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Longevity factors to be studied

By GWYN ECKISON

School of Medicine researchers will head an ambitious study of people who live exceptionally long and healthy lives to identify the factors that account for their longevity.

A team led by Michael A. Province, Ph.D., professor of biostatistics and genetics, received a five-year, $4 million grant from the National Institute on Aging (NIA) to establish a Data Management and Coordinating Center (DMCC) for the "Exceptional Longevity Family Study."

"The trick is not just to live long, but to live disease-free," Province said. "There is preliminary evidence from many sources that genes play a significant role, especially for the oldest of the old, those who live past 100."

The DMCC will be the cornerstone of the multicenter longevity project, linking four study centers (three in the United States and one in Europe) funded by the NIA. The study centers will gather genetic and health information from more than 3,000 long-lived volunteers and their descendents, and the DMCC will provide a central facility to tabulate and analyze the data gathered.

"There will be a great deal of data," Province said. "We will be looking for genetic risks for cancer, heart disease, stroke, Alzheimer’s disease, diabetes — all the major risks, as well as looking about personal habits, looking at medical histories and doing clinical tests.

The DMCC will also advise the study centers on detailed experimental design and ensure stringent quality control of the data for the duration of the study.

The project was funded by the NIA with a $222,000 grant, and is led by a biostatistics and genetics professor at the University of North Carolina, Chapel Hill.

"Teaching Jazz" institute supported by NEH grant

By LAM OTTEN

Gerald L. Early, Ph.D., the Merle Kling Professor of Modern Letters and director of The Center for the Humanities, has received a $232,000 grant from the National Endowment for the Humanities (NEH) Division of Education Programs. The grant will fund "Teaching Jazz as American Culture," an NEH Summer Institute aimed primarily at public high school teachers that will be held at the University in 2005.

Under the auspices of The Center for the Humanities, the institute will examine how interdisciplinary approaches to popular music, specifically jazz, can enrich a variety of subject matter, broaden understandings of American history and literature; and reveal new perspectives on race and gender in the United States.

"Teaching Jazz is intended to re-imagine how popular culture can be taught," said Early, who also is a professor of African and Afro-American Studies and of English, both in Arts & Sciences.

"Most attempts to use popular culture in schools have been misguided or disingenuous. It is hoped that the summer institute will offer teachers new and engaging ways to teach popular music as a humanities subject."

At the same time, he added, "It is also hoped that this endeavor will lead to new ways of teaching the humanities and new ways of seeing the humanities as cross-disciplinary and interdisciplinary."

One of only 14 NEH Summer Institutes for 2005, Teaching Jazz has also been designated part of "We the People," an NEH initiative designed to explore significant events and themes in American history and culture. Instructors will include some of the nation’s leading scholars of jazz music and American culture, including the University’s Jeff Smith, Ph.D., director of the Film & Media Studies Program in Arts & Sciences.

The curriculum will approach jazz from social, cultural, and intellectual perspectives. For teachers in St. Louis MSP partner districts Ferguson, Glendale, Hazelwood West, Kirkwood and Richmond Heights School District — during the outreach program’s Mathematics and Science Partnership curriculum-planning session.
null
School of Medicine Update

It's all in the genes

Gene linked to alcoholism and depression

BY JIM DRYDEN

A national team of investigators led by Washington University psychiatric geneticists has identified a gene that appears to be linked to both alcoholism and depression.

The study, published in the September issue of the journal Human Molecular Genetics, is the first to identify a specific gene associated with both depression and alcoholism.

“Clinicians have observed a connection between these two disorders for years, so we are excited to have found what could be a molecular understanding for that association,” said principal investigator Allen M. Goate, D. Phil., the Samuel and Mae S. Ludw."
Faculty Stahl, Turner to lecture for Assembly Series

BY MARY KASTENS

P hilip D. Stahl, a prominent cell biologist and physiologist who has trained many PhDs who is internationally recognized for his accomplishments in computer networks and telecommunication, will receive the University’s 2004 Presser Achievement Award. Stahl was selected for his contributions as both a scientist and a mentor. Stahl will receive the Arthur Holly Compton Faculty Achievement Award at the University’s 2004 Faculty Achievement Awards Ceremony on Tuesday, Sept. 21, at 12:30 p.m. in the Givens Hall Reception Room.

