The pioneering work sets the stage for the complete DNA of a cancer patient's genome to pull out the mutations that contributed to the patient's cancer. "Until now, no one has sequenced a patient's genome to find all the mutations that are unique to that person's disease," said lead author Timothy Ley, M.D., the Alan A. and Edith L. Wolff Professor of Medicine. "We didn't know what we would find, but we felt that the answers to why this patient had AML had to be embedded in her DNA."

To date, scientists involved in large-scale genetic studies of cancer have not gone so far as to do a side-by-side comparison of the genomes of normal cells and tumor cells from the same patient. Rather, earlier studies have involved the sequencing of genes with known or suspected relationships to cancer, a method that likely misses key mutations.

"The determination of the first complete DNA sequence of a human cancer genome, and its comparison to normal tissues of the same individual, is a true landmark in cancer research," said geneticist Francis Collins, M.D., Ph.D., former director of the National Human Genome Research Institute. "In the past, cancer researchers have been 'looking under the lamppost' to find the causes of malignancy, but now the team from Washington University has lit up the whole street. This achievement ushered in a new era of comprehensive understanding of the fundamental nature of cancer and offers great promise for the development of powerful new approaches to diagnosis, prevention and treatment."

See Research, Page 6

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Domestic violence risk a growing problem for veterans

BY JESSICA MARTIN

With the increased risk of domestic violence in veterans suffering from posttraumatic stress disorder (PTSD), collaboration is needed to deal with both existing problems effectively, a University expert in veteran mental health said.

"The increasing number of veterans with posttraumatic stress disorder raises the risk of domestic violence for them and their families or children in communities across the United States," said Monica Matthieu, Ph.D., assistant professor of social work.

"Treatments for domestic violence are very different than those for PTSD. The Department of Veterans Affairs (VA) has mental health services and treatments for PTSD, yet these services need to be combined with the specialized domestic violence intervention programs offered by community agencies and services need to be adapted to respond to the unique challenges to existing community responses to domestic violence," said Matthieu.

"Community responses to domestic violence need to be adapted to respond to the increasing number of veterans suffering from PTSD. Veterans bring some unique challenges to existing community responses to domestic violence," said Matthieu.

Matthies and Peter Hermann, Ph.D., assistant professor of social work, are merging their research interests and are working together to design community prevention strategies to address this emerging public health problem.

"The increasing prevalence of traumatic brain injury and substance use disorders along with PTSD among veterans poses some unique challenges to existing community responses to domestic violence," said Hermann.

"Community responses to domestic violence need to be adapted to respond to the increasing number of veterans suffering from PTSD. Veterans bring some unique challenges to existing community responses to domestic violence," said Hermann.

The number of living veterans who have served in the U.S. military is staggering, with current estimates at 23,816,000. Yet the demographic of the veteran population is changing. World War II veterans are in their 80s and 90s, and there is an increased number of veterans completing tours of duty in Iraq and Afghanistan.

Matthieu says there are evidence-based psychological treatment programs that can be a great resource for clinicians to learn how to identify and treat PTSD symptoms. However, identifying battering behaviors among veterans with active PTSD symptoms may be difficult and may require consultation and referral to domestic violence experts.

Research in the VA shows that male veterans with PTSD are two to three times more likely than veterans without PTSD to engage in intimate partner violence and more likely to be involved in the legal system.

"Community violence prevention agencies and services need to be included in a veteran treatment plan to address the battering behaviors," Hermann said.

"Veterans need to have multiple providers coordinating the care that is available to them, with each provider working on one treatment goal," he said. "Coordinated community response efforts such as this bring together law enforcement, the courts, social service agencies, community activists and advocates for women to address the problem of domestic violence. These efforts increase victim safety and offender accountability by encouraging interorganizational exchanges and communication.

"Veterans Day is an excellent reminder that we need to coordinate the services offered by the VA and in the community to ensure that our veterans and their families get the services they need when they need them," Hermann said.

