This Takes Practice
The team below is practicing their emergency resuscitation skills in the OHSU Doernbecher Neonatal Intensive Care Unit.

**Respiratory Therapist**
Assessing baby’s breathing and oxygenation.

**Pediatric Medical Resident**
Holding endotracheal tube for ventilator.

**Neonatal Nurse Practitioner**
Holding umbilical catheter to administer drugs.

**Attending Neonatologist**
Leading team. Reassessing every 30 seconds and giving direct instructions.

Real Results  Making sure a baby gets enough oxygen in the first 90 seconds after birth is crucial. After adopting the simulation-based neonatal resuscitation training shown above, OHSU has improved survival rates and decreased brain injury in the smallest and most vulnerable premature babies. “When we learn as a team, we learn how our individual work contributes to the whole. And that translates into healthier babies,” said JoDee Anderson, M.D., M.Ed., director of OHSU’s pediatric simulation education program.

On the cover and to the right:
OHSU’s neonatal emergency resuscitation team members hone their skills with a simulated emergency. From left to right: Marissa Burch, N.P.; Paco Corbalan, M.D.; Jill Stowell, R.T.; Jason Kroening-Roche, M.D.; JoDee Anderson, M.D., M.Ed.; Dan Morrow, M.D.; Marilyn Ritenour, R.N.; Patty Dawson, N.P.

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**Extra** is a publication of the OHSU Foundation for friends and supporters of Oregon Health & Science University. **Extra** is:
- The passion and skill of OHSU’s caregivers
- The stature of its world-class research programs
- The strength of its commitment to train tomorrow’s health and science workforce

**Extra** is also the dedication of OHSU supporters whose investment and advocacy make extraordinary things possible.
Simulation: The very real future of health care education

Before they fly solo, commercial airline pilots log hundreds of hours in flight simulators training for any eventuality. And yet until the 1990s, the same could not be said of an emergency room team. Today things are different, thanks to simulation training designed to provide low-risk practice for high-stakes situations. OHSU’s world-class simulation faculty – and philanthropic community – will play a key role in taking simulation to a new level.

As our nation’s health care system evolves, so does health care instruction. Simulation training is emerging as the key to developing the technical skills and interdisciplinary teamwork required of today’s health care professionals. OHSU students from every discipline are honing their ability to work together, led by national experts in simulation training and research. With a new 20,000 square foot simulation facility under construction, OHSU has made a significant investment in the future of simulation. The university’s ambitious plans include raising at least $2.5 million in philanthropic support.

“See one. Do one. Teach one. That was the old model,” said Jeanne-Marie Guise, M.D., M.P.H., co-director of OHSU’s simulation programs and a national expert in evaluating simulation training. “We’ve come a long way since then.”

Today OHSU’s schools of medicine, nursing and dentistry have developed simulation programs that reach far beyond what a commercial pilot could ever dream of. From realistic emergency drills that teach teams how to resuscitate struggling newborns (at left) to sophisticated software that can mimic endoscopic surgery, simulation education at OHSU ranges from high drama to high tech.

OHSU’s simulation leaders believe that excelling in communication and teamwork is as important as mastering technical skills. This holds especially true in the hospital emergency department, where teams must work with speed, coordination and accuracy.

“Health care is increasingly a team sport. It’s important to establish strong relationships before you head into a crisis,” said Robert Cloutier, M.D., program director for OHSU’s Emergency Medicine Simulation program.

Low-stakes practice for high-risk situations

Jessica Bailey, M.D., pediatric chief resident at OHSU Hospital believes simulation training helped her become a better communicator and team leader. “Once a month they stage mock codes in the emergency department. We learned to make the essential decisions quickly – like
Simulation is a teaching and assessment method that uses a variety of technologies and specialized instruction.

**Human patient simulators (mannequins):** Participants learn on interactive mannequins that model patient symptoms and responses to treatments. These simulators allow learners to develop technical skills ranging from starting IVs to administering anesthesia.

**Standardized patients (actors):** Working in simulated clinical environments, learners interact with live actors, who arrive with detailed histories, specific symptoms and full personalities.

**Simulated clinical environments:** Realistic settings such as an emergency room allow teams to practice communication and decision-making skills in stressful situations. Afterward, participants debrief with instructors and peers.

**Technical skills stations / high and low fidelity simulators:** Learners utilize computers or anatomical models to practice skills such as performing a root canal, laparoscopic surgery or endoscopic procedures.

**Community outreach:** OHSU helped design a simulated ambulance used to train paramedic students across the state. OHSU trains providers around the region in neonatal resuscitation and provides simulation-based courses in continuing education for anesthesiologists.

pulling together the right team and starting treatment. All the while, you are listening to what your team is telling you about how the patient is responding, and readjusting. A real emergency would have been terrifying the first time had I not gone through so many drills.”

“Simulation shows you how your brain reacts to stress,” said Mary Anna Gordon, D.N.P., R.N., assistant professor, OHSU School of Nursing, and an expert in interprofessional simulation. “Students tell me they’ve lost their ability to speak clearly or do simple math during a mock code. It’s good to know in advance what your vulnerabilities are – and have a plan to compensate.”

When every second counts, clear communication is key. For example, when a doctor leading an emergency team shouts, “Someone get me some epinephrine,” it typically results in no one fetching the life-saving drug or several people going off task to get it. “That’s why we teach best practices in communication and teamwork, such as directed and closed-loop communication,” said Guise. Residents learn to ask a specific nurse for a specific dose of epinephrine. And nurses learn to respond back confirming that they have administered the requested dose.

“This mock-up is the real deal”
Despite the fact that simulation trainings often involve advance preparation and plastic mannequins, the drills feel authentic. “We go through real scenarios in real time with real resources. It’s the same pressure, the same adrenaline rush as a real crisis,” said Bailey.

“Today’s medical residents work fewer hours than they did 20 years ago – which is a good thing – but they also have fewer opportunities to make independent medical decisions. Simulation provides a safe opportunity to practice those low-frequency but high-stakes scenarios. Everyone benefits – health care professionals, the health care system and especially patients,” said Cloutier.

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Team-based simulation training will be front and center at the OHSU/OU Collaborative Life Sciences Building (CLSB) rising on the new Schnitzer Campus at the South Waterfront. The new complex has been designed to foster collaboration among health and science professionals and includes 20,000 square feet devoted to simulation training.

Through philanthropy, OHSU can build on its excellent program and lead the next generation of simulation innovation. OHSU seeks to raise at least $2.5 million in private funding to support the following areas:

**Equipment:** The CLSB includes a flexible, two-floor facility that will serve a variety of teams and specialty needs. It will feature state-of-the-art simulation theaters and require high-performance technology capable of supporting all forms of simulation.

**People and infrastructure:** Great programs require extraordinary people. Support in this area will help OHSU retain, develop and recruit faculty with national recognition in the field. Philanthropic investment will also support faculty leaders in simulation, central services staff and resources.

To make a gift, contact Rachel Hitchcock at 503 494-4187 or hitchcor@ohsu.edu.
In early November 2012, a stroke paralyzed Emil Evans from the tip of his right toe to the tip of his right finger. Three days later, he was back raking leaves in the yard of his McMinnville, Ore., home. Many are not so lucky. