

AAAS inducts three Health Sciences researchers

Two Keck School of Medicine faculty members and one from the Herman Ostrow School of Dentistry of USC have been named fellows of the American Association for the Advancement of Science (AAAS) in recognition of distinguished accomplishments in advancing science and serving society.

The tradition of naming fellows to the AAAS, the world's largest general scientific society, dates to 1887. Jae Ung Jung, professor and chair of microbiology and immunology at the Keck School, Jing-Hsiung James Ou, professor of molecular microbiology and immunology at the Keck School, and Yang Chai, professor and chair of craniofacial sciences and therapeutics at the Ostrow School of Dentistry, are among this year's class of 503 inductees.

Jung's research has focused on the molecular mechanisms that allow viruses to evade the host body's immune system. He is honored for his insights into the



Jae Jung



Jing-Hsiung James Ou



Yang Chai

"field of molecular biology in viruses and their gene products as they relate to cell biology, biochemistry and immunology."

The research conducted by Ou's laboratory is centered on examining virus-host interactions, particularly for hepatitis B and hepatitis C. Ou is honored for "distinguished contributions to the research of hepa-

titis B virus and hepatitis C virus and their oncogenesis."

Chai is director of the Center for Craniofacial Molecular Biology and is honored for his work "elucidating the role of cranial neural crest to contribute to birth defects, specifically cleft palate and anodontia through the TGF signaling pathway."

Four USC faculty from three other schools across campus—USC College, the USC Davis School of Gerontology and the USC Viterbi School of Engineering—were also named fellows:

- David Caron, professor of marine and environmental biology at USC College;
- Eileen Crimmins, holder of the AARP Chair and professor of gerontology at the USC Davis School of Gerontology;
- Katrina Edwards, associate professor of biological sciences and earth sciences at USC College; and

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Hospital program seeks to reduce risk of patients' falls

By Tania Chatila

A one-week pilot program aimed at reducing patients' risk for falls is expected to commence at USC University Hospital before the end of the month.

The pilot will take place in 6-North and will require patients at high risk of falling to wear special bright yellow gowns and yellow non-skid socks to identify their risk for falls. Kathleen Coe, nurse manager for 6-North, said she hopes the pilot will help enhance patient safety.

"Falls can contribute to many negative patient outcomes such as morbidity, prolonged length of stay and even death," Coe said. "Through this pilot, we hope to more readily identify our high risk of falling patients, increasing everyone's awareness of the importance of their safety."

Coe said the pilot is part of a larger, comprehensive "Catch a Falling Star" fall prevention program on 6-North, which was launched at the beginning of last year to complement existing hospital fall prevention processes. At that time, findings reported that fall rates in 6-North – an orthopedic medical-surgical floor – had escalated above every other unit in the hospital.

Since then, 6-North staff have focused efforts on reducing those fall rates by promoting several unique patient safety practices for those at particular risk for falls. Those practices include a special "Don't Fall, Please Call" sign in patients' rooms reminding them to call nursing for help when moving or getting out of bed, and hourly nursing rounds in order to be more proactive in anticipating patients' needs.

The efforts have already proven successful, with fall rates in 6-North dropping to the lowest in the hospital. Coe said she hopes the pilot will reduce rates even further.

"The USC hospitals are always looking for new and innovative ways to reduce the risk of falling," Coe said. "We are committed to best practices and want to promote a culture of safety."

The pilot will be modeled after similar programs at health care institutions across the country, which all face comparable challenges in preventing falls among patients. If successful, the program will be implemented permanently on that unit and could eventually be implemented in other units as well.

Keck School receives grant to study heart rate in NFL, USC athletes

NFL Charities has awarded a \$100,000 medical research grant to the Keck School of Medicine to study heart rate behavior in National Football League players and USC student-athletes.

The Keck School study will be the first to investigate the heart rate response of NFL players under dynamic stress, including during games.

"We hope that this study will create a safer playing field for all athletes," said Leslie Saxon, the principal investigator for the study, chief of Cardiovascular Medicine at the Keck School of Medicine of USC, and executive director of the USC Center for Body Computing.

To better understand the spectrum of normal heart responses in elite football players, researchers will study heart data by body mass index, player position and age. They also will do a comparative study with USC football players.

The USC grant is part of more than \$1.6 million in grants to support sports-related medical research awarded this year by NFL Charities, the charitable foundation of the NFL owners.

"We are proud to support sports-related medical research proposals through NFL Charities Medical Research Grants," said Commissioner Roger Goodell, president of the NFL Charities Board. "These grants will help to address risk factors for football players and all athletes, and make the game safer."

The risk of sudden death in persons with undiagnosed cardiovascular disease increases twofold among competitive athletes, said Saxon.

"Unfortunately, currently recommended cardiovascular pre-participation screening procedures

for athletes to determine risk of sudden death may both fail to detect the subjects at risk and falsely identify other healthy athletes as at-risk," said Saxon.