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Making safety a priority

Patricia Schelliwski, administrative assistant in the Office of Planned Giving, guides those in her office to their emergency assembly point during a West Campus evacuation drill Oct. 28. Schelliwski is a member of the West Campus Safety Committee, which partnered with the Office of Environmental Health and Safety to organize the drill. The committee — led by Josephine Niebur, training and development coordinator in human resources, and Mary Dillender, real estate coordinator — has been impressive in its efforts to help West Campus personnel prepare for emergencies, said Mark Bagly, University disaster coordinator. Some of the committee's recent activities include revising department emergency plans; obtaining radios, vests, flashlights and walkie-talkies for use during emergencies; and working on evacuation plans for West Campus offices.

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"Where to Go" campaign continues

BY JESSICA DAUGES

This fall, Washington University launched the "Where to Go" campaign to inform students, faculty, staff and others about how to prepare for an emergency and how the University will communicate information in an emergency.

One key method of communication is the Emergency Notification System (ENS), which sends text messages to cell phones and to e-mail addresses with information about an emergency. As of Nov. 1, 36.5 percent of faculty and staff and 44.5 percent of students have provided the University with cell phone numbers for ENS.

We encourage those in the WUSTL community who have not done so to visit emergency.wustl.edu and provide their cell phone number as soon as possible," said Steven P. Huffer, assistant vice chancellor for operations and chair of the Crisis Management Team, a crucial appraise by Chancellor Mark S. Wrighton to ensure WUSTL is prepared to cope with a variety of emergencies.

"Text messaging has proved to be an effective and efficient way to reach members of a university community in a crisis," said Matt Arbus, director of incident communications solutions. "That's why it's vital that each WUSTL student, faculty and staff member register their cell phone number as soon as possible."

Students, faculty, staff and others can register their cell phone numbers at emergency.wustl.edu by following the link on the left side of the Web page. All WUSTL e-mail accounts are already registered.
Pollan to receive Humanities Medal at fall colloquium

Celebrated food writer Michael Pollan will receive the Washington University Humanities Medal as part of "Celebrating Our Books, Recognizing Our Authors." WUSTL's seventh annual faculty book colloquium.

The biannual award is given to a faculty member—professor, philosopher, student, or artist whose career merits special recognition for excellence and courage.

The inaugural recipient was Turkish novelist and Nobel Prize-winner Orhan Pamuk, who received the honor in 2006. The award is supported by the Center for the Humanities in Arts & Sciences, Olin Library and a gift from David A. Grossman, Ph.D., and his wife, Phyllis Wilson Grossman.

In addition to receiving the Humanities Medal, Pollan will deliver the keynote address in the "Celebrating Our Books" at 4:30 p.m. Nov. 20 in Graham Chapel.

Faculty members Beata Gregorowicz, professor of Chinese and director of religious studies, both in Arts & Sciences; and Patrick Burke, Ph.D., assistant professor of music in Arts & Sciences, will also have presentations at the colloquium. In conjunction with the Nov. 20 event, the Campus Store will display 116 faculty books published over the past five years—including the works of Pollan—in the Commons and Grand Staircase areas of the Danforth University Center. All books will be available for purchase at the Campus Store, and Pollan and other faculty members will be available after the colloquium to sign their works.

Pollan is the author of five books, most recently the bestseller "Defense of Food: An Eat-on Book" (2008), which examines the seemingly simple yet often difficult question of what we choose to eat. "Compassionate Carnivore: Tales of Meat and the Animal Spirit" (2006) and "The Omnivore's Dilemma: A Natural History of Four Meals," which was named one of the 100 best books of 2006 by The New York Times and The Washington Post. The book also won the James Beard Foundation's 2007 award for best food writing.

Pollan's other books include "Second Nature: A Gardener's Education" (1991), "The Botany of Desire: A Plant's-Eye View of the World" (2001) and "A Place of My Own" (1997). He serves as the Knight Professor of Journalism at University of California, Berkeley, where he also directs the Knight Program in Science and Environmental Journalism. He is a contributing writer for The New York Times Magazine and serves as executive editor of Harper's Magazine.


