



UC Irvine Health
School of Medicine

Dean's Report

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Deserving medical students named ARCS scholars



UC Irvine School of Medicine hosted the 2013 ARCS (Achievement Rewards for College Scientists) Foundation Orange County Chapter Annual Scholars Luncheon in December. From left, Dean Ralph Clayman, ARCS scholarship recipients Maria Inez Falcon, Suzanne Klaus, Virginia Liu, Senior Associate Dean Al Goldin and Associate Dean of Graduate Studies Klemens Hertel. The ARCS Foundation is a nonprofit national volunteer organization of women dedicated to providing scholarships to recognize and reward the country's most academically superior students exhibiting outstanding promise as scientists, researchers and public leaders.

Discover

Epigenetics conference draws attention of world's leading genetic researchers

Teach

Only medical school in the nation honored twice for Apple Distinguished Program

Heal

UC Irvine autism team addresses California Senate Select Committee

Discover

Conference draws world's leading genetic researchers

The Center for Epigenetics & Metabolism hosted its second annual Epigenetic Control and Cellular Plasticity symposium on Dec. 12-13, bringing together more than 200 of the top scientists in the field. The symposium's theme centered on how epigenetic control and chromatin remodeling contribute to various processes that lead to cellular plasticity. The understanding of the molecular mechanisms responsible for this level of control is likely to bring essential information for future strategies in pharmacology, stem cell biology and therapeutics. The symposium was followed by a workshop on emerging methodologies and the use of biocomputing in genomics and epigenomics. The Center for Epigenetics & Metabolism is led by Paolo Sassone Corsi (pictured), the Donald Bren Professor of Biological Chemistry and one of the world's leading researchers on the genetics of circadian rhythms. This meeting marks the collaboration between the Institut de la Santé et de la Recherche Médicale (INSERM) of France and UC Irvine, which has led to the creation of the research unit U904 "Contrôle Epigénétique de



la Plasticité Neuronale," which is based in the School of Medicine. More: <http://cem.igb.uci.edu>

Leslie Thompson named fellow of the AAAS for 2014

Neuroscientist Leslie Thompson (pictured) was one of two UC Irvine researchers named fellows of the American Association for the Advancement of Science, the world's largest general scientific society. A total of 338 AAAS members are being honored this year for their efforts to advance science or its applications. New fellows received an official certificate and a gold and blue rosette pin at the organization's annual meeting in Chicago. Thompson, a professor of psychiatry & human behavior, was selected for her distinguished contributions to the Huntington's disease field, particularly relating to mechanisms underlying the cause of the disease, to medical school teaching and to HD-related professional societies. She's also affiliated with the Sue & Bill Gross Stem Cell Research Center and UCI MIND. Thompson is the 134th UC Irvine faculty member to become an AAAS fellow. More: stemcell.uci.edu



Study finds Chinese herbal compound relieves pain

A compound from a traditional Chinese herbal medicine has been found effective at alleviating pain, pointing the way to a new nonaddictive analgesic for acute inflammatory and nerve pain, according to UC Irvine pharmacology researchers. Working with Chinese scientists, Olivier Civelli and his team isolated a compound called dehydrocorybulbine (DHCB) from the roots of the *Corydalis yanhusuo* plant (pictured). In tests on rodents, DHCB diminish both inflammatory pain, which is associated with tissue damage and the infiltration of immune cells, and injury-induced neuropathic pain, which is caused by damage to the nervous system. Of importance is there is currently no adequate treatments for neuropathic pain. Moreover, the researchers found that DHCB did not generate the tolerance seen with continued use of most conventional pain relievers, such as morphine. "Today the pharmaceutical industry struggles to find new drugs. Yet for centuries people have used herbal remedies to address myriad health conditions, including pain," said Civelli, the Eric L. & Lila D. Nelson Chair in Neuropharmacology. "We're excited that this one shows promise as an effective pharmaceutical." More: www.pharmacology.uci.edu



