One gene controls development of all serotonin cells

By Gila Z. Reckess

Mice missing a gene called Lmx1b do not produce the important brain chemical serotonin, according to School of Medicine research. This is the first evidence that one gene controls development of all cells that produce serotonin in the central nervous system, marking significant progress in understanding this critical nervous system pathway.

While the importance of serotonin in behavior is well known, it is not well understood how the cells that produce this chemical are generated," said Zheng-Feng Chen, Ph.D., assistant professor of moleculareneurobiology and pharmacology and of psychiatry. "By understanding this pathway, it may be possible to develop better drug candidates for a number of psychiatric disorders."}

Dole to present Founders Day address

Robert J. Dole will be the keynote speaker at the Founders Day Dinner Sept. 20 at America's Center. The widely respected senior statesman, veteran Republican senator from Kansas and 1996 presidential candidate will give a talk on "Leadership and Values in the 21st Century." Also at the event, the University will present the World-Renowned Achievement Awards for distinguished faculty and alumni, and the Founders Day Dinner Sept. 20 at America's Center.

Special Record pullout section

The center of this issue has a four-page pullout section that contains a listing of all the events, maps and further details on the 150th Birthday Party Sept. 14.

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The first author was Yu-Qiang Chen led the study, which appeared online in the journal Nature Neuroscience. The first author was Yu-Qiang Chen, M.D., Ph.D., a research associate in Chen’s laboratory. The study was done in collaboration with
WASHINGTON UNIVERSITY IN ST. LOUIS

WUSTL among 200 private colleges offering new prepaid tuition plan

By ANDY CLEMMENDIN

In 1853, the University was in its infancy.

But the world was in full swing, and to help mark the year of the University's founding, a series of classes about the world in 1853 began Tuesday evening in September.

The classes are free and open to the public. The classes start at 7:40 p.m. in Goldblatt Auditorium, McDonnell Hall, Room 162. They are part of a free, noncredit short course called "Remembering 1853: A Sesquicentennial Celebration of the Humanities."

The lectures are:

• Sept. 9: "Music in 1853: New Stars for Berlin, Wagner and Brahms," Hugh Macdonald, Ph.D., professor of music and director of the Division of Music in Arts & Sciences. The year 1853 was a turning point in European music, Schumann introduced the young Brahms to the world, and Berlioz and Wagner resumed composing after several years of silence. The class will explore the close interactions of these and other major composers in 1853.

• Sept. 16: "Chin in 1853: Familiarity with Foreigners on the Shores," Robert Hegel, Ph.D., professor of Chinese studies at the University, Asian and Near Eastern languages and literatures in Arts & Sciences. The class will explore China's involvement with the world through several important texts from 1853, including reading from the Qing imperial archives, documents from crime cases, reports from foreign observers, and a variety of other perceptions from within and outside China.

• Sept. 23: "Love of Zion and the Literature of Modern Hebrew Literature," Nancy Berg, Ph.D., associate professor of modern Hebrew in Asian and Near Eastern languages and literatures. In 1853, Aaron Aaron published Aharon Avivi (Love of Zion), long recognized as one of the most modern Hebrew novel. Written in neo-biblical style, it tells an entertaining story of romance and adventure. The novel met with immediate success and has since been translated into many languages, including English. This class will discuss the novel as a literary work and as a social and cultural artifact.

• Sept. 30: "The State of Higher Education in 1853," Mary Ann Drabick, Ph.D., associate professor of education and of history, both in Arts & Sciences. This class will discuss this subject in both the United States and Europe. The class will then look more closely at the founding and early missions of the Washington University and discuss both continuity and change at the institute during the past 150 years. For more information on the Sesquicentennial celebration, go online to wustl.edu.

Research Web site now more user-friendly

A redesign "resized" ResearchWeb.wustl.edu, the Washington University Web site has been launched with the goal of making the central research information regarding research at the University, said Theodore J. Cicero, Ph.D., vice chancellor for research, recently announced the redesign.

"We were aware that a large amount of valuable research-related information was available at various Web sites throughout the University," Cicero said. "However, finding it was difficult. We want centralizing this information will make it easier to access. Therefore more readily accessible to our faculty, students and support staff." The site can be viewed at research.wustl.edu.

In addition to linking to other sites, many new resources have been added. Now included are:

• A section that offers tools to help students get started on managing grants and contracts;
• Contact information for the research administration offices that help guide researchers through the process;
• More information on identifying funding, proposal submission and award management;
• Information for postdoctoral and predoctoral students with Web links to the new Office of Postdoctoral Affairs, the Division of Biology and Biomedical Sciences, the Medical Scientific Training Program, and the Graduate School of Arts & Sciences; and
• Links to research on evaluation and training opportunities at the University.

Some carrier resource files from the original site include direct links to the Office of Technology Management, the Center for Intellectual Property, institutional oversight and compliance committees and other resources, the Institute for Environment, Health & Safety, as well as federal agency and private resources.

"We tried to appeal to both the new researcher and experienced faculty by creating several ways for them to access information — either through key terms or departments by essay. Comments on the changes are welcome and may be emailed to site's design team at research@wustl.edu.

Listed of licensed suppliers now online

The Office of Public Affairs' product licensing office has been added to the University's Product Licensing Web site. The site, which is a clearinghouse for the services offered to the University, including the "Office of Public Affairs' product licensing office. Members of the University can access this page through a list of qualified suppliers, who are recommended for their quality and expertise of products such as computer software and other merchandise.

