Breakdown of kidney's ability to clean itself may cause disease

BY MICHAEL C. PURDIE

The kidney actively cleans its own tissues like those that occur in the body's own tissues like those that occur in a disease called lupus.

The study appeared in the Jan. 22 Proceedings of the National Academy of Sciences.

Like many mechanical filtering systems, the kidney passes the bloodstream through a series of progressively finer screens. After passing through a structure known as the alveolar basement membrane (GBM), fluid and serum proteins must finally pass through the most selective filter of the kidney, which is comprised of specialized epithelial cells called podocytes. These cells form a web-like barrier to the passage of large serum proteins into the urine.

"The kidney screens 150-200 liters of blood daily, and we were curious as to how the kidney keeps the filter from clogging," said first author Shreeram Akilesh, Ph.D. Co-author Michael Lewis and his co-author, JoAndrea Hoegg, Ph.D., both assistant professors of Immunobiology in Pathology and Immunology. "This is the first time we've been able to understand how these tiny filters are accomplished in the development of new treatments for kidney disease and renal failure, which are among the top 10 causes of death in the United States.

Genome of bacterium that makes rare form of chlorophyll sequenced

BY TONY FITZPATRICK

Researchers at Washington University and Arizona State University have sequenced the genome of a rare bacterium that harnesses light energy by making an even rarer form of chlorophyll called chlorophyll d.

"Chlorophyll d absorbs red light, infrared, low wavelength light that is invisible to the naked eye," Blankenship said. "So in doing this, the cyanobacterium, Acaryochloris marina, is taking on a new role and we're trying to understand how they do it.

When it comes to how a candidate looks, the research found that Republicans generally did better when they appeared more confident and trustworthy, while Democrats experienced success when they appeared more intelligent and likable.

"This is where we get to a point where a campaign looks, the research found that Republicans generally did better when they appeared more confident and trustworthy, while Democrats experienced success when they appeared more intelligent and likable.

Money and appearance influence political campaigns, study says

BY SHEILA NEUMAN

Politics were like high school, Republicans would be the football stars and Democrats would be chess club captains. Those stereotypes are the easiest way to summarize part of the conclusions from a study by Michael Lewis, Ph.D., assistant professor of marketing in the Olin Business School.
T he annual George Washingt on Week, sponsored by the sophomore honorary Lock & Chain, will continue as an old tradi tion: horse and buggy rides around the Da untown area. The celebration begins Mon day, Feb. 18, noon near the student center and concludes after the ball game through Feb. 23. It will include birthday cake appearances by "George" and sirloin pie and a benefit party. "George Washington Week serves in a time for us, the stu dent body, to celebrate not only our nanniversary but our pride in Washington's University said Lock & Chain member Scott Friedmann. "As a service honorary, Lock & Chain stresses the importance of giving back to our community our campus and the greater St. Louis area. Our funding serv ice grant has allowed us to make local, low-income high school and college students take a look at the college application process," Friedmann said.

"Donations made for the horse and buggy rides will help benefi the American Cancer Society. The talks begin for the week:

Monday, Feb. 18: Birthday cake and photo opportunities with "George Washington" from 11 a.m.-1 p.m. outside Olin Library

Tuesday, Feb. 19: Cherry pie and photo opportunities with "George Washington" from 12 a.m.-1 p.m. outside Olin Library

Wednesday, Feb. 20: Horse and buggy rides near the Women's Building from 11 a.m.-1 p.m. Donations from riders are welcome.

Feb. 21: Bob Hannam, asso ciate professor of the College of Architecture and Graduate School of Architecture & Urban Design, will speak about the impact of major community arts programs he has been involved in around drawing classes in a St. Louis housing project and regional events at 5 p.m. in Graham Chapel.

Feb. 22: Lock & Chain will present awards during the mens basketball game at 8 p.m. in the Field House.

Feb. 23: Lock & Chain will host a benefit for Lock & Chain from 9-2 p.m. in the World Student Center.