A team of USC physicians will apply a small patch to pre-screened NFL and USC players to obtain heart rate and other data during practice and game situations. The data will be analyzed at USC.

"We're excited to take part in this worthwhile heart study, and we look forward to evaluating the results," said USC head athletic trainer Russ Romano. "I know it will provide valuable input in our quest to provide the best possible health care to our student-athletes."

Children's Hospital Los Angeles, which is affiliated with the Keck School of Medicine of USC, also received a grant in the amount of \$100,000 to conduct research on red blood cell metabolism in carriers of sickle cell trait and its consequences for athletes.

The grants will go to 16 organizations including USC and Children's Hospital Los Angeles. Since 2000, NFL Charities has committed grants to medical facilities nationwide, including studies on brain injury, ACL injury prevention and heat stress risks.

The USC study will be administered through the division of cardiovascular medicine at the USC Cardiovascular and Thoracic Institute and the Center for Body Computing.

Headquartered at the Keck School of Medicine of USC, the Center for Body Computing works with other USC schools, including the USC School of Cinematic Arts, the USC Viterbi School of Engineering, the USC Marshall School

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'Currently recommended cardiovascular pre-participation screening procedures for athletes to determine risk of sudden death may both fail to detect the subjects at risk and falsely identify other healthy athletes as at-risk.'

—Leslie Saxon, chief of Cardiovascular Medicine at the Keck School of Medicine

Study assesses stroke risk for adults with type 2 diabetes

By Kukla Vera

High-risk adults with type 2 diabetes whose long-term blood sugar levels are very high or very low, may be at greater risk of heart attack and stroke compared to those whose levels stayed at the American Diabetes Association-targeted level of 7 percent, according to a new USC-led study in *Diabetes Care*.

The case control study compared 11,157 men and women with type 2 diabetes who suffered a heart attack, stroke or death from heart disease to a matched control group of 44,628 persons with diabetes. It found that patients with mean levels of less than 6 percent or greater than 8 percent over a three-year period were at increased risk of heart attack, stroke or death from heart disease.

“Our study shows that aggressive glycemic control may not always be the best treatment strategy for persons with type 2 diabetes,” said the study’s lead author Danielle Colayco ’08, now a principal research associate in global health outcomes strategy and research at Allergan.

While people without diabetes usually have A1C levels—a

measurement of blood sugar over the past three months—of less than 5 percent, the American Diabetes Association recommends that people with diabetes should be treated to reach and maintain a level of 7 percent.

Colayco’s interest was piqued by a 2008 randomized control study, the Action to Control Cardiovascular Risk in Diabetes (ACCORD) trial, which showed that people with diabetes who had been aggressively treated to reduce their A1C levels to less than 6 percent were more likely to die than those whose levels were reduced and maintained in the 7 to 8 percent range.

The research, conducted by Colayco, Kaiser pharmacy analytical services biostatistician Fang Niu and Kaiser research scientist T. Craig Cheetham ’78, along with USC School of Pharmacy professor Jeffrey McCombs, analyzed clinical and laboratory information from Kaiser Permanente members throughout Southern California. The study’s findings are consistent with the ACCORD trial’s findings.

McCombs is a health economist. Niu and Cheetham are with Kaiser Permanente’s



Danielle Colayco, a 2008 USC School of Pharmacy graduate, conducted the study.

Kukla Vera

Pharmacy Analytical Service and the Department of Research and Evaluation in Pasadena. Cheetham and Colayco are USC School of Pharmacy graduates, each having earned both a doctor of pharmacy and master’s in pharmaceutical economics at the school.

“Conducting research in partnership with Kaiser Permanente colleagues allowed for findings that are generalizable to a wider population of patients than those often included in randomized controlled trials,” Colayco said.

Added Cheetham: “Our research supports the findings of the ACCORD study, provid-

ing additional evidence that aggressive A1C targets may not be optimal for all patients with diabetes.”

For a person living with type 2 diabetes, Colayco said the take-away message is to remain involved in your own care and be aware of potential benefits and risks related to treatment.

“Patients need to have an ongoing dialogue with their health care professional, and treatment plans need to be customized for each patient,” Colayco explained.

McCombs put the study into the context of new federal emphasis on comparative effectiveness research that is thought to be a key for reducing costs while improving quality of care.

“This study is an example of how research, using information contained in the electronic medical records [EMR] system, can be used to determine ‘what works best’ for patients,” he said. “Kaiser Permanente and other integrated health care systems are at the forefront of implementing EMR systems and conducting research using these data to improve patient outcomes and reduce cost.”

‘Our study shows that aggressive glycemic control may not always be the best treatment strategy for persons with type 2 diabetes.’

—USC graduate Danielle Colayco, principal research associate in global health outcomes strategy and research at Allergan

Exclusive access to drug data linked to higher drug prices, but also greater innovation

By Suzanne Wu

Pharmaceutical companies and generic drug manufacturers have long been at odds over regulations about data exclusivity, the period of time before generic manufacturers can make use of valuable clinical trial data.