The central feature of the new page, which is a list of suppliers who specialize in the imprinted merchandise needs of the internal University community. For more information, go to productgraphics.wustl.edu/license-suppliers.

Search News Briefs

A Sept. 11, 2001, memorial gathering will be held at 7 p.m. Oct. 14 in Gratz Hall. The gathering will be a brief coming together of the campus community to reflect on the tragic events of two years ago and look forward to the future.

James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences, will speak, and the Washington University Choir will perform. Students from various faith traditions will gather at the beginning to share their sacred texts. The gathering is part of Campus Week of Dialogue.

Wagner confirmed composing after several years of silence. The class will explore the close interactions of these and other major composers in 1853.

Benefits are transferrable to other members of the family, and 

Insurance policies for children who receive tuition at any of the schools at a mall. Brown said: "Students don't choose to go to the college at all, but after they have applied and are accepted in the regular manner.

An example of how the plan works: Let's say private College A and B had agreed to honor certificates purchased under Independent 529 Plan. College A has a tuition cost of $30,000 for this current year and College B $10,000. A person who makes a $10,000 contribution into Independent 529 Plan this year would receive tuition certificates that would cover 33.3 percent of a year's tuition at College A or a whole year at College B, regardless of how high tuition may be at the time the student eventually chooses to use the certificates.

In fact, because participating institutions must offer a discount of their current tuition fees, the certificates would cover tuition at another institution. A and B in the example above.

Other features of the plan include:

• The consumer pays no fees for setting up a plan or maintaining it.
• A parent, relative or friend at a college level can establish an Independent 529 Plan for a beneficiary (eventual student) at a college that also participates in the tuition certificates to a wide range of colleges and universities.

Accounts can be opened for as little as $25 provided contributions total at least $500 with a lifetime cumulative limit of $20,000. The maximum amount of a 529 plan account can be used at any of the participating colleges and universities and can increase over time; and

• Any increase in value realized when a tuition certificate is redeemed at a member college will be free of federal and state taxes. However, a sunset provision in the current tax law calls for all 529 plan features by calling (888) 718-7387 or by visiting www.independent529plan.org.
Parasite study might lead to new treatments

By DARRELL E. WARD

School of Medicine research has revealed several essential functions of the molecule called lipid phosphorylcholine (LPG). The studies show that parasites engineered to lack the molecule known as lipophosphocholine (LPG) live 10 times longer and are incapable of attacking by an immune defense known as complement, which is found in the bloodstream. And although parasites that lack LPG easily enter macrophages (immune cells that the parasite normally infects), they were quickly destroyed once inside the cells.

The findings were published online and in the Aug. 5 issue of the Proceedings of the National Academy of Sciences.

"This study helps us better understand how these parasites are transmitted and how they establish infections," said principal investigator Stephen M. Beverley, Ph.D., the Martin A. Brennecke Professor of Molecular Microbiology and head of the department. "It also could help offer insight into the development of a vaccine to prevent this devastating disease." The parasites are spread by the bite of infected sand flies and can cause leishmaniasis, a slow and painful disease that is structurally related to LPG, to the survival of parasites are more likely to be destroyed by these oxidants as normal parasites. They then use genetically engineered pathways that lack the oxidative defense system to prove that this plays a key role in disease. Parasites without LPG, however, retained the ability to resist other macrophage defenses including exposure to acid substances and enzymes that attack infections. Thus, while it is critical to the survival of Leishmania, other molecules must collaborate with it, Beverley and his colleagues are studying several of these normal metabolic pathways, including one that is structurally related to LPG, "Leukocyte-specific enzymes that are histidine enzymes that are unique to leishmaniasis were found to enable p53 to curb cell growth. NPM appears to be able to transform cells and is expressed in many different cancers, especially in breast cancer," said Beverley, a Siemens Cancer Research Professor.

Healthy Living
Cancer patients, their families and medical professionals enjoy the recent annual St. Louis Cancer Center Wellness Fair. The event showcased non-invasive treatment booths that offered the latest health and wellness information. Local experts also presented sessions on complementary therapies, stress and relaxation management tips and healthy cooking demonstrations.

Weber receives grant to study cancer growth

By INDRANI DATTA

Saying the cancer cell cycle may lead to a better understanding of how to control — and possibly inhibit — cancer growth.

Jason Weber, Ph.D., assistant professor of medicine and of cell biology and physiology, recently received a grant, 51.5 million, from the National Institute of General Medical Sciences to study a protein called nucleophosmin (NPM), which may play a role in promoting tumor growth.

"NPM appears to be able to transform cells and is expressed at the good of the whole community," said. "It's a good way to attract promising students to the Stahl." His other efforts include spearheading the development of a lecture center for School of Medicine faculty and staff and chairing the Gender Equity and Teaching Committee. He also serves as the chair of the Learning and Teaching Center Committee and played a major role in gaining support for the center's development. Stahl also was recently appointed chair of the Executive Committee of the Division of Biological and Medical Sciences, which oversees all of graduate education in the bio sciences.

"Prominent scientists often have a personality that is rather different from the standard," said. "I was just swept off my feet by her energy." His daughter, Pia Marie, is currently working on her Ph.D. in health policy at Brandeis University. She has a baby and is struggling to manage.