N o. 1 ranked in cell biology, Stahl’s research has spanned topics from the cell biologist’s dream of making tissue culture cells and model organisms that can function as potential disease models to the structural and functional properties of pathogens and their interactions with the host. His work has created new paradigms both in research and teaching.

Stahl combines his numerous scientific accomplishments with an unwavering dedication to education and mentorship. He was the first to receive the Annual Symposium on Cell Biology Society Spring仪器 Award from the American Society for Cell Biology for his contributions to research and teaching.

Stahl’s work has also been an avid supporter of the educational mission of the University. He has been instrumental in the creation of the new Saff Learning and Teaching Center, which will foster formal and informal interactions among students, faculty and staff and provide state-of-the-art teaching and seminar facilities. Stahl’s contributions to his investigations in the mechanisms involved in endocytosis, the process through which cells absorb external substances such as proteins, is studying endocytosis and signal transduction in cancer cells in order to understand how growth signals are integrated into the cell. He is also investigating ways in which pathogens and cellular debris are transported into cells inside which they can be broken down and destroyed.

Turner’s early work on high performance computer networks and telecommunications systems and networks played a critical role in the development of the modern Internet. A flexible, reliable, and efficient backbone technology that was developed to enable easy access to data and video applications to exist in a common, high-quality communications infrastructure.

With colleagues Jerome R. Cox Jr. and Curtis Parlar, Turner has led a series of major research projects that have contributed to the development of high-performance network technology and multimedia applications. In 1997, the three also founded ComNetworks, a startup company that developed electronic components for Internet routers with aggregate capacities of more than 10 trillion bits per second.

In 2000, the company was acquired by Cisco Systems, which is expected to complete soon new high-performance systems based largely on the ideas and technologies developed at Georgia Tech.

Turner’s recent work centers on methods for improving the performance of Internet routers, making them more flexible by enabling them to host network plug-ins that serve as network processors for many different applications. Turner has authored many widely cited publications and holds more than 50 patents in high-performance communications systems.

University Events

Dinh, who worked on Patriot Act, to talk Sept. 22

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Forsyth House is newest addition to South 40

BY NEIL SCHONHERR

Slightly more than a year after Most Residence Hall was imploded, a new dormitory has risen in its place.

The 53,495-square-foot Forsyth House was completed this summer and opened for students this fall. It is located near the intersection of Big Bend Boulevard and Shepley Drive.

"Forsyth is a great place to live," said freshman resident Nick Hol. "It doesn't even feel as if you were living in a dorm. All the residents and the RAs (resident assistants) are so open and friendly.

"I could not imagine living anywhere else on campus."

On the first-floor, the state-of-the-art building features a large common room with a fireplace and adjoining library, a full-service kitchen for catering and special events, a computer lab, a multipurpose room for large work projects and a soundproof music practice room.

Each floor has its own common room for meetings and social gatherings, as well as a small kitchenette. There are also two study rooms per floor, ideal for individual or group work.

The building houses 169 freshmen and seven resident assistants. Along with Nemerov House, it is part of the Weyerman Crew Residential College.

"Forsyth House is part of our ongoing effort to improve housing for our undergraduates," said Justin X. Carroll, assistant vice chancellor for students and dean of admissions.

"This beautiful new facility allows us to continue the development of our residential college program, thereby supporting students' personal and intellectual development.

"Our residential colleges offer students easy access to academic support services and more frequent contact with our wonderful faculty through the Faculty Fellows and Faculty Associate programs.

There are currently nine residential colleges in the South 40, each housing approximately 300 students and comprising two or three separate residence halls that form a single community.

The new residence hall features numerous amenities, including (counterclockwise, from above) a large common room with fireplace; two study rooms, a small kitchenette and a common room on each residential floor; round-ed staircases; and in-house laundry facilities.

Thursday, Sept. 23
6 p.m. Jazz at Holmes. Steve Schenkel, guitar; and his group, Holmes Lounge. 935-4841.

On Stage
Friday, Sept. 17
8 p.m. St. Louis Black Repertory Company presents "Tell Me Somethin'" by Dael Orlandersmith. For tickets: 534-3810.

Saturday, Sept. 25
7-10 a.m. Yom Kippur Explanatory Service, Ein Shalom. 935-3606.