A new study by USC health affairs researchers—the first to calculate the financial and social costs of limiting access to trial data—found that extending the term of exclusive access will lead to higher drug costs in the short term but also to more than 200 extra drug approvals and to greater life expectancy in the next several decades.

“Elected officials are unlikely to embrace legislation that would result in higher drug prices, but our research suggests that legislation to extend data exclusivity would spur innovation that would benefit future generations,” said Dana Goldman, the study’s lead author, director of the Schaeffer Center for Health Policy and Economics at USC and holder of the Norman Topping Chair in Medicine and Public Policy at USC.

The pharmaceutical companies that introduce new drugs are granted five years of exclusive access to the clinical trial data they submit during

the approval process. New indications and formulation developments of existing drugs are granted three years of exclusivity, and a six-month extension of patent or data exclusivity is granted if a drug is approved for use in pediatric populations.

In 2007, the National Academies Committee on Science, Engineering and Public Policy called for extending the data exclusivity term to the longer period used in Europe (10 to 11 years). But generic manufacturers have argued for shorter limits so that they can bring less expensive versions of drugs to patients sooner.

“Unfortunately, the health policy literature contains no information about the effects such a policy would have on innovation, population longevity and social welfare,”

said Darius Lakdawalla, research director at the Schaeffer Center at USC and associate professor at the USC School of Policy, Planning, and Development.

Samuel P. Bessman, former professor of pediatrics and chair of pharmacology and nutrition, 89

Samuel P. Bessman, a long-time professor of pediatrics at the Keck School of Medicine, died Jan. 4. He was 89.

Bessman served USC from 1968-1991 as a professor of pediatrics and chair of the Department of Pharmacology and Nutrition at the Keck School of Medicine. Bessman was known as an excellent teacher, a mentor and a prolific writer with over 200 publications.

He patented numerous medical devices including the first glucose sensor and the Piezoelectric driven diaphragm micropump. He was the first to develop a successful treatment for lead poisoning. Bessman proposed a theory of a chemical cause of Hepatic Coma, which changed the treatment of this disorder. He also proposed a theory for the intrauterine causes of mental deficiency and mental retardation in phenylketonuria.

Bessman is survived by his beloved wife Alice Bessman; they were married for 65 years. He is also survived by his son David (Joan) Bessman,



Jon Nalick

In a 2003 file photo, Bessman displays a 1943 rendering of his fencing team in which he is depicted second from left.

and daughter Ellen (Roger) Miller, five grandchildren and two great grandchildren. He was known for his love of poetry, glass blowing skills and workshop skills.

Contributions in his memory may be sent to The Simon Wiesenthal Center at 1399 South Roxbury Ave., Los Angeles, CA 90035 or a charity of your choice.

The Weekly

Next Issue: January 28

The Weekly is published for the faculty, staff, students, volunteers and visitors in the University of Southern California’s Health Sciences Campus community. It is written and produced by the Health Sciences Public Relations and Marketing staff. Comments, suggestions and story ideas are welcome. Permission to reprint articles with attribution is freely given.

Associate Senior Vice President, Health Sciences Public Relations and Marketing: Jane Brust

Executive Director of Communications and Marketing: Ina Fried

Editor: Jon Nalick

Contributors: Ryan Ball, Eva Blaauw, Tania Chatila, Carol Matthieu, Katie Neith, Gabrielle Olya, Sara Reeve, Leslie Ridgeway, Imelda Valenzuela, Kukla Vera and Suzanne Wu