"I have found women to be wonderful colleagues and mentors," he said. "We experience that they make great scientists as well. When we exclude them, we short-change ourselves."

Stahl receives women in cell biology award

By DARRELL E. WARD

"I have found women to be wonderful colleagues and mentors," he said. "Our experience that they make great scientists as well. When we exclude them, we short-change ourselves."

Philip D. Stahl

Daniel Stahl's outstanding efforts to promote the careers of women in science, an interest of his since becoming head of the Department of Cell Biology and Physiology in 1984. Stahl studies signal transduction in cells and is a member of the Siteman Cancer Center's Cell Biology and Physiology program. The annual award goes to a woman or man in cell biology who has made a significant contribution or equivalent, does outstanding science and has a record of support for women in science and of mentoring men and women.

Urshala W. Goodno, Ph.D., associate professor of anatomy and of physiology, and Sarah Elgin, Ph.D., professor of biochemistry and of physiology, are former recipients of the award.

Stahl more than meets the criteria, said Helen M. Piwnica-Worms, Ph.D., professor of cell biology and physiology. "Phil is well respected in the field, works hard to help women in science and has done much to mentor students in his laboratory and faculty in our department," she said. "His service to the University has been tremendous." When Stahl arrived at the University in 1971, his department had a few female faculty members. Today, women represent approximately 30 percent of the faculty. "And that's up to 50 percent eventually," he said.

He has pushed for greater minority representation on the faculty and in students by chairing minority recruitment and outreach committees. He also played a leading role in developing the University's widely praised Success Portfolio Program, which brings disadvantaged students to the University, he said.

"I watched her struggle and realized how difficult it is for women to stay in academia," said. "She was an extraordinary biology teacher," Stahl said, and I was just swept off my feet by her class.

"It's part of a signal network within the cell that when it detects stressful conditions for example, ARF has been found to enable p53 to curb cell division or to initiate cell death when it detects stressful conditions. Further studies with mice show that ARF itself has the ability to suppress tumor formation independent of p53. A section of ARF called the amino terminus is required for normal cellular arrest in the absence of p53. ARF appears to be able to inhibit the amino terminus of ARF and has been implicated in processes such as growth control and protein synthesis.

"Cancer cells produce a large amount of protein, and NPM can shut down protein synthesis," said. "We don't yet know whether this behavior is a cause or a consequence of cell growth inhibition."

With this new grant, Weber's team will be studying NPM to elucidate its role in the alternate tumor suppression pathway. Clarifying NPM's function promises understanding in its relationship with ARF, NPM's more established role within the cell, and the consequences of missing NPM.
Bollinger to address principle of academic freedom

By Kurt Muller

Lee Bollinger, president and professor of law at Columbia University, will inaugurate the fall Assembly Series lecture at 11 a.m. Sept. 10 in Graham Chapel.

His talk, "The Foundations of the University's and the Nation's Freedom," also is the speech in which he will accept the university's principal academic freedom award.

Bollinger is a graduate of the University of Oregon and Columbia Law School.

He served as a law clerk for Justice William J. Brennan Jr. of the U.S. Court of Appeals for the Second Circuit and also for Chief Justice Warren Burger of the U.S. Supreme Court.

Bollinger also began his career at the University of Michigan Law School in 1975 and he became the dean of the school in 1987.

He joined Dartmouth College as provost and was also appointed a professor of government in 1981.

In November 1996, Bollinger was named Columbia's 13th president. In June 2002, Bollinger became Columbia's 19th president and professor of law.

He issued an order to Columbia's administrative staff to refill its advertising budget.

His contributions to First Amendment writings include The Highly Acclaimed Book — Vigilant — Free Speech and Modern Era (2001), and The Enclave: Freedom of Speech and Extreme Speech (1996).

A defender of affirmative action was appointed to his new position, he was the recipient in the recent Supreme Court case Grutter v. Bollinger and Grutter v. Bollinger.

All Assembly Series lectures are free and open to the public.

For more information, call 935-4920.

Saturday, Sept. 13


Bollinger continued:

It was the same tradition that yielded the Freedman's Bank, the first institution of higher education established by African Americans.

And more...

Washington, D.C., Oct. 10 — On Thursday, Oct. 10, Columbia University Law School will host the 9th Annual Global Symposium on Academic Freedom. The event will be held at Columbia University's Miller Hall and will be attended by over 100 scholars and policymakers from around the world.

The conference will focus on the following themes:

1. The Globalization of Academic Freedom
2. The Role of International Organizations
3. The Future of Academic Freedom

The conference will feature keynote addresses by leading scholars and policymakers, as well as panel discussions and workshops. The conference will also include a networking event for participants.

The conference aims to bring together scholars and policymakers from different parts of the world to discuss the current state of academic freedom and to explore ways to promote and protect it.

The conference is organized by the Center for Academic Freedom at Columbia University Law School in partnership with the International Center for Academic Freedom.
Thoughts and the Mind-Brain.

A Pictorial History of the School of Law.

A display on Washington Tyson Research Center.

Cancel and review the role of historians and professional ethics.

Influence 150: 150 Years of Shaping a City, a Nation, and the World.

Creative writers — short fiction, poetry, and fiction readings.

American Lives Project.