Teach

iMedEd Initiative again named Apple Distinguished Program



The iMedEd Initiative – an innovative, one-of-a-kind medical education program in the UC Irvine School of Medicine based upon iPad tablet computing – has once again been named an Apple Distinguished Program. The iMedEd Initiative joins select programs that Apple is honoring nationwide as exemplary learning environments, and UC Irvine is the only medical school program to receive this recognition. The Apple Distinguished Program designation is reserved for programs that integrate Apple technology in education and meet criteria for visionary leadership, innovative learning and teaching, ongoing professional learning, compelling evidence of success, and a flexible learning environment. Started in 2010, UC Irvine iMedEd Initiative was the first in the nation to build a completely digital, interactive learning environment – which includes tablet-based learning and portable ultrasound clinical training – and continues to lead in adapting emerging technologies for classroom and clinical training. More: www.imeded.uci.edu

Medical and computer science students team up for Med AppJam II

School of Medicine and Donald Bren School of Information & Computer Sciences students teamed up for the second annual “app jam” designed to create Apple-based applications with healthcare utility. Student teams signed up to hammer out caffeine-fueled ideas over a fren-



zied week of collaboration, leading to apps that can remind users to take their meds, help patients better explain the basis of their pain to their physicians, and efficiently track patient medical histories. On Nov. 22, the teams presented their products to judges from the UC Irvine faculty and high-tech companies, with the top three teams receiving \$1,000, \$500 and \$250 prizes. First place went to the team that created “Berry,” an app which helps patients manage their diabetes (pictured). “This is where medicine is heading,” said Dr. Ralph Clayman, dean of the School of Medicine. “Mobile medicine – using smart phones and iPads to access healthcare.” More: sites.uci.edu/imeded

Health Catalyst effort pairs students, participants in prevention program

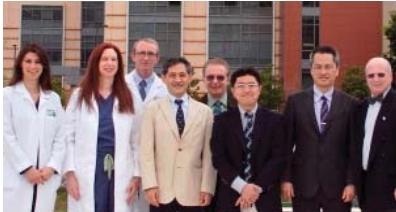
UC Irvine medical students are first in the nation to participate in an innovative Health Catalyst Program that promises to improve both



medical education and the overall health of its patient participants. In this program, first-year students take preparatory elective courses in mindfulness-based stress reduction, nutrition and diet, exercise and activity, and motivational interviewing and facilitation of small groups. They then are teamed up with employees of an Irvine-based company to “coach” them in small groups and individually on preventive health. The program’s first cohort included four students and 48 patient participants. Program director Dr. David Kilgore (pictured), professor of family medicine, said his team will review the data and present results at an upcoming conference. He believes that the program can be extended to involve many more medical students and participating companies who value their employees’ health. “With our Health Catalyst Program, we want to show that an ounce of prevention is better than a pound of cure,” he said. More: www.familymed.uci.edu

Heal

Emergency medicine group helps start Doctor-Heli program in Japan



The Department of Emergency Medicine and its Center for Disaster Medical Sciences are working with the University of Miyazaki's Doctor-Heli program in Japan to improve its aero-medical program and to further mature the prefecture's EMS system. The goal is to implement innovations in the Doctor-Heli program that could later be adopted by other Doctor-Heli programs throughout Japan. The collaboration began in the spring of 2012, and currently the team is developing a utilization manual. The manual lists several general indications for the request of the aircraft as well as many symptom-based indications. In the next few years, the team aims to establish a system of data collection of prehospital care for the entire prefecture and to mature the EMS system – ground, aviation and receiving center – for the entire prefecture. "The team members from Miyazaki are enthusiastic and highly skilled, and it is an honor to work with them," said Dr. Robert Katzer, an EMS fellow at

UC Irvine who serves as the principal point of contact to consult on program development and implementation. "The future is bright for the Doctor-Heli program in Japan." Pictured are UC Irvine and Miyazaki participants in the effort.