Senior Vice President, University Relations: Martha Harris

Phone: 323-442-2830 Fax: 323-442-2832

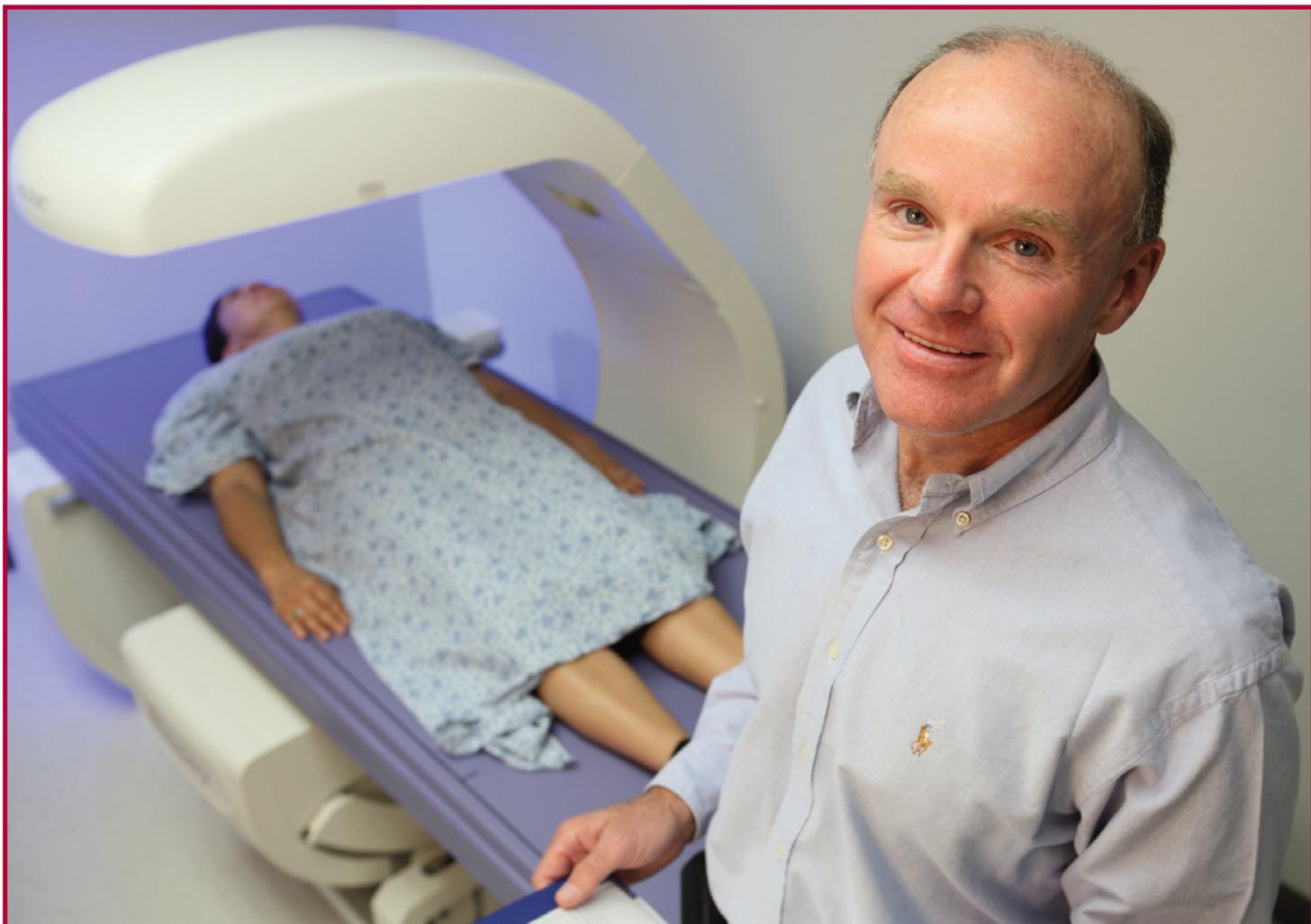
E-mail: hscwkly@usc.edu

Web: theweekly.usc.edu

RSS: <http://www.usc.edu/hscw>

2010: The Year in Review

The Health Sciences Campus boasted a range of successes in 2010, with the opening of a new world-class research facility, garnering national attention in prestigious rankings, scoring top accreditation scores and breaking ground on an important new building. This special section highlights some of the campus' key triumphs and progress of the last year.



Philip Channing

The Keck School of Medicine received a prestigious \$56.8 million Clinical and Translational Science Award from the National Institutes of Health to support and promote scientific discoveries and their application in real-life settings to health and health care. The award has an important focus on health issues of people living in densely populated urban environments. Principal investigator Thomas A. Buchanan, director of the Los Angeles Basin CTSI and associate dean for clinical research at the Keck School, is leading the highly interdisciplinary USC team that won the award.



Jon Nalick

In September 2010, W. Martin Kast (above), professor of molecular microbiology and immunology, and obstetrics and gynecology at the Keck School of Medicine, was named the 2010 Eminent Scientist of the Year and North American Immunologist of the Year by the International Research Promotion Council. Kast received the Millennium Golden International Award for his life's research of human papillomavirus, which is linked to cervical and other forms of cancer. He is the Walter A. Richter Cancer Research Chair at Keck and co-leader of the Tumor Microenvironment Program at USC Norris Comprehensive Cancer Center for cervical cancer, prostate cancer and melanoma.



Tania Chatila

Expanding its community-based outreach, USC opened a satellite location for The Doctors of USC in La Cañada in November (above). Another new USC clinical facility is set to open in Beverly Hills in February, and a satellite office in Pasadena is being planned.



Jon Nalick

USC broke ground on a new 120,000-square-foot building on Soto Street, which will house the USC Department of Preventive Medicine and the new Health Sciences Campus Wellness Center. The building is now nearly 65 percent complete. Move-in is expected in September. The building advances the goals of the Health Sciences Campus Master Plan—developed with input from faculty, staff and students representing medicine, pharmacy, dentistry and hospitals—which include better defining the campus and meeting the needs of varied constituents. The plan is pending approval by USC Trustees in early 2011.