Hear Persian poetry read in the original and in translation by Professor Fatemeh Gorgin.

American Indian Art and Visual Culture.

Explore the Jeanette Goldfarb Plant and Forestation Lab.

The Exploration of Mars.

A Demonstration of the automation of aerial combat.

The Exploration of Mars: Technical Demonstrations.

Witness a live demonstration of temperature imaging with ultrasound.

Learn about the physics of image enhancement and its role in supporting biology research.

Exhibit and discussion presented by Professor Gayle Fritz for this exhibit and discussion.

Learn about self-care, injury prevention and adaptation to pain.

Pareidolia: An exhibit and discussion presented by Professor Rebecca Lester and Brad Hurwitz.

Pareidolia: An exhibit and discussion presented by lecturer John Kelly.

Explore the confluence of media, art and technology.

The Exploration of Mars: Technical Demonstrations.

A Society of Automotive Engineers display. Presented by technician James Smith.

Rattle and Roll: Structural Dynamics.

An exhibit and discussion presented by Dr. Wayne R. Feeney.

School of Architecture: 1948 to the Present.

An exhibit and visual timeline of the School of Architecture.

Washington University’s 150th Birthday Party is a celebration of a day, a day for “serious” fun, and a chance for the whole community to experience our rich variety. We have tours, exhibits, demonstrations, performances, clinics, lectures, interactive activities and other special events presented by faculty, students and staff of every school — Architecture, Art, Arts & Sciences, Business, Engineering, Law, Medicine and Social Work — for every age and taste.

Gather in the Eric P. Newman Education Lobby; 11 a.m. - 4 p.m., ongoing.

Washington University in St. Louis celebrates 150 years of excellence in education, research, service and community engagement.
Kids ages 6-10 years old can hone their soccer skills at a clinic from noon-1:30 p.m. on Francis Field. Other clinics offered are basketball (11:15 a.m.-12:30 p.m., Athletic Complex); baseball (1:20-3:30 p.m., Kolly Field).

Contrasting Perspectives on Personality Problems: Do We Know What Others Think of Us? Perspectives on personality problems. Presented by Professor Tom O'Brien, McDonnell 040; 12:30-1 p.m.

Laser Science Building: Tour one of Washington University's newest buildings with administrator Ali Hoss and Anjelique Feng. Laboratory Science Building; 11:30 a.m.-1:30 p.m., ongoing every half hour.

Sweet Root Demonstration. See this technology at its finest; taste the world's most famous root! Simon 102; 11:30 a.m.-12:30 p.m.

Dinosaurs as Evolutionary Models.骰王子by artist-in-residence Cecil Slaughter and others. Presented by Professor Glenn MacDonald. Simon 103; 1-2 p.m.

The Impact of Global Warming on Plant Ecosystems. Presented by Professor M. Alan Davis. Green Brookings 100; 1-2 p.m.

The Sounds of World Poetry. Avant poetry read in the original and in translation by lecturer Sthaneshwar Vaidyanathan, Registrar's Office; 11:30 a.m.-1:30 p.m.

The Sounds of World Poetry. Avant poetry read in the original and in translation by Professor Nancy Berg. Eads Level 108; Noon-1:30 p.m.

Smart Board Demonstration. Presented by Professor Philip Bayly. Jolley-Bryan Foyer, 3rd Floor; Noon-1 p.m.

Memories of Chaucer. Slide lecture by Professor David Ogg. The Metronome Gallery; 11 a.m.-12:30 p.m.

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The Sounds of World Poetry: Japanese and Korean poems by the late and great poetess Myung Mee Kang. Presented by Professors Maryn Maron and by Min Kim. South 107A, 1:30-2:30 p.m.

Virtual Industrial Plant of the Future. Presented by Professors Tim Parsons and John Moore. Mallion 420, 1:30-4:00 p.m.

The Social Work Profession — 150 Years and Growing: Panel discussion with experts. Mallinckrodt Lower Level, Schoenberg Gallery, presented by Professors Amy Pawl and Rebecca DeRoo. Steinberg Teaching Gallery, Lower Level 1, Special Collections; 3-4 p.m.

A presentation on Washington University's day of scale and pilot-scale reactors. Presented by Professors Tim Parsons and Joe Conway. Mallinckrodt Lower Level 1, Special Collections; 3-4 p.m.

Shuttle service also will be available every 20 minutes starting on the hour. To take the shuttle from the West Campus, wait by the shuttle sign near 11 North Brookings stairs on Hoyt Drive or at the sheltered shuttle stop in front of Mallinckrodt Center; to take the shuttle from the Medical Campus back to the Hilltop, pick up at the shuttle to the entrance for the Monsanto Children's Clinic on the corner of Forest and Pine. (See map on next page.)

The Brooke (28) shuttle will be available every 20 minutes starting on the hour. To take the shuttle from the Hilltop Campus, visit the shuttle sign at the base of the Stairs on Hoyt Drive or at the sheltered shuttle stop in front of Mallinckrodt Center; to take the shuttle from the Medical Campus back to the Hilltop, pick up at the shuttle to the entrance for the Monsanto Children's Clinic on the corner of Forest and Pine. (See map on next page.)