More: www.cdms.uci.edu

UC Irvine orthopaedic surgeons selected for use of robotic technology

UC Irvine Health orthopaedic surgeons Dr. Samuel Bederman, Dr. Nitin Bhatia and Dr. Douglas Kiestler were selected by *Becker's Spine Review* for inclusion in its list of "49 Spine Surgeons Using Robotic Technology." Many of the spine surgeons and specialists on this list were among the first surgeons in their geographic area to adopt robotic guidance and technology in their procedures. Some have participated in the ongoing efforts to develop and refine the robotic technology and continue to provide feedback for next-generation software and equipment. In 2011, Bederman and Bhatia performed the first robot-assisted spine surgery on the West Coast. *Becker's Spine Review* is a Chicago-based online and print publication focused on news and analysis of the business and legal issues related to spine surgeons and practices.

More: www.orthopaedicsurgery.uci.edu

UC Irvine autism team addresses state senate

UC Irvine Health autism experts, including Dr. Joseph Donnelly (pictured), addressed California's Senate Select Committee on Autism & Related

Disorders on Nov. 13, at the new location of the Center for Autism & Neurodevelopmental Disorders



in Santa Ana. They spoke about the importance of supporting autism research and treatment, focusing on an entrepreneurial philanthropy model pioneered by the center. The informational hearing, which was led by state Sen. Lou Correa, provided an overview of the autism-related challenges and opportunities that currently exist in academia. Through a first-of-its-kind public/private partnership, the William & Nancy Thompson Family Foundation and the Children & Families Commission of Orange County provided \$14.8 million to create the Center for Autism & Neurodevelopmental Disorders, which takes a multidisciplinary approach to clinical care, education, research and community support. The event was streamed live on the committee's website at <http://autism.senate.ca.gov>



Calendar of Events

Tuesday, March 4

Innovations in Medical Education
10 a.m.
Med Ed Building (Irvine campus)
One-hour medical simulation center tour
and student demonstration of ultrasound
and iPad technology

Research Associates
Gavin Herbert Eye
Institute Tour*

11 a.m.
Location: Gavin Herbert
Eye Institute
Tour and luncheon featuring Dr. Roger
Steinert, Institute director
*Registration fee required



Saturday, March 8

American Heart Association Heart Walk
9 a.m.

Location: Angel Stadium,
Anaheim

To promote healthy life-
styles, join the UC Irvine
team in a few simple
steps:

1. Visit www.oheart-walk.org
2. Click on "Find a Com-
pany" on the left
3. Select "UCI"
4. Select "UCI Medical Center"



Friday, March 21

School of Medicine
Match Day
9 a.m.
Med Ed Building (Irvine
campus)



Saturday, April 26

UC Irvine Health Gala, Healers & Heroes*
5 p.m.
Disney's Grand Californian
*Reservations required

For additional information on any of these
events, please contact Carley Fox at
949-824-9157 or foxc@uci.edu

Homecoming 2014

On Jan. 25, UC Irvine students, faculty
and alumni participated in UC Irvine's
annual Homecoming Street Festival.
The street festival featured live music
and dance performances, a beer gar-
den, food trucks, caricatures, carnival
games, and guest appearances by
Peter the Anteater, UC Irvine coaches
and the 2014 Homecoming Court. The
School of Medicine proudly hosted a
booth, where alumni learned about
the latest innovations at the medical
school, reconnected with other medi-
cal alumni, and met with some of our
current medical students. Thank you
to all our alumni for participating in
this great event. We hope you'll join
us again next year!

Innovations in medical education



Learn how technology is transforming medical education today
and medical care in the future. Personal tours are available,
including demonstration and discussion of UC Irvine's innova-
tive simulation, ultrasound and tablet computer technology
applications. Contact Linda Haghi for a personal tour at
949-824-3724 or lhaghi@uci.edu.