Worship
After graduating, he became an Agency. Throughout the country. Contributed greatly to the world's team, Barnathan's reporting has BusinessWeek's Asia. Jared Green has been 25 shopping centers here and the estate boom in St. Louis, he began he earned a juris doctoris in 1955. Upon receiving a degree in acc The next Irons in 1971, he became assistant professor of business economics and finance in the Ol School and served as the mu The chairman of the committee, Marshall joined the faculty in 1974, He has received the Chairman's Award for Service in 1976, Shearer completed his clinical education at the University in 1970, From the University in 1990, he was sworn 6th from Page 1 following the 1960s and '70s real estate boom in St. Louis, he began involved in many developments in the metropolitan area and about 25 shopping centers here and throughout the country. In addition to real-estateinvestments, Green is founder and direc- tor of Royal Banershares and is founder of National States Insurance Co. As an active participant in a number of local and national organizations, Green has been associated with many leadership positions in the Jewish Feder- ations, the United Jewish Appeal and Jewish Agency. He is on the boards of the United Jewish Appeal and the Jerusalem Foundation. In addition, he has served as chairman of the committee to build the Holocaust Museum St. Louis and served as the muse- um's national chairman. As an alumnus, Green remains involved in the University's New York campus and in the St. Louis School. He guided the University in planning the 1990-91 capital campaign and chaired the Kenes challenges campaign that secured funds for Anderson Hall. Furthermore, he serves on the board of math education at St. Louis & Sci- ence, taught an graduate school of elementary teachers on not only the undergraduate level, but also on methods teachers can use to help children under- stand what they're doing for fun, too, by two, then by four, and then by 10 and finally, then by 100. The hardest factor for children in learn is serving as principal and head of the department in numerical order, Conrady sug- gests it's an important skill that it's an important tool teach- ing mathematics to young people. In WestEd, he is director of the American Council of Science Teachers and is a fellow in the National Academy of Sciences and in a member of the National Building Research Board. Sincoff has served his alma mater as a member of the Board of Trustees on the Board of Trustees and as an officer of the University Board of Governors. In addi- tion, he chaired the School of Architecture's Dean's Council and co-chaired the Sam Font Center for the Creative Arts. He has received a doctorate in the University's School of Mathematics and he received the Nobel Prize in Economics in 1972. After graduating, he became an Agency. Throughout the country. Contributed greatly to the world's team, Barnathan's reporting has BusinessWeek's Asia. Jared Green has been 25 shopping centers here and the estate boom in St. Louis, he began he earned a juris doctoris in 1955. 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He is on the boards of the United Jewish Appeal and the Jerusalem Foundation. In addition, he has served as chairman of the committee to build the Holocaust Museum St. Louis and served as the muse- um's national chairman. As an alumnus, Green remains involved in the University's New York campus and in the St. Louis School. He guided the University in planning the 1990-91 capital campaign and chaired the Kenes challenges campaign that secured funds for Anderson Hall. Furthermore, he serves on the board of math education at St. Louis & Sci- ence, taught an graduate school of elementary teachers on not only the undergraduate level, but also on methods teachers can use to help children under- stand what they're doing for fun, too, by two, then by four, and then by 10 and finally, then by 100. The hardest factor for children in learn is serving as principal and head of the department in numerical order, Conrady sug- gests it's an important skill that it's an important tool teach- ing mathematics to young people. In WestEd, he is director of the American Council of Science Teachers and is a fellow in the National Academy of Sciences and in a member of the National Building Research Board. Sincoff has served his alma mater as a member of the Board of Trustees on the Board of Trustees and as an officer of the University Board of Governors. In addi- tion, he chaired the School of Architecture's Dean's Council and co-chaired the Sam Font Center for the Creative Arts. He has received a doctorate in the University's School of Mathematics and he received the Nobel Prize in Economics in 1972. After graduating, he became an Agency. Throughout the country. Contributed greatly to the world's team, Barnathan's reporting has BusinessWeek's Asia.
of Note

Robert A. Pollak, Ph.D., the Robert L. Henry Distinguished Professor of Economics in Arts & Sciences, has received a three-year, $863,435 grant from the National Institute on Aging for research titled “The Many Faces of Longevity and Intergenerational Resource Allocation.”