Between the Hilltop and Medical Campuses: Shuttle service will be available every 20 minutes starting on the hour. To take the shuttle from the Hilltop Campus, visit the shuttle sign at the base of the Stairs on Hoyt Drive or at the sheltered shuttle stop in front of Mallinckrodt Center; to take the shuttle from the Medical Campus back to the Hilltop, pick up at the shuttle to the entrance for the Monsanto Children's Clinic on the corner of Forest and Pine. (See map on next page.)

Welcome Tests. Texts inviting you to this festive celebration will be staffed throughout the day. On the Hilltop Campus, the ADF Gallery and the V-N Gallery. On the Medical Campus, the Science and Engineering Library and the Science Laboratories Science Building. On the Medical Campus they are located at the Center for Advanced Medicine and outside the Student Center. On the Hilltop Campus, see the list below about building access and receive any assistance needed at these tents. (See maps on next page.)

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By Liam Otten

Chinese Ceramics Today opens today at the St. Louis Chinese Arts & Sciences Center, 725 Kingsland Ave.

This fall, the Gallery of Art will present "Chinese Ceramics Today," a selection of works by the best in the field of Chinese ceramic artists. The exhibition, which runs through Sept. 5, 2003, opens today at the gallery, 1627 Washington Ave., with a reception from 5:30-8 p.m. Call 935-4523.

Chinese Ceramics Today includes works by four of the artists, Hsu I-Chi, Fong Ying, Xiaoqing Luo and Janny Shao — all free and open to the public.

In addition, the four visiting artists will conduct a ceramic workshop from 10 a.m. to 4 p.m. Sept. 6 at the Lewis Center Ceramics Studio, 725 Kingsland Ave.

Chinese traditional ceramics have always been a collaborative effort, wrote Hsu, the exhibition's chief organizer and founding member of the Pottery Hop in Beijing and the Chinese Potters Newsletter, in the exhibition catalog. "The work is both in techniques and in artistic concepts (and it is) the reason why Chinese ceramic masterpieces rarely bear the artist's name."

For much of the 20th century, the Chinese Communist Party furthered discouraged any sense of individualism, though Hsu noted that "the situation has changed in the last 20 years, due to China's reform and opening up."

The closing of state-run factories and the development of a market-driven economy have allowed artists to grow. In the past three years alone, Hsu estimates, more than 100 influential ceramic artists have established independent studios.

It is from these independent studios — 20 from the mainland, three from Hong Kong — that Hsu has curated Chinese Ceramics Today. Works range from subtly off-kilter applications of traditional techniques to more conceptually flamboyant, modernist installations.

"We are yet to see a brighter future for these promising artists," Hsu concluded.

Chinese Ceramics Today is organized by the Guangdong Museum in Canton, China, and the Artisans Museum in Geneva, Switzerland, with other stops including the Denmark Keramic Museum, Denmark; The Clay Studio in Philadelphia; the Oriental Ceramic Center of Contemporary Art, Santa Ana, Calif.; the University of Hawaii; and the Honolulu Museum of Science & Technology University.

The St. Louis installment is made possible thanks to the sponsorship of Arnold and Hazel Donald, David Farrell, David Moser, William and Ann Tao, Craft Alliance, The Contemporary Art Museum, St. Louis, the Organization of Chinese Americans-St. Louis Chapter, and the St. Louis Art Museum, the St. Louis Chinese Arts and Culture and Webster University.

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Serotonin

Chen's team seeks better treatment for imbalances — from Page 1

Researchers at Case Western Reserve University and the Karolinska Institute in Sweden and the University of Texas MD Anderson Cancer Center.

Many cells use serotonin to communicate with each other, some of which are located in the brain while others reside in the spinal cord. The chemical is critical for responses such as emotion and movement and abnormalities in the serotonin pathway can result in a variety of psychiatric disorders, including depression, anxiety, and addiction.

Antidepressant medications like Prozac treat serotonin imbalances but according to Chen, "it would be better to know how to treat the underlying cause of such diseases. "It's like building a house," he said. "If you know enough about the foundation of the house and how all the brick fits into the larger structure, you can get a better handle on how to treat any problem."

The so-called Petl also is important for the development of serotonin-producing cells. However, lacking Petl lose only 70 percent to 80 percent of this type of cell.

In contrast, when Chen and his colleagues knocked off a gene called Lmnb, they found absolutely no serotonin-producing cells. The animal also lost the gene Petl.

With only targeted deletions of the gene, Chen hopes to engineer mice that survive but do not produce serotonin in order to use this as a model for serotonin's role in behavior and to screen new medications under development.

"We think we will be able to develop a first mouse population that survives without any serotonin," Chen said. "Such a mouse would allow us to see how serotonin fundamentally affects pain and depression. We are hoping to collaborate with others at Washington University to study the relationship between this gene and behavior."

University researchers interested in collaborating with Chen should call 777-5093.

"We think we will be able to develop the first mouse population that survives without any serotonin. ... We are hoping to collaborate with others at Washington University to study the relationship between this gene and behavior."

Zhou-Feng Chen

Party

Public invited to celebration Sept. 14 — from Page 1

Lawn that will present two performances of the fun mock trial — the Three Bears on Trial, St. Louis, for children and their families. Children, who will be asked to serve as jurors, will be entertained while also learning some of the terminology and mechanics of a trial.

In addition to the planned activities, visitors can tour the Gallery of Art, founded in 1881 as part of the St. Louis School and Museum of Fine Arts, the Gallery of Art in the Art and Museum wing of the Mississippi River.