Forty-two faculty members from the Keck School of Medicine, the Los Angeles County+USC Medical Center, and Children's Hospital Los Angeles travelled to Haiti to participate in medical relief efforts following the devastating earthquake in January 2010. A trauma team from LAC+USC was on the ground in Port au Prince 72 hours following the earthquake. The Keck School later hosted a delegation from the Haitian Ministry of Health and is now participating in rebuilding the health care system in Haiti.

The Keck School of Medicine's faculty and staff were active participants in the health care debates of 2010. Hundreds participated in campus Health Care Reform Town Hall meetings with Congressional representatives Adam Schiff and Xavier Becerra. Thousands of viewers seeking information about health care reform still visit the School's website and the Daily Digest of the Dean's Council on Health Reform.



Jon Nalick

California Gov. Arnold Schwarzenegger joined USC administrators, trustees and elected public officials in the much-anticipated dedication and ribbon-cutting ceremony for the Eli and Edythe Broad CIRM Center for Regenerative Medicine and Stem Cell Research at USC held Oct. 29. USC President C. L. Max Nikias and Keck School of Medicine of USC Dean Carmen A. Puliafito hosted the dedication ceremony, which Nikias called one of the most momentous days in the history of the Health Sciences Campus and the Keck School of Medicine. Eli and Edythe Broad, the building's namesakes and primary donors, gave \$30 million toward its development, which stands as one of the largest gifts given to the Keck School of Medicine of USC in recent years. The \$80 million, five-story, 87,500-square-foot project is the product of a public-private partnership between the Keck School, The Eli and Edythe Broad Foundation, and California's voter-created California Institute for Regenerative Medicine.



In September, *A Concert to Cure Cancer*, a gala benefiting the USC Norris Comprehensive Cancer Center and the new USC Center for Molecular Pathways and Drug Discovery, raised more than \$1 million, making it one of the most successful fundraising events in the Norris Cancer Center's history. At the *Concert to Cure Cancer*, Heinz-Josef Lenz (left), associate director of clinical research at USC Norris Comprehensive Cancer Center and Kathryn Balakrishnan Chair for Cancer Research, accepts a vial of a promising new cancer drug from Michael Kahn, professor of biochemistry and molecular biology, Provost's Professor of Medicine and Pharmacy. The two are co-directors of the USC Center for Molecular Pathways and Drug Discovery, which benefitted from the concert.



Philip Channing

The Keck School moved up five places in rank to 34th in the category "Best Medical Schools" in the 2011 *U.S. News & World Report's* Annual Guide to the Best Graduate Schools. In the magazine's annual rankings of "America's Best Hospitals," the Doheny Eye Institute ranked eighth in ophthalmology, while USC University Hospital urology debuted at 16th place. The hospital ranked 20th in neurology and neurosurgery, 28th in pulmonology, 29th in gynecology and 31st in orthopedics. Children's Hospital Los Angeles was one of eight children's hospitals in the country named to the magazine's Honor Roll.



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In April, USC University Hospital and USC Norris Cancer Hospital celebrated their first anniversary under USC ownership with a festive event for all personnel. Since the acquisition, hospital leaders have worked with physicians on space planning, nurse recruitment, faculty recruitment, IT development, marketing, capital equipment purchases and more. The hospitals' financial "mission support" to the Keck School of Medicine has increased to advance key academic programs. In December, the two hospitals launched Project Transformation, a springboard for creating a new organizational culture leading to alignment on a desired future, vision and goals.



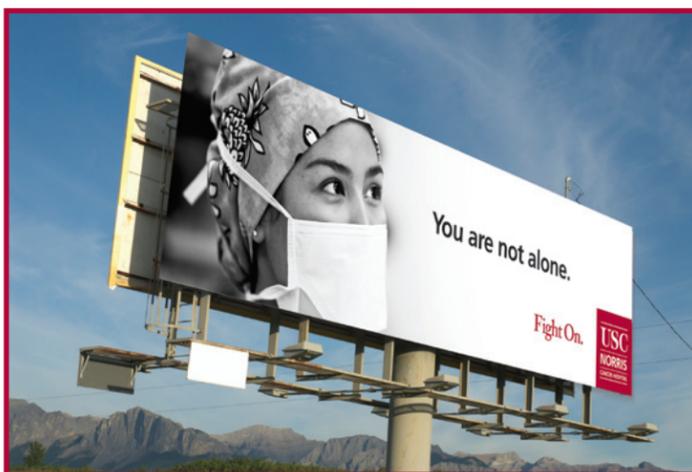
Jon Nalick

The USC Norris Comprehensive Cancer Center received positive comments from evaluators on a National Cancer Institute site visit. At press time, official notification of renewal of the Norris core grant was expected. USC Norris has held the designation of "comprehensive cancer center" since 1973, when it was named one of the first in the nation. Today it is one of 40 such centers.