Bradley Stoner, M.D., Ph.D., associate professor of medicine, has received a one-year, $122,781 grant from the American Diabetes Association for research titled “Identification of a Gene for Aggressive Prostate Cancer.”

Randall S. Jette, M.D., associate professor of medicine, has received a one-year, $100,000 grant from the Urological Research Council for research titled “Prostate Cancer: A Comprehensive Approach.”

Michael A. Harris, Ph.D., associate professor of pediatrics, has received a three-year, $122,781 grant from the Cystic Fibrosis Foundation for research titled “Enhancing Rehabilitation of Children with Cystic Fibrosis: A Guide for Successful Aging.”

Daniel B. Rosenbluth, M.D., associate professor of emergency medicine, has received a one-year, $98,000 grant from the U.S. Environmental Protection Agency for research titled “Role of Metal Ions in the Activation of Human Genotoxic Enzymes.”

Sandeep Tripathy, M.D., Ph.D., associate professor of oncology and gastrointestinal oncology, has received a two-year, $80,000 grant from the American Cancer Society for research titled “Clinical Trials for Pediatric Spinal Malarial Atopy.”

Joseph Borelli, M.D., assistant professor of orthopedic surgery, has received a one-year, $43,290 grant from the AO Research Foundation for research titled “In Vivo Cartilage Changes After Mechanical Injury.”

Cansuullo Williams, M.D., assistant professor of medicine, has received a one-year, $30,600 grant from the National Institutes of Health and the University of Michigan for research titled “Mechanical Properties of African American Aging.”

Keith Baumgarten, M.D., resident in orthopedic surgery, has received a one-year, $18,000 grant from NASA for research titled “Mechanical Properties of Arthropod.”

Anne Connolly, M.D., chair and professor of computer science, has received a three-year, $900,000 grant from the National Institutes of Health for research titled “A Logical Framework for Adaptive System Interoperability.”

David L. Brownman, Ph.D., professor of anthropology and environment, has received a two-year, $64,922 grant from the National Science Foundation for research titled “Evaluating the Anti-Inflammatory Function of Novel IL-10 Induced Dendritic Cells.”

Kenrick B. Deouer, Ph.D., re- search associate of pathology and immunology, has received a one-year, $52,930 grant from UT Southwestern Medical Center for research titled “Role of Progenitor Cells in the Distribution of Host Antigens.”

Sandra Schuchman, Ph.D., assistant professor of dermatology, has received a one-year, $124,754 grant from the National Institutes of Health for research titled “Enhancing Rehabilitation of Children with Cystic Fibrosis: A Guide for Successful Aging.”

Brian E. Kropf, Ph.D., assistant professor of radiology, has received a one-year, $11,251 grant from the Radiological Society of North America for research titled “Detecting Liver Tumors at Early Stages.”

Gusia Roman, Ph.D., chair and professor of computer science, has received a three-year, $900,000 grant from the University of Illinois for research titled “A Logical Framework for Adaptive System Interoperability.”

Raymond Miller, M.D., Ph.D., professor of medicine, has received a one-year, $1,000,000 grant from the National Institutes for Health for research titled “Safe & Secure — A Computerized Prescribing Deter- mination Program.”

Haengseok Song, M.D., Ph.D., post-doctoral fellow of pathology and immunology, has received a two-year, $98,000 grant from the U.S. Army Medical Research and Material Command for research titled “Identification of New Immune Checkpoints in battled Cancer.”

Michael A. Harris, Ph.D., has received a one-year, $99,898 grant from the American Diabetes Association for research titled “Home Based vs. Office Based Family Therapy for Adolescents With Psychiatric Problems.”

Notables

Palmophotobacterial Study of a Classic Holohaline Site

Sophia Hayes, Ph.D., assistant professor of chemistry in Arts & Sciences, has received a one-year, $10,000 grant from the Department of the Army for research titled “Design and Construction of an Apparatus for Combined Opti- cally-Polarized and Optically-Detected Magnetic Resonance Imaging Studies.”

Kenneth Kelton, Ph.D., professor of physics in Arts & Sciences, has received a three-year, $900,000 grant from the National Institutes of Health and the University of Michigan for research titled “Mechanical Properties of African American Aging.”