Materials range from letters, religious sermons and exchanges between hagiographers and their subjects, to poems, prose pieces and biographical and autobiographical accounts.

Burke's research centers on music of the United States, especially jazz, with a focus on issues of race and ethnicity. "Come In and Hear the Truth" (2008) investigates the relationship between music and social collaborations and competitions that animated Manhattan's 52nd Street jazz clubs during the 1930s and 1940s. Burke's current book project is centered on the methods and theories of historical musicology and ethnomusicology, as well as on the insights of black cultural studies and American studies, the book reflects a commitment to an interdisciplinary, socially and historically grounded approach to African-American music.

"Celebrating Our Books" is free and open to the public, but seating is limited and RSVPs are strongly encouraged.

For more information about the colloquium, call 935-5576 or e-mail cenhum@wustl.edu.
Interferon gamma could be key to preventing, treating multiple sclerosis

BY GLENN ERICSON

Multiple sclerosis (MS) results when the immune system attacks nerves in the brain and spinal cord. Now scientists have shown that interferon-gamma plays a deciding role in whether immune cells attack and injure the central nervous system (brain and spinal cord in mice). Interferon-gamma is an immune system protein that helps the body defend itself from invaders. In their latest research, which appeared in the October issue of the Journal of Experimental Medicine, the researchers show that interferon-gamma reduces the number of immune cells—previously primed to attack the spinal cord—was shown to prevent normally occurring immune cells from entering the mice’s veins and entering the cerebral spinal fluid. The researchers found that these findings highlight the potential of interferon-gamma to prevent MS, and highlight the potential of interferon-gamma to prevent MS.
victorian-era comedy explores gender, class, intimacy

by liam otten

David Mamet is perhaps the most instantly recognizable playwright of his generation, known for terse, highly stylized and strategically crude plays — "Glengarry Glen Ross" (1984), "Speed the Plow" (1988) and "Oleanna" (1992) — that relentlessly dissect contemporary masculinity.

Next weekend, the Performing Arts Department in Arts & Sciences will showcase another side of Mamet with "Boston Marriage," a sharp and sometimes shocking drawing-room comedy centered on a pair of genteel Victorian women. Performances take place in the A.E. Hotchkiss School of Architecture, 8 a.m. to 4 p.m., Nov. 20, 21 and 22, and at 2 p.m. Nov. 22 and 23.

Written in 1999, this tart, bantering tale explores the relationship between Claire and Anna, two scheming "women of fashion" whose intimate, long-term relationship is euphemistically referred to as a "Boston marriage." Claire, returning from a long (and unexplained) absence, discovers that Anna has become mistress to a wealthy man, who has given her an enormous emerald necklace and income to match. But Claire has designs of her own.

Infatuated with a respected young lady, she tries to enlist the jealous Anna's help in arranging a tryst. But when the young lady appears in Anna's foyer, an unexpected crisis threatens both women's futures.

"Boston Marriage" is hysterically funny and quintessentially Mamet," said director Annamaria Pileggi, senior lecturer in drama. "Even though it focuses on women, and even though it's set in a historical context, we're dealing with universal themes. I think the fact that they're lesbian is basically incidental for him."

"Nothing is ever said, and a lot is left ambiguous," Pileggi said. "We don't know anything about these women's backgrounds or history. The focus is on their relationship, which has now somewhat cooled. And so they scan one another in a way that they're scanning one another, because that's the only way they can find intimacy — for only way left to communicate their love."

Pileggi said Mamet's use of language is interesting.
"The writing is recognizably his, but more flowered and gentile — almost to a Oscar Wilde or Noel Coward," she said. "But then, at times, the repartee becomes utterly, scathingly crude, which is particularly charming in its way. The pacing tempers the play.

"In the end, I don't think 'Boston Marriage' really has much to do with the history of Boston marriages or Victorian America," Pileggi said. "It's Mamet having fun with language and exploring strange characters who happen to be female."

"Anna and Claire make no apologies, and he makes no apologies for them," she said.