Official White House photo by Lawrence Jackson

Roberta Diaz Brinton, director of the USC Science, Technology and Research (STAR) Program, received the prestigious 2010 Presidential Citizens Medal from President Barack Obama in a ceremony at the White House on Aug. 4. Considered among the nation's highest civilian awards, the medal recognizes citizens who have performed exemplary deeds of service for the nation. Brinton, who holds the R. Pete Vanderveen Chair in Therapeutic Discovery and Development in the USC School of Pharmacy, was recognized for work in improving science and technology education for students in Los Angeles through the STAR Program for the last 22 years. The STAR program provides elementary, middle and high school students and their teachers with unique access and tools that are structured to engage the students in science.



In January, an historic marketing campaign was launched to create consumer awareness of and preference for the two USC-owned hospitals. Billboards, radio spots, print ads and digital ads touted the "Fight On" mantra. More recent efforts have focused on communication with referring physicians. An online directory of The Doctors of USC was promoted among community physicians, and a new series of *USC Clinical Briefs* began to provide communication about new faculty physicians and key service lines to targeted physician groups.



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The Keck School of Medicine raised \$92 million in philanthropic contributions in calendar year 2010. Among these contributions were a \$24 million gift from Sumner Redstone (center right) to support cancer research at the USC Westside Prostate Cancer Center and a \$5 million dollar gift from the Annenberg Foundation to establish the Wallis Annenberg Endowed Scholarship Program for medical students.

Atomic bombing survivor describes experiences at IGM Art Gallery event

By Ina Fried

It was the summer before sixth grade, and Yoshiro Yamawaki was at home with two of his brothers. Suddenly a roar shook the house. As the boys covered their eyes and ears, plaster and parts of the building fell on them. When the noise and shaking stopped, they could see the sky through what had been the roof. Almost everything had changed.

The date was Aug. 9, 1945, and the place was Nagasaki, Japan. Yamawaki, an atomic bomb survivor, described his experiences last week, Jan. 6, as part of a panel discussion on “Nuclear Fallout: Health/Public Policy/Human Cost” at the USC Institute for Genetic Medicine (IGM) Art Gallery.

After waiting anxiously overnight in a bomb shelter, the three brothers passed burned bodies and crossed the devastated city, covered with dust and shards of glass, to reach the factory where their father worked. The factory had exploded; their father was dead. From a city of about 240,000 people, more than 70,000 people were killed, another 70,000 injured. Yamawaki, now 77, has been admitted to the atomic bomb hospital 15 times, including several surgeries for stomach cancer.

“I pray that the tragedy that I witnessed at the age of 11 will not be repeated,” Yamawaki said. “It is said that there are some 20,000 or 30,000 nuclear warheads that are used in research that are more powerful than the bombs that exploded in Hiroshima



Above, the IGM Art Gallery displays atomic weapon-themed works in conjunction with the Hiroshima/Nagasaki Memorial Project, dedicated to support international efforts advocating for peace and global nuclear disarmament.

Right, atomic bomb survivor Yoshiro Yamawaki reads prepared comments about his experiences in a live webcast from Nagasaki, Japan.

and Nagasaki.”

Yamawaki spoke via live webcast from the Nagasaki National Peace Memorial Hall for the Atomic Bomb Victims.

At the IGM, panelists Sandy Bleife, an artist; Tomoko Maekawa, an ambassador for City of Nagasaki peace initiatives; David Krieger, president, Nuclear Age Peace Foundation; and James Hara, Los Angeles-area physician and board member of Physicians for Social Responsibility, discussed the bomb’s effects. Loss of access to medications, delayed onset diseases, disruption of magnetic and electronic equipment, and

climate change were short-term results; disruption of cultural and social patterns and irreversible genetic damage linger on.

A Japanese-American born in an internment camp during World War II, Hara said President Franklin D. Roosevelt talked about the Day of Infamy, Dec. 7, 1941, on which Japan attacked Pearl Harbor. “I would submit to you,” Hara said, “that there were two more days of infamy, Aug. 6 and 9, 1945, when the U.S. dropped two bombs on two civilian populations, killing close to 140,000 individuals outright in Hiroshima and over

70,000 people in Nagasaki.”

The program was presented in conjunction with Bleifer’s Hiroshima/Nagasaki Memorial Project, on display in the IGM art gallery. The exhibit, the associated education programs and forums are dedicated to healing wounds and preventing behaviors that result in violence and support international efforts advocating for peace and global nuclear disarmament. For a list of sponsors and partners see <http://tinyurl.com/489fcyf>.

‘I would submit to you that there were two more days of infamy, Aug. 6 and 9, 1945, when the U.S. dropped two bombs on two civilian populations, killing close to 140,000 individuals outright in Hiroshima and over 70,000 people in Nagasaki.’