From the Dean

As 2014 begins, we reflect on the unprecedented momentum we gained at UC Irvine Health over the past year. We made important strides toward our vision to be recognized as a top 20 academic medical center in the



nation. Among many accomplishments, a few highlights include:

In Discover:

- *U.S. News & World Report* ranked the School of Medicine 42nd among American Medical Colleges, up two spots from last year.
- Conte Center's grant of \$10 million for studies in the neurosciences, obtained by Dr. Tallie Z. Baram, makes UC Irvine home to the only Conte Center in the UC system and only one of 15 in the country.
- UC Irvine's 90+ study, the nation's largest program on dementia and other healthy factors in the fastest-growing age demographics, led by Dr. Claudia Kawas, will continue for another five years, with a \$9.5 million renewal grant from the National Institute on Aging.

In Teach:

- iMedEd Initiative reaches a new milestone, with all four years of curriculum available by tablet computing.
- The School of Medicine was the only medical school in the country to be honored as an Apple Distinguished Program 2013-2015.

- Major support from SonoSite, Inc. was obtained in order to build a state-of-the-art ultrasound teaching facility in the Medical Education Building under the guidance of Dr. Chris Fox.

• Applicants to the School of Medicine have increased by 25 percent over the past four years; last year there were over 5,700 applicants for our 104 positions in the medical school.

In Heal:

- UC Irvine Medical Center was listed among America's Best Hospitals for the 13th consecutive year. Geriatrics, kidney disorders and urology ranked in the top 50 specialties nationally.
- More than 100 of our UC Irvine Health doctors are among "Best Doctors in America."
- Gavin Herbert Eye Institute opened its new 70,000-square-foot home in September.
- Internationally recognized for his groundbreaking research focusing on chronic myeloid leukemia and other hematological malignancies, Dr. Richard Van Etten was appointed director of the Chao Family Comprehensive Cancer Center.
- The newly remodeled Infusion Center opened in the cancer center, offering patients a healing and serene environment in which to receive treatment.
- UC Irvine Health announced an

unprecedented affiliation with MemorialCare Health System—creating the most comprehensive county-wide healthcare network for payers, employers and consumers.

In Administrative/Advancement:

- The 2013 UC Irvine Health School of Medicine Gala, "Creativity & Magic: Discovering Tomorrow's Medicine Today," raised \$1.26 million to benefit autism, innovative education programs and groundbreaking medical research at the School of Medicine.
- Three academic chairs were endowed: Dykema Chair in Pancreatic Cancer, Chair in Digestive Diseases, Chair in Urologic Oncology.

I would like to thank our faculty, our staff and our community supporters who have continued to dedicate their time and their passion for excellence to our progress. With each new year comes new opportunities for us to grow and to realize our vision of being recognized as a top 20 academic health center in our mission: Discover. Teach. Heal.

With gratitude,

A handwritten signature in black ink that reads "Ralph V. Clayman". The signature is written in a cursive style.

Ralph V. Clayman, MD
Dean, School of Medicine
Professor of Urology

Support

Dean's Scholars Fund attracts the best and brightest to UC Irvine

UC Irvine School of Medicine is establishing the Dean's Scholars Fund, a merit-based scholarship program designed to attract some of the most promising students in the nation to our school.

Today, UC Irvine's talented medical students graduate with an average debt of \$143,375. Offering full, four-year merit scholarships makes it possible to graduate debt free and gives the best and brightest in the country another reason to consider UC Irvine for their training.

UC Irvine has been able to offer a few partial merit scholarships, thanks to our donors. Sam Vesuna (pictured) from Los Altos, Calif., received one of the scholarships.

"The scholarship is a great honor," said Vesuna, a second-year



medical student. "It means not only that I can focus on learning, inventing and serving others in medical school, but that I will be able to continue to do so dur-

ing my medical career. It was a significant factor in selecting UC Irvine.

