
Morris Pasternack, Jr.
Evan L. Siegel
Rebecca E. Snider
Haven T. Spencer
Michael J. Star
Ronald J. Sunog
Diane J. Weiss
Gary R. Weltman
Marsha Zellner

1985

Linda M. Bacon
Elizabeth Day Barnett
Matthew J. Bennett
Alan B. Berg
Alan M. Berg
Peter D. Berman
John Bezirgianian
Solveig G. Ericson
Blake I. Evernden

Pang-Yen Fan
Daniel R. Fishbein
Robert F. Fishman
Suzanne Gagnon
Howard A. Green
Stephen R. Guy
David S. Kam
Mark C. Kuperwaser
Karen M. Kyle
Jeffrey M. Morse
Alan S. Multz
Rebecca R. Neal
Elise H. Pyun
William V. Raszka, Jr.
Ann K. Salahuddin
Stacey R. Silverman
Valori D. Treloar
Susan L. Tuori
Tumika Williams-Wilson

1986

Joseph S. Baler
Edward F. Caldwell
Michael G. Connolly, Jr.
Mary L. Delaney
Byron L. Lam
Neal Mandell
Paul G. Meade
Gayle P. Milton
Mary E. Moynahan
N. S. Ober
Pamela A. Propeck
Andres Rodriguez-Munoz
Kevin E. Schmidt
Geoffrey M. Silver
Michael A. Singer
Burton G. Surick
Ilona W. Surick
Raymond J. Vautour
Allison P. Whittle

1987

Sarah Andrew
Stewart F. Babbott
Anthony J. Cannistra
Michael C. Choo
Shamim A. Dahod
Anne D. Emmerich
Fayne L. Frey
Julie Kaufmann
Sonia Y. Kragh
Grace J. Lee
Joseph A. Levine
Darius P. Melisaratos
Brian F. O'Donnell
Pierre E. Provost V
David J. Rullo
Susan A. Scherl
Frank D. Schneider
Kenath J. Shamir
Michael J. Sheehy

1990

David L. Burns
James D. Fletcher
David W. Fontaine
Brian S. Goldstein
Edward M. Gosselin
Kathleen M. Kelly
Brian J. McKinnon
Jerome B. Myers
Stephen C. O'Connor
Susan E. Pursell
Jean E. Ramsey
Gregory K. Robbins
Anita P. Courcoulas

1988

Daniel A. Adelberg
Scott D. Berns
Carl J. Boland
David A. Bross
John R. Charpie
Jennifer A. Clark
Cristian S. Constantinescu
Anita P. Courcoulas

R. S. Cowan
M. C. Cremens
Paula M. Cullinane
Robert G. Fante
Charles A. Garabedian
Ronni L. Goldsmith
William G. Griever
Beth A. Hanrahan
Howard K. Herman
James S. Hoffman
Pei-Li Huang
Alexander Ingerman
Robert M. Insoft
Edith M. Jolin
Arthur M. Lauretano
Frank S. Lee
Burt L. Lesnick
Emily C. McPhillips
Martha E. Moss
W. M. Nannery
Andrew O. Nichols
Vincent J. Patalano II
Katherine L. Phaneuf
Christine C. Reardon
Carl E. Rosen
Alyse B. Sicklick
Alison F. Sims
James D. Stern
James H. Tarver III
Mary J. Wagner
Sandra R. Weitz

1992

Daniel P. Alford
Timothy R. Berigan
Ilene E. Carlson
Lee R. Goldberg
Mark L. Goodstein
Christos N. Kapogiannis
Nicholas Karamitsios
Tamiko A. Long
Francis G. Martinis
Marisa Messore
Keith C. Miller
Jondavid Pollock
Carol S. Savage
Robert W. Schulze
Liza A. Shiff
Joseph N. Sidari
Jeffrey D. Wayne

1989

Kenneth M. Algino
Michael S. Cohen
Jean M. Ferrara
Steven M. Greenberg
Stephen U. Harris
Jeffrey S. Heier
Robin A. Horn
Judith C. Hwang
Kenneth P. Kato
Richard E. Luka
Patricia G. Morikawa
Margo M. Moskos
Sara J. Nuciforo
Lorene Osmanski
Margot Putukian
Jay E. Rosenfeld
Eric J. Sax
Jerry M. Schreiberstein
Monica Smiddy
Amy K. Veale
Paul A. Vigna
Patricia J. Williams
Alex G. Yip

1990

David L. Burns
James D. Fletcher
David W. Fontaine
Brian S. Goldstein
Edward M. Gosselin
Kathleen M. Kelly
Brian J. McKinnon
Jerome B. Myers
Stephen C. O'Connor
Susan E. Pursell
Jean E. Ramsey
Gregory K. Robbins
Anita P. Courcoulas