—James Hara, Los Angeles-area physician and board member of Physicians for Social Responsibility

AAAS: USC’s research luminaries named to prestigious organization

Continued from page 1

• C. C. Jay Kuo, holder of the Fulbright-Nokia Wireless Communications Chair and professor of electrical engineering/systems and mathematics at the USC Viterbi School of Engineering.

Caron, interim director of the USC Wrigley Institute for Environmental Studies, is honored for his work in marine microbial ecology, “particular-

ly regarding phagotrophic and autotrophic protists and harmful algae blooms,” according to the award committee.

Crimmins, director of the division of Health and Human Services at the Andrus Gerontology Center at USC and co-director of the USC/UCLA Center on Biodemography and Population Health, is honored for “major contributions to the demography of aging,

particularly for the developing field of biodemography through incorporating biological information into social and behavioral analyses.”

Edwards, director of the National Science Foundation-supported Center for Dark Energy Biosphere Investigations in Los Angeles, is honored for “important discoveries on interactions between

microbes and minerals, especially at the ocean floor, how these influence global biogeochemical processes and for international leadership.”

Kuo, a professor in the Ming Hsieh Department of Electrical Engineering and director of the Multimedia Research Group in the USC Viterbi Signal and Processing Institute, is honored for “multimedia technologies and applications,

particularly for multimedia coding, processing, communication, networking, contents and rights management.”

New fellows will be inducted in an official ceremony on Feb. 19 at the AAAS Fellows Forum during the 2011 AAAS annual meeting in Washington, D.C.

This year’s AAAS fellows will be announced in the journal *Science* on Jan. 28.

The Weekly NEWSMAKERS

A Jan. 6 *Scientific American* article highlighted **David Agus** of the Keck School of USC and the Physical Science-Oncology Center at USC, one of 12 set up across the country by the National Cancer Institute. Agus and colleagues are studying why chemotherapy works well for some cancer patients, but fails to help others. “We need new innovations and new ways of thinking,” Agus said.

A Jan. 6 *Boston Globe* article featured research by **Qilong Ying** and colleagues, who successfully created the first “knockout” rats—animals that are

genetically modified to lack one or more genes—through embryonic stem cell-based gene targeting.

A Jan. 7 *Los Angeles Times* article featured **Emil Bogenmann** who created the Latino & African-American High School Program, a rigorous science research immersion initiative at Children’s Hospital Los Angeles for low-income students. All 46 of the program’s graduates have gone on to distinguished four-year colleges, the story reported. “These kids are dynamite kids,” Bogenmann said. “It really is incredible.”

A Jan. 11 *Fresno Bee* article quoted **Jeff Victoroff** in a story about Tucson shooter Jared Loughner. Victoroff said Loughner exhibited a potentially deadly mix of psychiatric problems: schizophrenia spectrum disorder coupled with control override delusions. Based on Loughner’s delusional writings, Victoroff said, the young man apparently believed that the government was controlling him.

“This is the worst combination you can have,” he said. “That’s what he exhibits, and substance abuse makes it worse.”

Calendar of Events

This Calendar of events is also online at www.usc.edu/hscalendar for the Health Sciences Campus community

Tuesday, January 18

11 a.m. Endocrinology Seminar. "Lipid Disorders in HIV," Michael Dube, USC. HMR 100. Info: (323) 442-2806

Noon. Psychiatry Grand Rounds. "Suicide Behavior in Bipolar Disorder," Maria Oquendo, Columbia Univ. ZNI 112. Info: (323) 442-4065

Wednesday, January 19

Noon. Dean's Translational Medicine Seminar Series. "Diabetes Innovation: From Academia to Industry," Francine Kaufman, USC. KAM Mayer Aud. Info: (323) 442-7732

Thursday, Jan. 20

Noon. ZNI Seminar. "Role of Dendritic Spine Cytoskeleton Dynamics in Time-dependent Learning Rules," Christopher Rex, UC Irvine. ZNI 112. Info: (323) 442-2144

Noon. Cellular Homeostasis Lecture Series. "Aging-related Changes Stem Cells and the Stem Cell Niche," Leanne Jones, Salk Institute. MCH 156. Info: (323) 442-3121

Noon – 2 p.m. USC Black Staff and Faculty Caucus: 30th Annual Dr. Martin Luther King, Jr. Celebration 2011. Program will feature music performances, presentations and a keynote address. UPC Bovard Aud. Info: (213) 740-5649

Friday, Jan. 21

8:30 a.m. Surgical Grand Rounds. "Thoracic Surgery Education in the Future," Edward Verrier, Univ. of Washington Regional Heart Center. DOH 100. Info: (323) 442-2506

11 a.m. Hematology Grand Rounds. "ASH Update: Multiple Myeloma," Sikander Ailawadhi, USC. IPT C2J103. Info: (323) 865-3950

11:30 a.m. Physical Sciences in Oncology Center Seminar. "Cancer Cell Stress Response and the Evolution of Resistance – the Connection between the Physical Microenvironment and Nuclear Structure," Robert Getzenberg, Johns Hopkins Univ. CSC 240. Info: (323) 442-3849