Two new exhibitions, Influence/1925: A Century of Shaping a City, a Nation, the World and Inscriptions of Time/Topographies of History: To Be, Are, Become, Are, and Will Be, will open Sept. 5 and will be open during the remainder of the season.

Faculty staff, students, alumni and visitors of all ages are invited to attend.

For information and updates regarding the 150th Birthday Party, call the celebration's hotline at 935-5906.

Among the many activities for this year's celebration is the "Laws of the Robot Photographer" take your picture. For a full schedule of 150th Birthday Party events, see the special pullout section in the center of this Record.

Hilltop Campus

"What is the connection between the gene and behavior?"

Chen

"It's like building a house," he said. "If you know enough about the foundation of the house and how all the brick fits into the larger structure, you can get a better handle on how to treat any problem."

The so-called Petl also is important for the development of serotonin-producing cells. However, lacking Petl lose only 70 percent to 80 percent of this type of cell.

In contrast, when Chen and his colleagues knocked off a gene called Lmnb, they found absolutely no serotonin-producing cells. The animal also lost the gene Petl.

With only targeted deletions of the gene, Chen hopes to engineer mice that survive but do not produce serotonin in order to use this as a model for serotonin's role in behavior and to screen new medications under development.

"We think we will be able to develop a first mouse population that survives without any serotonin," Chen said. "Such a mouse would allow us to see how serotonin fundamentally affects pain and depression. We are hoping to collaborate with others at Washington University to study the relationship between this gene and behavior."

University researchers interested in collaborating with Chen should call 777-5093.

"We think we will be able to develop the first mouse population that survives without any serotonin. ... We are hoping to collaborate with others at Washington University to study the relationship between this gene and behavior."

Zhou-Feng Chen

Football team tabbed to repeat as champs

The Bears football team is the top choice to repeat as University Athletic Association champions.

The team, looking to claim an unprecedented third straight outright conference title, garnered three first-place votes for a total of 15.5 points, narrowly edging Case Western Reserve University for the top spot. The Spartans earned 14 points, while Carnegie Mellon University was the coaches pick to finish third, earning 11.5 points.

The Bears begin the 2003 season on the road against Simpson College (low) at 1 p.m. Sept. 6.

Other updates

The No. 1-ranked volleyball team won four of five matches Aug. 29-30 to earn a share of the Elmhurst Invitational title at Elmhurst College, Washington U. (3-1) cruised past Hope College 30-24, 19-30, 25-25 and followed that up with a 30-24, 30-19, 32-30 upset of Wartburg College on Day 1.

The Bears then opened the second day of the tournament with a 30-27, 30-26, 30-20, 30-19 upset of the University of Wisconsin-Oshkosh. Despite losing a spirited match to host Wheaton, 27-30, 30-28, 24-30, 30-10, 30-15 in the afternoon, the Bears held on to the title with Elmhurst and Wisconsin-Oshkosh, as each team finished with a 3-1 record.

The men's soccer team opened the 2003-04 season with a weekend split when they hosted the Washington University Classico at Francis Field. Sophomore Andrew Franklin gave WUSTL a 1-0 win when he ended a scoreless tie in the 66th minute against Southwestern at the final game of the tournament Aug. 31.

The Bears outshot Southwestern 18-3 and had a 9-2 advantage on corner kicks. The Bears dropped their season opener, 2-1, to No. 3 Trinity University Aug. 29.

The women's soccer team managed a split of games this weekend at the Wheaton College Invitational at Wheaton, Ill. In the opening game of the tournament, Aug. 29, WUSTL dropped a 5-4 decision to No. 5 Wheaton. The next day, the Bears ended their record as they upset No. 10 DePauw University, 1-0. Senior Kim Baros scored the game-winner for the Bears in the 79th minute as she took a pass from freshman Meghan Fowler-Firman and one-timed it past a DePauw goalkeeper with a shot from 20 yards out.

The men's and women's cross country teams opened the 2003 season as it hosted the Washington University Early Bird Meet, a 5K race at St. Louis Priory High School. Millikin University and Maryville University joined the Bears in the meet.

Bears senior forward Kim Raees scored the game-winning goal in a 3-0 upset of No. 10 DePauw University Aug. 30 at the Wheaton College Invitational in Wheaton, Ill.

Upcoming home contests

Volleyball

Sept. 5 WU Midwest Invitational

Milikin University, 3 p.m.

Sept. 6 WU Midwest Invitational

Joliet Junior College, 1 p.m.; Illinois Wesleyan, 7 p.m.

Sept. 12 WU Midwest Invitational

Central College, 3 p.m.

University of Wisconsin-Whtemon, 8:30 p.m.