Leslie K. Serchuck
Stephen M. Tringale

1991

Susan J. Alexander
Matthew H. Blomquist
David Cohen
Vicki A. Chavin
Beth A. Hanrahan
Jane S. Cohen
Leah A. Darak
Keryn M. Dias
David A. Druckman
Marc S. Hoffman
Joung T. Kim
Treyce S. Knee
Susan B. Laster
Mina W. Ma
Robert H. Pass
Mary K. Patz
Scott D. Pendergast
Brian G. Sherman
John M. Timmerman
Michael S. Young

1992

Daniel P. Alford
Timothy R. Berigan
Ilene E. Carlson
Lee R. Goldberg
Mark L. Goodstein
Christos N. Kapogiannis
Nicholas Karamitsios
Tamiko A. Long
Francis G. Martinis
Marisa Messore
Keith C. Miller
Jondavid Pollock
Carol S. Savage
Robert W. Schulze
Liza A. Shiff
Joseph N. Sidari
Jeffrey D. Wayne

1993

Mary A. Barnhill
Edmund W. Cheung
Ronald G. Ebb
Cander Z. Dinlenc
Mark H. Dougherty
Michael F. Dowe, Jr.
Cynthia C. Espanola
Karen Splansky Farbman
Christopher P. Godek
Rose E. Heller-Savoy
Rajlakshmi K. Krishnamurthy
Sunil G. Menon
Michael S. Murphy
Jai G. Parekh
Christopher J. Perkins
Joseph D. Raffetto
Bindu Raju
Robert F. Rothman
Daniel I. Silvershein
Sadiqa K. Stelzner
Timothy J. Szutz

1994

Shailesh Bhat
Mariarita P. Bolanos
Jeffrey P. Collins

William Y. W. Au '55
Marvin B. Bacaner '53
Merwyn Bagan '62
Arnold M. Baskies '75
Arnold L. Berenberg '46
Allen G. Brailey Jr. '56
Wilmer B. Buckland '37
Robert J. Carey '54
Ann C. Cea '67
Gregory G. Cheung '72
Yi-Chuan Ching '58
Alan S. Cohen '52
Andrew B. Crummy '55
Donald P. Dobson '50
Elizabeth C. Dooling '65

Mary Jane England '64
Frederick L. Fox '68
Richard Gaines '81
George E. Ghareeb '62
Anthony J. Giorgio '57
Arnold Goldenberg '54
Marvin J. Hoffman '47
James B. Howell '65
Bernard L. Huang '62
David Ingall '57
Hideo H. Itabashi '54
Sarkis J. Kechejian '63
Jeffrey K. Klingenstein '75
Stanley H. Konefal '47
Edward E. Krukonis '63

Douglas N. MacInnis '46
Barry M. Manuel '58
John R. McCormick '65
Robert F. Meenan '72
Steven Abbott Miller '70
Frank J. Miselis '45
N. Stephen Ober '86
Bertha Offenbach-Fineberg '36
Carl A. Olsson '63
Hytho H. Pantazelos '63
Dianne M. Parrotte '79
Vincent J. Patalano '53
Peter E. Pochi '55
M. Douglass Poirier '76
Theodore Polos '47

Frederic F. Primich '57
Jordan S. Ruboy '55
Leon N. Shapiro '48
Richard J. Shemin '74
Robert C. Shoemaker '49
Robert J. Szarnicki '69
George J. Talis '50
Frank R. Toppo '80
Donald O. Ward '47
Murray Weinstock '65
Henry O. White '53
Tumika Williams-Wilson '85
Lawrence A. Yannuzzi '64

John Ferrante III
Karen S. Greenberg
Mehrdad F. Mehr
David Mischoulon
Elizabeth A. Moran
Philip M. Newhall
Adam A. Long
Francis G. Martinis
Marisa Messore
Keith C. Miller
Jondavid Pollock
Carol S. Savage
Robert W. Schulze
Liza A. Shiff
Joseph N. Sidari
Jeffrey D. Wayne

Allison E. Tonkin

1998

Heidi Abdelhady
Francis H. Boudreau
Michael S. Elkort
Samuel A. Frank
Anna D. Hohler
Angela P. Jackson
Judith P. Lytle
Neil J. Nigro
Brigid M. O'Connor
Ronda A. Rockett
Karen E. Wang
Charles E. Weaver Jr.
Namita G. Wijesekera
Shirvinda A. Wijesekera

Shawn M. Ferullo
David G. Kornguth
Linda W. Kornguth
Karran A. Phillips
Kevin M. Woods

2002

Brian K. Brighton
Kimberly A. Dodd
Frederic M. Goldman
David Y. Lou
Jason S. Reichenberg
Michelle M. Reichenberg
Katrina A. Steiling

2003

Vikas Agarwal
Kurtis T. Barry
Robert Bollo
John W. Campbell
Jesse A. Caron
Cory M. Edgar