The three-person cast features seniors Kaylin Boosalis as Anna and Shaunna Kramer as Claire. Also featured is senior Adina Talve-Goodman as Catherine, Anna hapless husband.

The period costumes and sets — the latter complete with chintz wallpaper and matching — are set by junior Laura Mart and senior Kerith Perashak. Props and lighting are by senior Laura Cantamessa; costumes are by senior Bill Calvert.

Tickets — $9 for students, senior citizens, faculty and Staff, $15 for general admission. Tickets $15 to $17 are available through the Edison Theatre Box Office and all Box Office locations.

For more information, call 935-6543.
Olympia Dakakis brings 'Rose' to Edison Theatre

L egendary actress Olympia Dakakis, the Academy Award-winning star of "Moonstruck" and "Steel Magnolias," will present a concert reading of "Rose," her one-woman Broadway show, as part of the Edison Theatre OFF-WALL Saturday Series. The special one-night-only performance will begin at 8 p.m. Nov. 22.

Dakakis will be accompanied by Martin Shaw - author of the Tony-nominated drama "Rent" (1980), which examines the treatment of homosexuals - "Rose" centers on an AIDS-stricken Holocaust survivor whose epic story spans the history of the 20th century.

The play opens with Rose sitting shivah (a Jewish mourning ritual) while her father reads a eulogy. Announcing that Judaism's "greatest contribution to mankind is to ask questions which have no answers," the play proceeds to recount her own often gut-wrenching tale of hardship and survival.

"Rose is in a small Ukrainian shtetl. Rose survives a brutal pogrom, marries a Jewish-American sailor, and later bears witness to the Warsaw Ghetto Uprising. At the end of World War II, she boards a ship, the Exodus 1947, and, when the ship is turned away from Palma, marries a Jewish-American sailor. The couple settles in Atlantic City - which Rose describes as "Warsov on the Sea" - but she eventually moves to Miami Beach, where she raises a family and runs a small hotel.

Yet the conflicts continue into the next generation as Rose's children and grandchildren grow to become radical Jewish settlers.

"Bringing a handkerchief to the Web site TalkTalk Broadway. "We'll be talking before the evening is over, just as surely as you will jump to your feet cheering and applauding wildly at triumphant end!"

The Shulofe later called the show "a lesson in acting technique," adding "Olympia, Dakakis' performance... is virtuosic." Though perhaps best known for her film roles, Dakakis is a veteran of more than 130 stage productions. Her many honors include OBE Awards for her performances in Bertolt Brecht's "Marat A Man" (1962) and "The Threepenny Opera" (1963) and a Tony Award nomination for her performance in "The Iceman Cometh." Dakakis also won the O. Henry Prize, The Pushcart Prize, and the National Jewish Book Award.

Dakakis' most recent novel is "The Angel of Forgiveness" (2003), which contains three narratives, all centering on an unbeknownst manuscript about a fallen angel and his half-mortal son, both of whom reside on New York's Lower East Side at the turn of the 20th century.

The Washington Post praised the book as "touching, funny and dizzying" while the Los Angeles Times noted, "Stark has created a direct bloodstream, creating an important work of deep thought, soaring language and serious implications that is also unceasingly entertaining."

For more information, call 395-3710 or e-mail willswalsh@wustl.edu.

How to submit University Events

Submit "University Events" entries to Angela Hall of the Office of Student Activities.

Monday, Nov. 24

10 a.m. Swimming and Diving.

Tuesday, Nov. 25

10 a.m. Swimming and Diving.

Wednesday, Nov. 26

10 a.m. Swimming and Diving.

Thursday, Nov. 27

10 a.m. Swimming and Diving.

Friday, Nov. 28

10 a.m. Swimming and Diving.

Saturday, Nov. 29

10 a.m. Swimming and Diving.

Sunday, Nov. 30

10 a.m. Swimming and Diving.

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Sunday, Nov. 30

10 a.m. Swimming and Diving.


More than mildly entertaining Erin Presson, administrative assistant at University College, and Harvey Fields, Ph.D., assistant director for academic programs at Gildner Hall, hosted the University of Missouri-Louisville basketball game at 5 p.m. Saturday, Nov. 15. At the Beaumont Pavilion in Brookings Quadrangle, the two teams played at a moment of the student event W.I.L.L. (Walk In, Lay Down). M.I.L.D. — sponsored by University College, the evening and summer program in Arts & Sciences — is a take on the student event W.I.L.L. (Walk In, Lay Down). M.I.L.D. offered different activities: University College students, faculty, staff and others the opportunity to socialize while enjoying food, music and live music by local band Mo E & the Urban Grow Project. University College plans to make M.I.L.D. an annual event.

Volleyball begins defense of its title The No. 4 volleyball team won a dramatic match with No. 1 Emory University, 3-2, to win the 2008 University Athletic Association (UAA) Championship at the WU Field House Nov. 8. Senior right- sider Sarah Johnson had 14 kills to power the Bears past their conference rivals. In what has become one of the most anticipated matches in the UAA title volleyball, WUSTL and Emory have met to decide each of the last three UAA volleyball championships. The Bears host Principia College in the opening round at 5 p.m. Saturday, Nov. 15.

Football loses Founder's Cup The University of Chicago registered possession of the Founder's Cup with a 17-14 victory over Washington University Nov. 8 at Stagg Field in Chicago. WUSTL and Chicago were meeting for the 22nd consecutive time, and the game commemorates the first football game played between two UAA schools. The Bears' lead the all-time series, 16-4.

An estimated 13,000 cases of AML will be diagnosed in the United States this year, and some 8,800 will die of the disease. The five-year survival rate for AML, the most common type of acute myeloid leukemia, is 11 percent, according to the American Cancer Society. Based on genetic testing with standard methods at the study's outset, the patient knew she had two mutations that are common among AML patients; an indicator she had a typical subtype of the disease, and one of the many reasons why her genome was selected for sequencing. The researchers sequenced the patient's full genome, meaning DNA from both sets of chromosomes, using genetic material obtained from a skin sample. This gave the scientists a reference DNA sequence to which they could compare genetic alterations in the patient's tumor cells, taken from a bone marrow sample that was coopted only of tumor cells. While samples were obtained before the patient received cancer treatment, which can further damage DNA.

"We will continue to explore options to best keep the University community informed before, during and after a crisis occurs," Mark Bagley, University disaster coordinator, said. "We welcome any feedback, ideas and support from students, faculty and staff." In August, the University sent faculty and staff members an email with information on the "Where to Go" campaign, explaining what to do in an emergency and where to go to update contact information. Officials from the offices of Public Affairs, Mental Health and Safety also visited meetings and orientation sessions for making sure the community can be prepared in the event of an emergency. For more information about WUSTL community preparedness, to obtain "Where to Go" packets or to schedule an emergency communications meeting for your department, contact Bagley at 535-7061 or bagleym@ wustl.edu.
Introducing new faculty members

The following are among the new faculty members at the University. Others will be introduced periodically in this space.

Ram Dixit, Ph.D., joins the Department of Biology in Arts & Sciences as assistant professor. Dixit earned a bachelor's degree from the State University of New York at Stony Brook and a doctorate in molecular biology from Cornell University. He has held appointments at Penn State University and the University of Pennsylvania, where he explored microtubule organization and function. Dixit's research uses single-molecule techniques to understand the molecular mechanisms used in the dynamic assembly and reorganization of the cytoskeleton machinery in plant cells during morphogenesis.

David Feidler, Ph.D., joins the Department of Anthropology in Arts & Sciences as professor. He studied evolution of the length and dominance of government institutions and worked on ancient lowland Maya of south-eastern Mexico and Central America. He is directing long-term research at the site of El Mirador in northern Peten, Guatemala. His interests in this regard include material symbol-systems and religion, monumental architecture, political economy, dynamic history and warfare. At a broader level, he is interested in the theory of comply with rules in the evolution of civilization in southeastern Mesoamerica.

Vitaly Klyuchko, Ph.D., joins the Department of Biomedical Engineering and the School of Medicine as assistant professor. Klyuchko earned a doctorate in biophysics from the University of Wisconsin-Madison in 2002. He completed post-doctoral training at the Salk Institute in La Jolla, Calif., from 2003-07 and was a faculty member in New York University's Department of Physiology and Neuroscience before joining WUSTL. His research involves novel imaging and electrophysiological techniques to study plasticity at individual synapses. His work has important implications to the neurological disorders, such as motor retardation and Alzheimer's disease.

Mant N. Weston, Ph.D., joins the George Warren Brown School of Social Work as assistant professor. Weston earned a bachelor's degree in psychology from Duke University and a master's degree in social work from the University of Chicago.

Ryan T. Moore, Ph.D., joins the Department of Political Science in Arts & Sciences as assistant professor. He earned a doctorate from Harvard University in government and social policy in 2008 and a master's degree from Harvard University in statistics in 2006. His primary research interests are centered around American social policy and political social dynamics. Specific areas of interest include the intersection of social dynamics, the politics of the elderly, and public policy.

Jocelyn F. Wnter, Ph.D., joins the Department of Economics in Arts & Sciences as assistant professor. She earned a doctorate in economics from the University of California, Los Angeles, in 2008. Her research focuses on health economics of crime, health care costs and child labor. She is interested in the relationship between crime, health care costs and child labor.

Joan Pannullo, Ph.D., joins the Department of Economics in Arts & Sciences as associate professor. She earned a doctorate in economics from the University of California, Los Angeles, in 1982. Her research focuses on health economics of crime, health care costs and child labor. She is interested in the relationship between crime, health care costs and child labor.

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Vetta L. Sanders Thompson, Ph.D., joins the George Warren Brown School of Social Work as associate professor. She is interested in the relationship between crime, health care costs and child labor. She is interested in the relationship between crime, health care costs and child labor.

Jeffrey D. Bradley, M.D., asso- ciate professor of radiology, effective Oct. 1

Beijing, China. Washington University, the China Scholarship Council and the Responsive Ph.D. Group sponsored the trip. In November 2009, in addition, Dacey was nominated for a three-year term as chairman of the Accreditation Council for Graduate Medical Education. The RAND Group sponsored the trip.

Kathleen Anne Dean, as associ- ate professor of radiology, effective Aug. 1, with tenure effective Oct. 1

Hillery Anger Elfenbein, Ph.D., as associate professor of organizational behavior, effective Aug. 1, with tenure effective Oct. 1

Guy M. Genin, Ph.D., to associate professor of mechanical engineering, effective Oct. 1

Notables

Encouraging graduate education

Shirley J. Dyke, Ph.D., center, the Edward C. Dickey Professor of Engineering, meets with students from Chinese universities during a scholarship information exchange event at the International Graduate Scholarship Conference held Oct. 17 and 18 in Beijing, China. Washington University, the China Scholarship Council and the Responsive Ph.D. Group co-sponsored the fourth annual conference that brought together leaders of 40 prominent universities across China and graduate deans and faculty from 14 leading U.S. research universities in the Responsive Ph.D. Group. Chancellor Mark S. Wrighton and seven others from WUSTL participated in the conference, titled "International Cooperation in Graduate Education: Dual and Joint Degrees Programs." More than 350 of China's top college seniors attended the conference's Scholarship Information Exchange, where they learned about scholarships and fellowships for postgraduate study from the U.S. university representatives.

Trustees grant faculty promotions, tenure

A recent Board of Trustees meeting, the following Roll of Faculty members were promoted to tenure, appointed with tenure or granted tenure effective July 1, 2008, unless otherwise noted.