Tuesday, Jan. 25

11 a.m. Endocrinology Seminar. "How Does Obesity Cause Type 2 Diabetes and What Can We Do About It?" Thomas Buchanan, USC. HMR 100. Info: (323) 442-2806

Thursday, Jan. 27

10 a.m. - 2 p.m. "Business Diversity EXPO 2011," showcasing USC small local, women-, minority-, and veteran-owned businesses. UPC: TGC Ballroom (lower level). Info: (213) 821-1787

Noon. Cellular Homeostasis Lecture Series. "Modeling Immuno-pathogenesis and Therapy of HIV-1 and HCV in Humanized Mice," Lishan Su, Univ. of North Carolina. MCH 156. Info: (323) 442-3121

Tuesday, Feb. 1

Noon. Psychiatry Grand Rounds. "Using Physical Restraints in Psychiatric Settings," John Jimenez, USC. ZNI 112. Info: (323) 442-4065

Monday, Feb. 7

Noon – 5 p.m. USC Women's Cardiovascular Center. Free Heart Screenings. Register by calling (323) 442-6278.

Tuesday, Feb. 8

5 p.m. Global Health Lecture. "Combustion Particles and Global Health: Cooking, Smoking and Climate," Kirk Smith, UC Berkeley. NRT Aresty Aud. Info: (323) 865-0419

Friday, March 4

3 p.m. Global Health Lecture: Visions and Voices Signature Event. "Betrayal of Trust: Critical Issues in Global Health-

Notice: Deadline for calendar submission is 4 p.m. Monday to be considered for that week's issue—although three weeks' advance notice of events is recommended. Please note that timely submission does not guarantee an item will be printed. Send calendar items to *The Weekly*, KAM 400 or fax to (323) 442-2832, or e-mail to eblaauw@usc.edu. Entries must include day, date, time, title of talk, first and last name of speaker, affiliation of speaker, location, and a phone number for information.

Pharmacy students grant a patient's wish

By Gabrielle Olya

Fourteen-year-old Carlos has been in and out of Los Angeles County+USC Medical Center throughout 2010. This, too, was the case on the day he was slated to attend his first USC football game in person.

An avid fan of Trojans football, Carlos was personally given tickets to the game by the football team when its members visited LAC+USC Medical Center. Due to another hospital stay, however, he had to forgo the opportunity and missed the game.

Lindsey Tsugawa, a USC School of Pharmacy graduate student on a pediatric pharmacy rotation at the hospital, was part of the team caring for Carlos. When she found out that he was going to miss seeing the Trojans play, she set her sights on making it possible for him to see a subsequent game.

"He's such a good patient and he loves football," Tsugawa said. "He got inspiration from the players, so I wanted to make sure he would be able to go to a game."

NFL: Study will examine athletes' heart rates

Continued from page 1 of Business and USC Athletics, to think about, study, and create the future of health care.

The USC Center for Body Computing is considered the most comprehensive wireless health institute in the world. The Center for Body Computing hosts the annual Body Computing Conference, develops award-winning medical applications, and pioneers significant research. The Center for Body Computing fosters low-cost health solutions that can lead to better health outcomes across the globe, especially in the developing world. The Center also focuses on wellness and the discovery of faster cures for common diseases like heart disease.

For information about the USC Center for Body Computing, please contact: Alexandra Smith: Alexandra.Smith@med.usc.edu



USC School of Pharmacy students Derek Garcia and Lindsey Tsugawa raised money to help a 14-year-old patient—and serious USC Trojan football fan—attend the USC-Notre Dame game with his father and a family friend.

Irving Steinberg, director of pediatric pharmacotherapy at LAC+USC Medical Center and an associate professor at the schools of pharmacy and medicine, said: "Lindsey was working under my supervision at the hospital when the opportunity with Carlos evolved. Because she wanted to ensure that Carlos would have a chance to see his favorite team play before the season was over, she put down her own money to hold the tickets until the funding could be raised."

Tsugawa then turned to fellow pharmacy student Derek Garcia, the president of Phi Delta Chi, USC's professional pharmacy fraternity, to help raise the funds.

"I couldn't say no," Garcia said. "It's the time of year to give back, and Carlos seemed

like such a good kid with an amazing perspective on life."

Garcia diverted funds from other projects organized by Phi Delta Chi to cover the cost of the tickets. Through these efforts, Carlos was finally able to attend the USC-Notre Dame game with his father and a friend.

Tsugawa said the inspiration behind helping Carlos came from her team at LAC+USC Medical Center.

"They are so caring when it comes to their patients. They really go above and beyond, so I really wanted to do my part too," Tsugawa said. "It has been my family's tradition to donate to a charity every year around the holidays, and I was excited to be able to bring some of my family traditions to the pharmacy and hospital setting."

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Public Relations and Marketing
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