For more information, contact Friedmann at sfriedm@artsci.wustl.edu.

Earthquake seminar addresses ways to lessen damage

The DANGER STAY BACK 1000!

From WUSTL With love TOP: Judy Musick (left), administrative manager in the Department of Biology in Arts & Sciences, and Judith Tigah, a WUSTL sophomore, examine items donated by the campus community for care packages to U.S. troops serving in Iraq. In February, the WUSTL military care package program — organized by Jill Edwards, project manager in diversity and administration — mailed 10 boxes weighing a total of 176 pounds to Iraq. Inside were snacks, toiletries, and more than 700 home-baked brownies and cookies.

"One of the soldiers receiving packages is Major Dave Goddard, a WUSTL police officer currently serving in Iraq. Since March 2004, the University community has mailed roughly 5,370 pounds of snacks, baked goods, toiletries and sporting goods to troops overseas. The next mailing will be in late March. For more information or to donate, contact Edwards at 935-5633 or jilledwards@wustl.edu.

Helium supplies endangered, threatening science and technology

In America, helium is running out of gas. The element that lifts balloons, spirits and voice ranges is being depleted so rapidly in the world's largest reserve — outside of Amarillo, Texas — that supplies are expected to be depleted within the next eight years.

"We've been giving out helium like blimps and party favors. Its larger industrial use is in semiconductor and technological applications," said Lewis. "We've been giving out helium like blimps and party favors. Its larger industrial use is in the semiconductor and technological applications." NASA uses large quantities on advertising and negative ads impacted outcomes. The research has implications for elections and the issue often hasn't risen to the

Earthquake Awareness Morning program commemorates the anniversary of the New Madrid earthquakes that rocked this region in 1811 and 1812. It was supported by a grant from the State Farm Insurance Co.

The next seminar is scheduled for mid-April. For more information, visit moearthquake.com.

Helium supplies endangered, threatening science and technology

"George Washington Week serves in a time for us, the student body, to celebrate not only our nanniversary but our pride in Washington's University said Lock & Chain member Scott Friedmann. "As a service honorary, Lock & Chain stresses the importance of giving back to our community our campus and the greater St. Louis area. Our funding service grant has allowed us to make local, low-income high school and college students take a look at the college application process," Friedmann said.

"Donations made for the horse and buggy rides will help benefi the American Cancer Society. The talks begin for the week:

Monday, Feb. 18: Birthday cake and photo opportunities with "George Washington" from 11 a.m.-1 p.m. outside Olin Library

Tuesday, Feb. 19: Cherry pie and photo opportunities with "George Washington" from 12 a.m.-1 p.m. outside Olin Library

Wednesday, Feb. 20: Horse and buggy rides near the Women's Building from 11 a.m.-1 p.m. Donations from riders are welcome.

Feb. 21: Bob Hannam, associate professor of the College of Architecture and Graduate School of Architecture & Urban Design, will speak about the impact of major community arts programs he has been involved in around drawing classes in a St. Louis housing project and regional events at 5 p.m. in Graham Chapel.

Feb. 22: Lock & Chain will present awards during the mens basketball game at 8 p.m. in the Field House.

Feb. 23: Lock & Chain will host a benefit for Lock & Chain from 9-2 p.m. in the World Student Center.

For more information, contact Friedmann at sfriedm@artsci.wustl.edu.

Earthquake seminar addresses ways to lessen damage

The Department of Mechanical, Aerospace and Structural Engineering continues its series of seminars and workshops on the topic of reduce and mitigate Earthquake Damage through Mitigation," was offered Fed. 12 at the Charles F. Knight Executive Education Center. The seminar was sponsored by the Missouri Emergency Management Agency, which was seeking a presentation to an interested audience of public officials at the local and regional level, followed by panel discussion.

The program was scheduled during Missouri Earthquake Awareness Month and commemorates the anniversary of the New Madrid earthquakes that rocked this region in 1811 and 1812. It was supported by a grant from the State Farm Insurance Co.