"UC Irvine's spirit of innovation is remarkable," Vesuna said. "From its lecture halls to the lab and clinic, the school's commitment to lead is palpable and affords extraordinary opportunities for its medical students. The iPad initiative combined with our exceptional clinical ultrasound training will prepare me to be a technological pioneer and future leader in medicine."

To learn more about the Dean's Scholars Fund, and other ways you can support the school and its students, please contact Teri Hauser at 949-824-7910 or thauser@uci.edu.

A New Year, New Taxes

With tax season upon us, there are a number of tax changes that might affect you. You could find yourself paying a higher tax bill, even if nothing changed for you personally last year (income, marriage, financial situation, etc.).

While you can't do anything about last year, you can resolve to take some steps to help you mitigate your taxes this year.

Resolve to Save on Taxes This Year

A quick look at tax changes within the last two years and their potential impact on your income.

IF YOU ARE AN INDIVIDUAL

With more than:	You pay:
\$250,000 in income	0.9% Medicare tax
\$250,000 in modified adjusted gross income	3.8% Medicare surtax on net investment income
\$450,000 in taxable income	39.6% top marginal income tax rate

IF YOU ARE A MARRIED COUPLE

With more than:	You pay:
\$200,000 in income	0.9% Medicare tax
\$200,000 in modified adjusted gross income	3.8% Medicare surtax on net investment income
\$400,000 in taxable income	39.6% top marginal income tax rate

Call us today to learn more about what you can do to reduce your taxes and make a positive impact in our community. 949-824-6454

Alumni News

Dr. Richard F. Kammerman: True champion and supporter

UC Irvine School of Medicine in

January lost a beloved alumnus,



Dr. Richard F. Kammerman '62, who for nearly half a century was a preeminent champion and supporter of the medical school, its mission and its medical students.

He received his medical degree in 1962 from the California College of Medicine, the precursor of UC Irvine's School of Medicine, and went on to have a distinguished career as an Orange County family practitioner. Over the years, he was named "Man of the Year" by the Santa Ana

Junior Chamber of Commerce; "Man of Character" by the Boy Scouts of America, Orange County Council; and "Physician of the Year" by both the Orange County Medical Association and the Orange County Chapter of the California Academy of Family Practitioners. He retired from private practice in 1999.

For more than 20 years, Dr. Kammerman volunteered on the School of Medicine Admissions Committee, devoting many hours to selecting the next generation of physicians to train at UC Irvine. He also served as a clinical professor of family medicine and spent countless hours mentoring students in physical exam and communication skills for the Clinical Foundations course.

In 2011, Kammerman was recognized by the California Medical Association as a Physician Humanitarian and received the UC Irvine Lauds & Laurels Distin-

guished Alumni Award for the School of Medicine in recognition of his devotion to the medical school. Dr. Kammerman was the first recipient of the Richard Kammerman, MD Award for Volunteer Faculty, an award named in his honor for distinguished practice and teaching in Family Medicine. Medical students recognized him with the "Excellence in Teaching Award."

A member of the School of Medicine Alumni Board since its inception, he served as co-president in 2011, helping to reengage and reenergize the board. Thanks to his long-standing connection with the medical school, we are more connected than ever to thousands of School of Medicine alumni practicing medicine throughout the world. To make a contribution to the Department of Family Medicine to honor Dr. Kammerman's memory, please visit www.uadv.uci.edu/Kammerman.

Hosts wanted for Dinner with Doctors program

Calling all alumni! Share your career experiences with medical students in an informal setting. This spring we will launch a new program, Dinner with Doctors, which brings current medical students and alumni together for an evening of food, fun and engaging conversation. These sessions consist of a small group of



students gathering for dinner in the home of a local alumna or faculty member in a certain specialty, where they can learn more about a career and lifestyle

associated with that specialty. We are currently seeking gracious alumni to open their homes and provide our medical students with advice and mentorship over a causal dinner. If you'd like to sign up to host a dinner or learn more about this program, please contact Carley Fox at 949-824-9157 or foxc@uci.edu.