2004

Gabriella L. Crane
Joshua D. Kantrowitz
Jonathann C. Kuo
Michael S. Lewis
Sheila L. Rajagopal
Antonio Riera
Hillary S. Tompkins

2005

Nathaniel P. Fleischner
Andrew H. Kim
Mark D. Franciosa
Hau D. Le
Robert M. Najarian
Ashwin J. Shetty
Graham M. Snyder
Jeremy L. Warner

2006

Morsal R. Tahouni
Eric H. Yeung

Kevin Yu

2007

Sarah B. Catlin
Jenny P. Chen
Carrie D. Stucken
Charlton E. Stucken

2008

Marianne F. Gray
Michael J. Gray
Chaz L. Stucken
Emily Zambricki Stucken

2009

Caitlin A. Day
Scott D. Zimmer

2010

Cherry Junn
Marisa A. Ryan
Rachel A. Stein Berman
Gretchen D. Struempf
Jonathon M. Struempf

2011

Jami H. Johnsen
Krista L. Lussier
Huai-Jen Yang

2012

Matthew K. Griswold
Sebastian T. Tong
Christina A. Woodward

2013

Maria C. Badaracco
Yash J. Bhatt
Erin T. Brooks
Meghan B. Bullock
Philip R. Camilon
Nicole E. Camomy
Giuseppe Cullaro
Amanda DeLoureiro
Matthew R. Egyud

Marta N. Flory
Anshul M. Gandhi
Qyana K. Griffith
Raymond R. Groller
David D. Hadiprodjo III
William J. Hammond
Samir A. Haroon
Tariq M. Hashmi
Cheryl L. Hendricks
Amy T. Hou
Lee S. Jamison
Emily M. Kidd
Judy Y. Kwok
Katherine S. Larabee
Neil McCormack
Jessica J. Moon
Achal J. Patel
Vassiliki Pravodelov
Nicole M. Roselli
Jacob Schwartzman
Lauren E. Scott
Danielle C. Spengler
Kunal Tandon
Theodora Textor
Supraja D. Thota
Gabriela Vargas
David R. Veltre
Flint Y. Wang
Megan R. Waterman
Jacob C. Wood

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Brian J. Chase
Derek Chicarilli
Ranjit S. Chima
Tzu-Feng Chung
Justin M. Cifuni
Jose A. De Olazabal
Michelle M. Dominguez
Nancianna E. Doyle
Daniel A. Dworkis
Phillip M. Findling
Nicholas J. Giordano
Steven Hoh
Emily A. Holick
Michele A. Holzinger
Mitchell P. Kornhaber
Nisith Kumar
Joanne Kwan
Hanzhong Li
Li Liang
Rong D. Lu
Caroline B. Lyon
Olga V. Mallett
Matthew T. McAdams
Mohamad H. Nadimi
Albert H. Nadjarian
Asha E. Neptune
Peters T. Otlans
Alexander Paiva
Victoria K. Perry
Drew C. Popper
Ming Y. Proschitsky
Sherazuddin Qureshi
Diane K. Radford
Jennifer D. Rubin
Cindy L. Russo
Sheelu Samuel
Timna Serino
Amy L. Silverio
Melissa M. Smith
Divyanshu Soni
Elena S. Spanjaard
Kimberly A. Sullivan
Pejman Talebian
Kylle M. Tollefsen
William W. Tollefsen
Christopher R. Tonn
Giuseppina Verde
Michelle N. Vo
Catherine J. Wei
Mary Ellen Wickum
Chuang-Kuo Wu
Jia Ying
Haoqi Yang
Ziyang Yu
Xuemei Zhong

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Reunite
REUNION CELEBRATIONS IN 2014

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1969-45th • 1974-40th • 1979-35th

1984-30th • 1989-25th • 1994-20th

1999-15th • 2004-10th

Contact Information
Boston University School of Medicine
Alumni Association
72 East Concord Street, L-120
Boston, MA 02118
Phone: 617- 638-5150
Email: alumbusm@bu.edu

Boston University School of Medicine
Alumni Association

Reunite
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...Enjoy Reunion Festivities May 2-3, 2014



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How much fun can you pack into one weekend?

- Campus Experience with Students and Faculty
- Reunion Reception
- Class Dinners
- Medical School Open House
- Student-led Tours of Campus
- Make Your Own Ice Cream Sundae Bar
- Private Deans Reception
- Dining and Dancing at the 139th Annual Banquet

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Phone: (617) 638-5150 or Email: alumbusm@bu.edu

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Boston University School of Medicine

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2014 Calendar

MAY 1

**Chester S. Keefer Society
Annual Dinner**

Four Seasons Hotel, Boston
May 1, 2014

MAY 1

Dean's Advisory Board Meeting

BUSM
May 1, 2014

MAY 2-3

School of Medicine Alumni Weekend

May 2-3, 2014

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