The next seminar is scheduled for mid-April. For more information, visit mo-earthquake.com.

Helium supplies endangered, threatening science and technology

"George Washington Week serves in a time for us, the student body, to celebrate not only our nanniversary but our pride in Washington's University said Lock & Chain member Scott Friedmann. "As a service honorary, Lock & Chain stresses the importance of giving back to our community our campus and the greater St. Louis area. Our funding service grant has allowed us to make local, low-income high school and college students take a look at the college application process," Friedmann said.

"Donations made for the horse and buggy rides will help benefi the American Cancer Society. The talks begin for the week:

Monday, Feb. 18: Birthday cake and photo opportunities with "George Washington" from 11 a.m.-1 p.m. outside Olin Library

Tuesday, Feb. 19: Cherry pie and photo opportunities with "George Washington" from 12 a.m.-1 p.m. outside Olin Library

Wednesday, Feb. 20: Horse and buggy rides near the Women's Building from 11 a.m.-1 p.m. Donations from riders are welcome.

Feb. 21: Bob Hannam, associate professor of the College of Architecture and Graduate School of Architecture & Urban Design, will speak about the impact of major community arts programs he has been involved in around drawing classes in a St. Louis housing project and regional events at 5 p.m. in Graham Chapel.

Feb. 22: Lock & Chain will present awards during the mens basketball game at 8 p.m. in the Field House.

Feb. 23: Lock & Chain will host a benefit for Lock & Chain from 9-2 p.m. in the World Student Center.

For more information, contact Friedmann at sfriedm@artsci.wustl.edu.
Howard named chief counsel to WUSTL School of Medicine

By BETTY MILLER

William F. Howard, a longtime higher-education attorney, has been appointed associate chief counsel and chief of the School of Medicine. In addi- tion to serving as the senior attorney for the School of Medicine, Howard also will serve as deputy general counsel for the University.

Howard will assume overall leadership for the delivery of legal services to the School of Medicine, supervising the work of the Uni- versity’s associate general counsels as well as directly providing advice and counsel on all aspects of the school’s operations, including reg- ulations, corporate transactions, clinical operations, research affairs, risk management, and strategic planning.

Howard was most recently interim vice president and gener- al counsel to the University of Wash- ington in Washington, D.C., where he was responsible for a wide range of legal, opera- tional and financial aspects of the university and its medical center.

Howard has a key leader in plan- ning, negotiating and implement- ing the spinoff and affiliation of the university’s Health Sciences group into a tax-exempt corporation, constructing the univer- sity’s HMO subsidiary and in transactions involving the university’s operations to a new limited part- nership. He joined George Washington in 1990 as deputy general counsel.

Before joining George Wash- ington, Howard was deputy chief of the educational affairs division and assistant attorney general of the Maryland Office of the Attorney General, where he provided legal counsel to the University System of Maryland and its divisions.

"Bill has an extraordinary level of experience in handling the legal affairs of a university med- ical center," said Michael Cannon, executive vice chancellor and gen- eral counsel.

"His 20 years of senior leader- ship and experience representing universities in all their dimen- sions should enable him to benefit Washington University," he said.

Howard said he is looking forward to working with Can- non and Chancellor Mark S. Wrighton.

"I have learned about Washington University and par- ticularly its medical school, the more excited I became about the prospect of coming here and making a contribution to its mis- sion," Howard said.

"The School is obviously at the top of the class nationally, and it presents a host of exciting chal- lenges and opportunities to be associated with physicians and researchers who are at the cutting edge of science today. If I can help the school in some small way, I’d feel it was very rewarding," he said. Earlier in his career, Howard was an associate attorney with Venable, Barber and Howard in Baltimore and was a law clerk to Chief Judge Harrison L. Winter of the U.S. Court of Appeals for the Fourth Circuit.

As a native of Cleveland, Ohio, Howard earned a law degree from the University of Michigan Law School in 1984, where he finished second in his class. He earned a bachelor’s degree in government from Michigan State University in 1980, graduating third in his class. He is a member of the National Association of College and University Attorneys and the Washington Metropolitan Area Corporate Counsel Association. Howard also was involved in community activities in the Baltimore area, including several environmental groups and the Alzheimer’s Association, Greater Maryland Chapter.

"Bill’s robust track record in legal leadership stems not only from his formidable legal and technical skills, but also from his talents as a great listener and brainstormer on business and legal issues alike," Cannon said. "We’re just thrilled with the commitment Bill has made to Washington University."

Wrighton, who chairs the Search and Appointments Committee, said: "Bill has an extraordinary level of experience associated with physicians and researchers who are at the cutting edge of science today. If I can help the school in some small way, I’d feel it was very rewarding," he said. Earlier in his career, Howard was an associate attorney with Venable, Barber and Howard in Baltimore and was a law clerk to Chief Judge Harrison L. Winter of the U.S. Court of Appeals for the Fourth Circuit.

As a native of Cleveland, Ohio, Howard earned a law degree from the University of Michigan Law School in 1984, where he finished second in his class. He earned a bachelor’s degree in government from Michigan State University in 1980, graduating third in his class. He is a member of the National Association of College and University Attorneys and the Washington Metropolitan Area Corporate Counsel Association. Howard also was involved in community activities in the Baltimore area, including several environmental groups and the Alzheimer’s Association, Greater Maryland Chapter.

"Bill’s robust track record in legal leadership stems not only from his formidable legal and technical skills, but also from his talents as a great listener and brainstormer on business and legal issues alike," Cannon said. "We’re just thrilled with the commitment Bill has made to Washington University."

Children’s Discovery Institute funds new research initiatives, scholars

The Children’s Discovery Institute has awarded more than $1 million to eight teams of researchers, each led by an investigator from St. Louis children’s hospitals. Among the topics for the new research initiatives are stem cell research, the genetics of neurofibromatosis type 1 and systems biology.

"These projects were selected for their potential to advance the understanding of children’s health and disease," said Dr. Jennifer Gitlin, director of the Children’s Discovery Institute, which is located at St. Louis Children’s Hospital.

Gitlin said that the Children’s Discovery Institute funds research projects that address new questions and approaches in the field of children’s health.
Global Warming • Eating Green • Politics of Motherhood

W. H. FREEDMAN

Feb. 15-27 at 7:30 p.m. in the Edison Theatre, 530 S. Grant.

Energy, Environmental & Chemical Engineering Seminar Series.

Wallace Rouzer, prof, of biochemistry, U. of Ala. (4:30 p.m. coffee.) McMillan Hall, Rm. 212. 935-9541.


"Myosin VI In Vivo: What Properties are Relevant for Us?" Ralph Goldsmith, prof, of biochemistry. McMillan Hall, Rm. 725. 935-6160.


"Applications of Information Technology Workforce Development Methods for QTL Mapping in Pedigrees." B. A. Horsley, prof, of liberal arts & the social sciences, Wright State Univ. (3:45 p.m. coffee.) Maternity Bldg., Rm. 725. 362-3315.

"Everybody is involved in a mistake or a practical joke, everybody is playing some kind of role in this thing, and in the end it is all done in fun, the Pranksters are never the wiser and you really feel ac- companying grace." The character is referred to as "the Prankster," a religious and academic institution of higher education.

"Marketing the IT Organization Internally." Jeffery S. Matthews, senior lectur- er in business. Marlow thinks that hardness is an intrepid soul; however, his incredible luck, putting his foot on the furniture and ignoring the old man's warnings, is...
WUSTL to present Japanese Film Festival Feb. 15 and 16

By Liam Ottam

Washington University will host free screenings of two recent Japanese films this week. "Hanging Garden" (2005), beginning at 7:30 p.m. Feb. 15 in Edison Theatre, explores the quiet loneliness of a soul, while "Tono Sanso" (2009) and "9 Souls" (2005), screened Feb. 16 in Edison Theatre, follows Eriko Ikeda, a middle-class mother who establishes an unconventional family policy of complete truthfulness and transparency. Yet secrets never- esthemes remain: Eriko’s teenage daughter stages trysts at the love hotel where she was conceived, while her husband and son each commit an infidelity with the same courier. Through it all, Eriko struggles to keep her own depression hidden from the others. "Linda Linda Linda" (2005), beginning at 7:30 p.m. Feb. 16, tracks the trials and triumphs of an all-girl band on the cusp of adulthood. Set in a high school on the outskirts of Tokyo, the story follows a group of friends who decide to perform at an upcoming school festival. Two days before the concert, one of their guitarists and lead singer quit the band. To avoid canceling the remaining shows, the band recruits a Korean foreign exchange student, Son (Bae Doo- nam), who leads the band despite not being fluent in Japanese. Directed by Koki Yukisada, "Linda Linda Linda" fea- tures original music by Jana Iida and features The Sound Pump, Pump, as well as songs by Japanese punk band The Blue Heavens and a cameo appearance by The Ra- mones. For more information, contact the Film & Media Studies Program at 935-4056.

Music

Thursday, Feb. 14
8 p.m. Jazz at Holmes. Jan Shapiro, vocalist. (Also 8 p.m. Feb. 23.) Edison Theatre. 935-6543.

Friday, Feb. 15
6 p.m. Kemerer Concert Series, Steiner’s Art Museum. Larry Johnson, professor of music. Reill, professor of history, UCLA. (Reception follows.) Women’s Bldg. Formal Lounge. 935-3869.

Saturday, Feb. 16
7:30 p.m. Victorian Music Society in Concert, Anheuser-Busch Hall. 935-3918.

On Stage

Thursday, Feb. 14

Friday, Feb. 15
8:45 p.m. "The Kemper Presents" series continues with a winter concert of experimental rock and American roots music. Anheuser-Busch Hall, Rm. 309. 935-7966.

Saturday, Feb. 16
7 p.m. "Kemper Presents" series continues. "Hanging Garden" follows the quirky soul of a dys- loplores the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soul of a dys-
plorere the quirky soil
Kidney
Filter system involved in own maintenance

- from Page 1

Bioethicists' personal cancer experiences to be studied

Motivated by her own experiences living with a life-threatening illness, Rebecca Dresser, J.D., the Daniel Nives Kirby Professor at the School of Law and Professor of Ethics at the School of Medicine, has convened a nationally-renowned group of bioethicists to study the topic "Bioethics and Cancer: When the Professional Becomes Personal."

Dresser received a $79,983 grant from the Greenwall Foundation to conduct groundbreaking research and prepare materials based on the unique perspectives of bioethicists who all have a personal experience with cancer. Of the 12 group members, five have had cancer themselves, and three have cared for spouses with cancer. The group members, who will develop a website and an educational "living with" program, will contribute to the understanding of many bioethical concerns. The website will provide a resource for patients, families and health care workers. Dresser said that the project is a "thought experiment" to understand the ethics of cancer care, social attitudes toward people with cancer and their caregivers and policies affecting cancer care and research.

"We will then design publications and presentations to enrich and challenge current thinking about the ethics of cancer patient care, social attitudes toward people with cancer and their caregivers and policies affecting cancer care and research," she said. In addition to Dresser, other members of the project group are: Dan W. Brock, Ph.D., the François Glessner Lee Professor of Medical Ethics at Harvard Medical School; Arthur W. Frank, Ph.D., professor of sociology and director of the program in medical ethics at the University of Wisconsin-Madison Medical School; Arthur G. Lurie, M.D., a professor of internal medicine and bioethics at the University of Texas Health Science Center at Houston; and John S. Conley, J.D., Ph.D., the Adelle Clark Harding Professor of Medical Ethics at the University of Chicago. Patricia A. Marshall, J.D., professor of law and anthropology at Case Western Reserve University; and A. Robertson, J.D., the Vinson & Elkins chair at the University of Texas Law School.

Though personal experience is not essential to thoughtful analysis, living with a life-threatening illness adds a new dimension to a person's understanding of many bioethical concerns," she said.

Campus Watch

Future applications
Harvesting solar power through plants or other organisms that would be genetically altered with chlorophyll d gene could make them solar-power factories that generate and store solar energy.

Bacterium
Genetic map of a unique organism
- from Page 1

While researchers studied the mouse lacking FcRn for longer periods of time, they saw evidence that antibodies were metabolizing in the kidney. In another experiment, researchers gave the mice injections of large quantities of proteins to saturate the clearance system. They followed those injections with what would normally have been a harmlessly small dose of an antibody potentially toxic to the kidney. The mice developed kidney damage as a result. Researchers believe this was because they couldn't clear the toxic antibody from the GMR quickly enough.

Synthesis, as the rest only makes chlorophyll a. Also, the altered organism, using the chlorophyll d gene could become a "super plant" because it could become a "super plant" because it could grow twice as tall as other plants and harness energy from the sun. This model is similar to how Acaryochloris marina actually operates in the South Pacific, specifically Australia's Great Barrier Reef. Discovered just 11 years ago, the cyanobacterium lives in symbiotic relationship with a sponge-like marine animal popularly called a sea spirit. The Acaryochloris marina lives beneath the sea sponges, which is a marine animal that attaches to rocks just below the surface of the water. The cyanobacterium absorbs "red edge" light through the tissues of the plant's sea sponges.

Fat and happy
The genome, said Blankenship, "is a nice happy, Acaryochloris marina lies down there using that for red light on top of one else can use. The organism has never been under very strong selection pressure to be lean and mean like other bacteria. It's kind of in a sweet spot. Living in this environment is their best chance and women have a one-in-three chance of having cancer. While bioethics teachers and other scholars spend considerable time examining issues related to serious illnesses such as cancer, few have themselves experienced such illnesses, Dresser said.

"Though personal experience is not essential to thoughtful analysis, living with a life-threatening illness adds a new dimension to a person's understanding of many bioethical concerns," she said.

REBECCA DRESSER

Postmedia News

Advocates for personal cancer experiences to be studied

When researchers studied the mouse lacking FcRn for longer periods of time, they saw evidence that antibodies were metabolizing in the kidney. In another experiment, researchers gave the mice injections of large quantities of proteins to saturate the clearance system. They followed those injections with what would normally have been a harmlessly small dose of an antibody potentially toxic to the kidney. The mice developed kidney damage as a result. Researchers believe this was because they couldn't clear the toxic antibody from the GMR quickly enough.

"This is the first clear demonstration that the filter system in the kidney isn't just a passive mechanical filter it's actually involved in its own maintenance," Aklesh said.

"It also provides us with a nice mechanism for explaining how the normal function of this filter may be breaking down in ways that result in kidney disease and damage," Aklesh said.
Two business startups collect $75,000 in seed funding

Student entries dominate the Olin Cup field in the 10th annual contest

By Shula Neuman

Two early-stage companies received commitments for funding at the annual Olin Cup competition Feb. 7 at the Olin Business School. The top award of $50,000 went to Is That One Good? (ITOG), a Web site (itog.com) that allows consumers to rate product recommendations, hold data that influence the ability to discover new magazines or restaurants without switching Web sites. In addition to collecting the grant, the company, founded by Richard Feldman, M.B.A. 2008, won the $100,000 student cash prize.

The recipient of the $30,000 award is MedExceed, a medical device company that facilitates the recovery process for people affected by temporal bone injuries. Geschke and his team have received a three-year, $600,000 grant from the U.S. Department of Energy for research titled "Mechanism of Energy Storage by Chloroplast Membranes of Green Photosynthetic Bacteria." "We found that the energy that is stored in chloroplasts can be used to power a battery that regenerates itself by creating internal energy so that book lovers will have an opportunity to discover new magazines or restaurants without switching Web sites. In addition to collecting the grant, the company, founded by Richard Feldman, M.B.A. 2008, won the $100,000 student cash prize.