Bears and both Bears teams took first. On the men's side, Washington U. finished with 16 points, while Millikin had 50 and Maryville notched 79. On the women's side, WUSTL registered 22 points, while Maryville posted 48 and Millikin tallied 66. The Bears had eight of the top 10 mens finishers, including the top four. Greg Rendell and the bears, and both Bears teams took first. On the men's side, Washington U. finished with 16 points, while Millikin had 50 and Maryville notched 79. On the women's side, WUSTL registered 22 points, while Maryville posted 48 and Millikin tallied 66. The Bears had eight of the top 10 mens finishers, including the top four. Greg Rendell and the bears, and both Bears teams took first. On the men's side, Washington U. finished with 16 points, while Millikin had 50 and Maryville notched 79. On the women's side, WUSTL registered 22 points, while Maryville posted 48 and Millikin tallied 66. The Bears had eight of the top 10 mens finishers, including the top four. Greg Rendell and the bears, and both Bears teams took first. On the men's side, Washington U. finished with 16 points, while Millikin had 50 and Maryville notched 79. On the women's side, WUSTL registered 22 points, while Maryville posted 48 and Millikin tallied 66. The Bears had eight of the top 10 mens finishers, including the top four. Greg Rendell and the bears, and both Bears teams took first. On the men's side, Washington U. finished with 16 points, while Millikin had 50 and Maryville notched 79. On the women's side, WUSTL registered 22 points, while Maryville posted 48 and Millikin tallied 66. The Bears had eight of the top 10 mens finishers, including the top four. Greg Rendell and the bears, and both Bears teams took first. On the men's side, Washington U. finished with 16 points, while Millikin had 50 and Maryville notched 79. On the women's side, WUSTL registered 22 points, while Maryville posted 48 and Millikin tallied 66. The Bears had eight of the top 10 mens finishers, including the top four. Greg Rendell and
Arts & Sciences, has received a three-year, $258,300 grant from the National Science Foundation for research titled “Support of the Margins Office for Research.”...

Deborah L. Levenson, M.D., instructor in pediatrics, has received a four-year, $773,076 grant from the National Heart, Lung, and Blood Institute for research titled “Regulation of Interstitial Collagen in the Heart.”

Christine Floss, Ph.D., senior research scientist in earth & planetary sciences in Arts & Sciences, has received a three-year, $89,000 grant from the National Aeronautics and Space Administration for research titled “Origen and Evolution of the Solar System: Micropaleontological Studies of Meteorites and Interplanetary Dust.”

Collin G. Nichols, Ph.D., professor of biology in Arts & Sciences, has received a three-year, $57,660 grant from the National Science Foundation for research titled “U.S.-Croatia Mathematics Research on the Theory of Reproducing Function Systems.”

Michael Sherraden, Ph.D., the Benjamin E. Youngbluth Professor of Social Development, has received a two-year, $295,597 grant from the National Science Foundation for research titled “Behavioral Economics in the Case of Poverty.”

Roger Phillips, Ph.D., professor and director of the Center for the Humanities (formerly the International Writers Center) in Arts & Sciences, has received a three-year, $360,000 grant from the National Endowment for the Humanities for research titled “Art in the Republic: Latin American Imagery and the Construction of National Identity.”

Gilda L. Weiss, Ph.D., the Elinor Anheuser Professor of Arts and Sciences, has received a three-year, $400,000 grant from the Ford Foundation for research titled “Regulation of Stress Induced Gene Expression in Plants: Function of Stress Proteins HVA1 and HVA22.”

Kenneth F. Kellogg, Ph.D., professor of physics in Arts & Sciences, has received a three-year, $375,005 grant from the National Science Foundation for research titled “Structural and Microstructural Studies of TiZr and Al-B: A New Class of Materials. Approximants and Metallic Glasses.”

John K. McGuire, Ph.D., instructor of pediatrics, has received a three-year, $619,169 grant from the National Heart, Lung, and Blood Institute for research titled “Malignant in Lung Epithelial Cell Migration.”

Rachel D. Roberts, Ph.D., associate professor of mathematics in Arts & Sciences, has received a five-year, $374,631 grant from the National Science Foundation for research titled “Fibred 3-manifolds and Beyond.”

Denis E. Hourcade, Ph.D., research professor of medicine, has received a four-year, $328,111 grant from the National Institute of Allergy and Infectious Diseases for research titled “Complement Convertase: Assembly, Function and Regulation.”

Ronald S. Indeck, Ph.D., the Das Family Distinguished Professor of Electrical Engineering, has received a three-year, $650,000 grant from the National Science Foundation for research titled “Switching of Perpendicular Magnetic Structures and Patterned Recording Media.”

Richard K. Wilson, Ph.D., professor of genetics, has received a one-year, $102,160 grant from the National Heart, Lung, and Blood Institute for research titled “Sequencing Chromosomes 3 and 10.”

James E. Galvin, M.D., assistant professor of medicine, has received a one-year, $4,000 grant from the American Foundation for research titled “Screening for Dementia.”

Jeffry M. Michalki, M.D., assistant professor of radiology oncology, has been inducted as a Fellow in the American College of Radiology. Fellowship is one of the highest honors conferred by the ACR.

Julie D. Morris, Ph.D., research associate professor in earth & planetary sciences in Arts & Sciences, has received a three-year, $863,749 grant from the National Science Foundation for “Support of the Margins Office for Research.”

Barry A. Siegel, M.D., director of the Division of Nuclear Medicine, Mallinckrodt Institute of Radiology, received the Society of the Division of Nuclear Medicine’s highest honors conferred by the society he served. His legacy is estimated at $1,950.

Deming was elected to the Board of Trustees in 1965, served as a member of the Educational Policy Committee and was elected an emeritus trustee in 1977.

He was 90.

Deming attended George Cleveland High School in St. Louis. He married Corinne Inez Wilson in 1935. The couple started his career at the Federal Reserve Bank of St. Louis in 1937. His first was assistant manager of the research department and subsequently became manager, vice president, vice president and first vice president.