Appointment with tenure

Ross C. Brownson, Ph.D., as professor of social work

Kathryn Anne Dean, as associate professor of architecture, effective Aug. 1, with tenure effective Oct. 1

Hillery Anger Elfenbein, Ph.D., as associate professor of organizational behavior

Vetta L. Sanders Thompson, Ph.D., as associate professor of radiation oncology

Promotion with tenure

Guy M. Genin, Ph.D., to associate professor of mechanical engineering

For the Record

Of note

Gerald I. Andrelo, M.D., professor of surgery (urologic), and Henry Lai, M.D., assistant professor of surgery (urologic), have received a five-year, $84,635,155 grant from the National Institutes of Health for research titled "Multi-Disciplinary Evaluation of Chronic Pelvic Pain Syndrome." Ralph G. Dacey Jr., M.D., the Henry G. and Edith R. Schwartz Professor and chair of neurologic surgery, has been named president of the American Academy of Neurological Surgery, a national organization for the leaders of academic and hospital neurological surgery departments. His tenure as president continues until November 2009. In addition, Dacey was named to a three-year term as chairman of the Accreditation Council for Graduate Medical Education. He earned a doctorate from the University of Illinois in 1961 and 1962, respectively.

Notable, 2008

Beverly J. L. Thomsen, Ph.D., as associate professor of social work (acute and critical care), has received a one-year, $39,868 grant from the American College of Surgeons for research titled "METI fund for research in surgical team based training.

Obituary

Wolfe, professor emeritus of electrical engineering, 72

Charles M. Wolfe, Ph.D., professor emeritus of electrical engineering and one of only five WUSTL engineers to be elected to the National Academy of Engineering, died on Oct. 15, 2013. He was 72.

Wolfe joined Washington University in 1965. In 1971, he became a member of the National Academy of Engineering for his achievement in the synthesis and characterization of semiconductors. He was honored specifically for his work in developing and purifying gallium arsenide compounds for their use in high-speed and digital integrated circuits for a variety of electronic applications.

Wolfe earned a bachelor's degree in electrical engineering from the West Virginia University in 1961 and 1962, respectively. He earned a doctorate from the University of Illinois in 1965.

Wolfe was survived by children David M. Wolfe and Daniel (DeeDee) Michele Foster and grandchildren, Jessica Foster and Jeremy Foster. Wolfe and his wife, Virginia Wolf, were founders of the Wolfe Family Scholarship for children at the University of Illinois in 1987.
Scientists at heart

Jean E. Schaffer tackles the complications of diabetes

Jean E. Schaffer
Titles: The Virginia Minnich Distinguished Professor of Medicine; director, Center for Interdisciplinary Studies of Diabetic Cardiovascular Disease; co-director, Medical Scientist Training Program; associate director, Diabetes Research Training Center, which supports investigations conducting diabetes- and metabolism-related research at the School of Medicine

Family: Husband, Daniel S. Ory, M.D.; son, Benjamin, 16; and daughter, Sara, 11.

Although Schaffer's parents, now retired, were business people, all three of their children are physicians. Schaffer's brother is an orthopedic surgeon, and her sister is a pediatrician.

Hobbies: Schaffer studied piano until she started medical school and now plays for enjoyment. The family travels to go to Powell Symphony Hall to hear the Saint Louis Symphony Orchestra. Schaffer also enjoys gardening, and the window of her office is lined with potting plants. Her parents and master gardeners who passed on some of their prized dahlias.

The complications of diabetes

Schaffer tackles diabetes

BY GWEN ERICSON

Jean E. Schaffer, M.D., the Virginia Minnich Distinguished Professor of Medicine, is co-director of the Diabetes Research Training Center, which supports investigations conducting diabetes- and metabolism-related research at the School of Medicine.

Jean E. Schaffer, M.D. (left), and Rita Brookhart, a doctoral student in molecular biology, look at a gel. "Jean has all of the attributes I associate with the very top research scientists," says Harvey Lodish, Ph.D., professor of biology and of bioengineering at the Massachusetts Institute of Technology.

"The breadth and depth of her knowledge of the molecular and cellular underpinnings of cardiovascular disease are astounding, and she has the rare ability to explain complex medical issues," says Lodish.

Later, the pair went through medical school together, marrying during their second year. Now, they have side-by-side labs.

"We've chosen to run our two laboratories as a larger group with a broader research focus on the cell biology of lipid metabolism," Schaffer says. "There's a lot of cooperation between us and among our students and postdocs. It's been very productive.

Both Schaffer and Ory labs will move to the BJC Institute of Health at Washington University when it is completed in December 2009 — because, as Schaffer says, their labs share so many "toys.

The new building will house the interdisciplinary research centers of Bliedt-M, and Schaffer and Ory direct one of those centers, the Center for Interdisciplinary Studies of Diabetic Cardiovascular Disease. Schaffer and Ory have two children, and, when graduate students and trainees wonder how they will be able to fit family with career, Schaffer tells them, "If you want children and you decide it's the right time for a family, being happy and fulfilled in your professional life helps you to excel at your work.

Lodish says Schaffer seems to be able to do it all with great skill and class: "The way in which she has succeeded in balancing multiple roles — scientist, mentor, mother and spouse — is most impressive.

Looking to the future

Schaffer is co-director of the Medical Scientist Training Program, which integrates elements of both medical school and graduate school — students in the program earn a combined M.D./Ph.D. degree.

Interacting with and training talented young people is another aspect of her work. Schaffer loves, and her lab always has a dozen or so graduate students and postdoctoral trainees.

"The flow of knowledge isn't east from me to the student," Schaffer says. "Often it's the trainee who comes up with the 'aha' moment. I'm thrilled that there are young people coming along who want to carry this kind of work forward.

Lodish says Schaffer is a sought-after teacher and mentor for undergraduate and medical school students, postdoctoral fellows and junior faculty.

"Given that she is such an outstanding role model, I am not surprised that many of her trainees have been young women who have progressed successfully in their own careers," he says.

"Looking to the future," Schaffer says that "she'll go wherever the science takes her.

"Biological mechanisms are likely to be fundamental in one disease," she says.

"I like to think that what we are finding in our area could be translated into improving health for people with other common conditions. I really get excited about the possibility that what we discover will help us diagnose, treat and prevent disease," she says.

One-third of people with diabetes die from cardiovascular disease, Schaffer says. Schaffer tackles the complications of diabetes.

Jean E. Schaffer, M.D. (left), and Rita Brookhart, a doctoral student in molecular biology, look at a gel. "Jean has all of the attributes I associate with the very top research scientists," says Harvey Lodish, Ph.D., professor of biology and of bioengineering at the Massachusetts Institute of Technology.

"The breadth and depth of her knowledge of the molecular and cellular underpinnings of cardiovascular disease are astounding, and she has the rare ability to explain complex medical issues," says Lodish.

Later, the pair went through medical school together, marrying during their second year. Now, they have side-by-side labs.

"We've chosen to run our two laboratories as a larger group with a broader research focus on the cell biology of lipid metabolism," Schaffer says. "There's a lot of cooperation between us and among our students and postdocs. It's been very productive.

Both Schaffer and Ory labs will move to the BJC Institute of Health at Washington University when it is completed in December 2009 — because, as Schaffer says, their labs share so many "toys.

The new building will house the interdisciplinary research centers of Bliedt-M, and Schaffer and Ory direct one of those centers, the Center for Interdisciplinary Studies of Diabetic Cardiovascular Disease. Schaffer and Ory have two children, and, when graduate students and trainees wonder how they will be able to fit family with career, Schaffer tells them, "If you want children and you decide it's the right time for a family, being happy and fulfilled in your professional life helps you to excel at your work.

Lodish says Schaffer seems to be able to do it all with great skill and class: "The way in which she has succeeded in balancing multiple roles — scientist, mentor, mother and spouse — is most impressive.

Looking to the future

Schaffer is co-director of the Medical Scientist Training Program, which integrates elements of both medical school and graduate school — students in the program earn a combined M.D./Ph.D. degree.

Interacting with and training talented young people is another aspect of her work. Schaffer loves, and her lab always has a dozen or so graduate students and postdoctoral trainees.

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