The recipient of the $30,000 award is MedExceed, a medical device company that facilitates the recovery process for people affected by temporal bone injuries. Geschke and his team have received a three-year, $600,000 grant from the U.S. Department of Energy for research titled "Mechanism of Energy Storage by Chloroplast Membranes of Green Photosynthetic Bacteria." "We found that the energy that is stored in chloroplasts can be used to power a battery that regenerates itself by creating internal energy so that book lovers will have an opportunity to discover new magazines or restaurants without switching Web sites. In addition to collecting the grant, the company, founded by Richard Feldman, M.B.A. 2008, won the $100,000 student cash prize.

Of note

Jacques Baenitzeder, M.D., Ph.D., professor of pathology and immunology and of cell biology and physiology, received a one-year, $50,000 National Institutes of Health Director’s Bridge award for research titled "Oligosaccharide Structure and Function in Recognition." Richard Feldman, M.B.A., Ph.D., research professor of physics in Arts & Sciences, was mentioned in the October 2007 issue of *Science* magazine, the Observer. Braver is now an officer in a professional organization, the Aesthetics and the Wine-Throated Hummingbird. All the records show that the Wine-Throated Hummingbird has a song that is unique to the Clayton community.

Have you done something noteworthy?

- Have you presented a paper? Won an award? Received a grant? Been elected to a professional organization? The Record will help spread the good news.

- Please send a brief note with your full name, highest-earned degree, current department and title, and a description of your professional activities to the Notables section. The Record will help spread the good news.

Knowledge of Letters and Spelling Across Languages...

Washington University received the 2007 Clayton Chamber of Commerce's Community Award Jan. 29 at a ceremony at the Ritz-Carlton in Clayton, Mo. The Community Award recognizes an individual or company whose contributions have had a major impact on the Clayton community...

In print

Todd Brewer, Ph.D., Ian Dobkin, Ph.D., and Kathleen McErcourett, Ph.D., an associate professor of psychology in Arts & Sciences, were featured in "Waving Stars" in the Association for Psychological Science's monthly magazine, the Observer. Brewer was mentioned in the October 2007 issue of the Los Angeles Times and the St. Louis Post-Dispatch.

Carter C. Rovell, Ph.D., professor emeritus of English in Arts & Sciences, has a new book published in the December 2007 issue of the literary magazine. "Go To College," "Living Like a Writer in the Wine-Throated Hummingbird" and "Songs of the Wine-Throated Hummingbird" were published along with part of a science-fiction novel in progress, titled "The Visitor’s Other World." All the pieces were previously unpublished works except for "Songs of the Wine-Throated Hummingbird," which was reprinted from his "Winning the Dust Bowl."
A remarkable vision

Jack Ladenson brings hope to patients throughout the world

Life in laboratory medicine strives for explicit and predictable plans of action: Test A leads either to Diagnosis B or C or to follow-up Test D. When he looks back on his life so far, though, Jack Ladenson, Ph.D., the Oree M. Carroll and Lillian B. Ladenson Professor of Clinical Chemistry, often finds an entertaining lack of predictability. He laughs loudest when he remembers how long he originally thought he’d stay at Washington University: “no more than three to five years.”

Ladenson came to the University more than three and a half decades ago. A few years after his arrival, researchers developed the ability to make monoclonal antibodies. The immune system uses antibodies to seek out invaders and label them for attack and disposal. Monoclonal antibodies promised to put the abilities of these molecular bloodhounds at scientists’ disposal.

“Any at once, a number of people were anxious to give us research money to develop monoclonal antibodies,” Ladenson says. “That was kind of extraordinary.”