Leith Baumgarten, M.D., resident in orthopedic surgery, has received a one-year, $18,000 grant from NASA for research titled “Mechanical Properties of Arthropod.”

David Pollito, Ph.D., associate professor of pharmacology, has received a one-year, $53,239 grant from the University of Texas Southwestern Medical Center at Dallas and the National Institutes of Health for research titled “Clinical Trials for Pediatric Spinal Malarial Atopy.”

Joseph Borelli, M.D., assistant professor of orthopedic surgery, has received a one-year, $43,290 grant from the Office of Research for research titled “In Vivo Cartilage Changes After Mechanical Injury.”

Cansuullo Williams, M.D., assistant professor of medicine, has received a one-year, $30,600 grant from the National Institutes of Health and the University of Michigan for research titled “Mechanical Properties of African American Aging.”

Keith Baumgarten, M.D., resident in orthopedic surgery, has received a one-year, $18,000 grant from NASA for research titled “Mechanical Properties of Arthropod.”

The following incidents were reported to University Police Sept. 9-14. Readers with information that could assist in investigating these incidents are urged to call 909-0505. This information is provided purely to serve to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

Sept. 10

10:07 p.m. — A student reports an unknown person threw an egg on her and caused minor injuries.

Sept. 11

4:20 p.m. — A non-university employee had a $50 bill stolen from his wallet.

Sept. 12

10:24 a.m. — A person reported that an unknown person stole money and credit cards from a wallet. An investigation is continuing.

Sept. 13

3:16 p.m. — A University College employee and her co-worker had money and credit cards taken from her wallet while she was away from her desk.

11:59 p.m. — A student reported that he lost his wallet containing $100 and a Little Big Horn Residency ID card on the suite open. When he returned, he discovered that an unknown person had taken almost all the money and money from his wallet. An investigation is continuing.

Additional University Police responded to three auto accidents and one report each of judicial variance, lost article, loiter, liquor violation and medical emergency.

Study

Computer technology aids data management — from Page 1

Province and other researchers participating in the project have had experience with multicenter health studies and have developed innovative statistical tools that can now be applied to both the genetic and the non-genetic causes of extreme longevity.

"There are a whole slew of things that we have been playing with and testing to see how well they work on very complex data," Province said. "And they can be very powerful, especially for the analysis of datasets of interacting

professor of social work, has re-ceived a two-year, $20,000 grant from the Gragg Hill Settlement House for research titled "MORE for Head Start.""}

Michael Peedic, M.D., orthopedic surgery resident, has received a one-year, $3,250 grant from AO North America for research titled "Prospective Clinical Study of Acetabular Fractures Using Images Rendered from Standard Computerized Tomographic Imaging."
A bioethics expert, Re-becca S. Dresser, J.D., the Daniel Noyes Kirby Professor of Law and professor of ethics in medicine, asks a lot of questions.

Questions such as: Is it ethical to destroy a human embryo in order to make its cells available for research? Is killing a hu-man embryo like killing a human child or adult? If embryos aren't the same as persons, does this mean we should regard them as having the status of property?

Whose responsibility is it to oversee the safety and ethical concerns of new biotechnologies? Are we obligated to enable every-man to live a long and healthy life? What is the ethical and moral approach to end-of-life directives?

Rebecca S. Dresser, J.D., meets with law students Carla Escobar and Mike Heaney to discuss ethical issues in medicine. "Despite her exceptional wisdom and experience, she is gentle in her approach, preferring to offer her insights... as suggestive and opinions rather than dogma," says Philip Ludbrook, M.D., professor of medicine and of radiology.

"Rebecca is not only a very good lawyer and legal scholar, but she is also very knowledgeable... about clinical medicine and science and is very sophisticated on the philosophical level." Thomas Murray

"The amazing thing is, I engaged in... much of a field. Having spent time... studying germline genetic intervention. This approach has never been tried in humans until now, and it involves correcting... 'bad' genes in either the sperm or egg before fertilization or in the... few cells.

"Rebecca is not only a very good lawyer... and a very knowledgeable... about clinical medicine and science and is very sophisticated on the philosophical level." Thomas Murray

"One of the wonderful things... is being able to clearly see two... and the ethics of human testing." Rebecca S. Dresser, J.D.