He was named president of the Federal Reserve Bank of Minneapolis in 1957.

Deming was appointed undersecretary of the Treasury Department for monetary affairs in 1965 by Johnson. He held that position until 1969, when he left to become a partner at Lazard Freres & Co. in New York.

Deming then served as president of the New York Stock Exchange from 1972-1982. He was a member of the New York City Board until 1993.


Deming is survived by his wife, the former Betty Luckin; two sons, Richard W. Deming of St. Louis, Fla.; and Frederick W. Deming of St. Louis, Fla.; two grandchildren; four great-grandchildren; his brother, Carl W. Deming of St. Louis, Fla.; and five grandchildren.

OBITUARY

Ezra Ernest Freeman, 90
By Neil Schoenher

Ezra Ernest Freeman, 90, Emeritus Trustee Frederick L. Deming, Ph.D., died Thursday, Aug. 23, in Fort Myers, Fla. He was 90.

Deming was elected to the Board of Trustees in 1965, served as a member of the Educational Policy Committee and was elected an emeritus trustee in 1977.

He earned bachelor’s and master’s degrees at the University of Washington in Pullman and an M.D. in 1944 from the University of Washington in Seattle.

He served as an undersecretary of the U.S. Department of the Treasury in the administration of President Lyndon B. Johnson and as president of the Federal Reserve Bank of Minneapolis.

"Dr. Deming had a long and distinguished life," Chancellor Mark S. Wrighton said. "I am grateful for all that he did and I was one of our most distinguished graduates, both for our University and for the society he served. His legacy will endure."
Not long ago, Diana L. Gray, M.D., gently told a woman that her first child that was being carried in her belly — her unborn baby boy most likely would not survive. Gray was faced with the most difficult aspect of being an obstetrical geneticist. She had to explain that an expanding cyst was compressing the baby’s fragile lungs and impeding its normal development. There were also signs of heart failure. If Gray and her team didn’t surgically intervene to drain the cyst, the baby would likely die.

At ultrasound guidance, Gray and her team placed a shunt into the chest wall of the 24-week-old fetus to drain the cyst so his lungs could develop normally.

“I’ve done this sort of surgery for more than four months later, Gray’s patient gave birth to a healthy baby boy,” Gray says. “It’s hard to be non-directive,” Gray says of the employment of supportive work environment and to assure equitable compensation and promotional policies to sustain outstanding faculty researchers, clinicians and teachers.

“Diana is an accomplished clinical educator with wonderful personal qualities, just the right person to oversee faculty affairs at the medical school — a trusted representative to balance many challenges,” says William A. Peck, M.D., the Alan and Katherine L. Woff Distinguished Professor of Medicine, who appointed her to the position when he became chair of the medical school. “She has established an approach of advocacy and formed effective working relationships with many stakeholders and has begun to promote the implementation of strategies that will enhance our faculty.”

In the short time Gray has held the position, she has begun to assist new standing faculty committees in the development of equitable promotion and pay policies for women and minorities. “We have come a long way, but we plan to do even more when it comes to assuring that our women and minority faculty are supported and progressing along in their careers,” she says.

Gray has also been an elected faculty representative to the medical school’s Faculty Privileges and Board of Directors. She is the co-chair of the College of Women’s Network, serving on the board of directors and as president in 1996. And she still finds time to regularly run with her neighbor and take spinning classes.

“I love being active,” Gray says, “When I hear people say, ‘If you’re going to have a job in science and medicine, you shouldn’t have children,’ I’m totally perplexed.

“Having a family allows me to be a better physician. Gray says. “I am better able to sympathize with some of the very difficult dilemmas and emotional situations patients face.”

At the School of Medicine, Gray, a professor of obstetrics and gynecology and of radiology, and her colleagues focus on taking care of the patient from the beginning to the end of pregnancy. They believe if physicians are going to diagnose these genetic disorders, they need to offer patients every option as quickly and legally available.

“This is our area of medicine where we try especially hard to be non-directive,” Gray says. “Every patient’s situation is different, we don’t know what it’s like to be in their shoes.”

Gray’s research primarily focuses on using ultrasound as a noninvasive diagnostic screening technique for fetal genetic disorders. Her team also studies ultrasound as a diagnostic method for neural-tube problems and other fetal defects.

The introduction of ultrasound diagnostics about 40 years ago opened the door for the field of genetic prenatal diagnosis, which emerged in the 1970s._sound and genetics at the University. From 1991–97, she served as the division co-director and director of genetics and ultrasound and as the director of prenatal genetic services for Barnes-Jewish Hospital.

“The introduction of ultrasound diagnostics has revolutionized the practice of OB-GYN,” Gray says. “Before the invention of ultrasound technology, obstetricians were totally perplexed. “It’s hard to imagine being an obstetrician or midwife delivering babies without knowing what was going on during the pregnancy. The access we now have to the images is amazing.”

A family physician

Growing up on her family’s farm in northern Illinois, Gray’s affinity for animals sparked an interest in veterinary medicine. But she decided early on that it would be frustrating to treat patients that couldn’t tell you what was wrong. "It’s hard to imagine being an obstetrician or midwife delivering babies without knowing what was going on during the pregnancy. The access we now have to the images is amazing."