In the mid-1980s, Ladenson’s lab developed a monoclonal antibody that bound to a form of an enzyme, creatine kinase (CK-MB), that was produced mainly in heart cells. Because they were working with several different antibodies at the time, Ladenson asked research associate Ronnie Landis to give them names. Landis, an Arnold Schwarzenegger fan, named the CK-MB antibody Conan, after the Robert E. Howard sword-and-sorcery hero beloved by the big screen by Schwarzenegger.

Soon, Ladenson was taking the first of many overseas trips to countries like Eritrea, Kenya and Bhutan to see what he and others could do to help. Among his discoveries: “The best way to learn what diagnostic services are most needed in a particular country is to talk to the country’s hard-working health-care professionals.”

“All of us who guessed what would be the most utilized tests in Eritrea guessed wrong,” he says. “It was a very useful insight. Do not presume you know more than the people in a country just because they happen to be poor and born in an underdeveloped place.”

If a clinical test is needed in Eritrea and the test the patient’s sample can serve to logistically challenging imposed by transport from that country, Ladenson has worked out a system to have the test performed at Barnes-Jewish Hospital and interpreted by WUSTL faculty. As testing starts to be performed in the country, Ladenson has developed a network of corporate donors of diagnostic equipment. “We’re giving them ‘hearts,’” he says. “They’re out there. If some initially tell me no, I don’t mind. I just keep trying.”

In many ways, Ladenson has become an expert recruiter. He has learned how to find and develop relationships with foreign governmental officials who are most willing and able to help improve health care in their countries. And he regularly identifies young, established medical professionals interested in spending several years overseas.

David Windus, M.D., professor of medicine, has joined Ladenson on several trips to Eritrea and Bhutan. The trips started after a diabetes test became available in Eritrea that had been used in the United States in the 1960s and ‘70s.

“Before we get to Eritrea, it’s a test,” he says. “When we get there, it’s a test.”

Windus attributes Ladenson’s dedication to a strong egalitarian dedication to a strong egalitarian streak equal access to good care. Ladenson speaks with wonder of helping save lives in Third World nations that are taken for granted in the United States.

“When I first became involved in this work, it was frustrating because ‘What can I do?’ was the central question,” he says. “But now I think we’ve kind of figured out a way to approach some of those problems.”

New challenges

Ladenson is interim director of the Division of Laboratory and Genomic Medicine. “Jack is a sophisticated clinical chemist who made a strong commitment to the growth and development of our laboratory and genomic medicine division, which is one of the very best,” says Emil R. Umanec, M.D., the Paul and Ellen Lacy Professor and former head of pathology and immunology. “Jack’s apparent laissez-faire attitude, which we all enjoy, is combined with effective and accomplished leadership.”

Ladenson hopes to step down from the interim directorship soon. He’s going to try active in research and in Pathologists Overseas, but he and his wife, Ruth, recently purchased a house in Texas where they hope to spend some time with their family, friends and dogs. “I don’t mind. I just keep trying.”

Overseas, but he and his wife, Ruth, recently purchased a house in Texas where they hope to spend some time with their family, friends and dogs. “I don’t mind. I just keep trying.”

“Jack started this years ago as a communications device with my three-teenage son,” he says. His son is now busy with other things, but Ladenson continues to use it, finding it a great stress release.

His son, Jeff, a specialist in foreign disaster relief, now lives in Morocco with his wife, Lauren, a U.S. foreign service officer, and their three children: Hana, Michelle, a cultural anthropologist, lives in Texas with her husband, John, a pediatric anesthesiologist, and a newborn son. “We try to stop by Morocco or Texas when we can,” Ladenson says. “My wife, Rivers, and I have been visiting the children and grandchildren as often as possible.”

Jack Ladenson

Born: April 8, 1942

Education: B.S., Pennsylvania State University; Ph.D., Washington University in St. Louis

Family: Wife, Rivers, daughter, Michelle, and son-in-law, John Zhong; son, Jeff; and daughter-in-law, Lauren; grand- daughter, River, and sons, Zhang and James; and Zella Ladenson.

WASHINGTON UNIVERSITY IN ST. LOUIS
Feb. 14, 2008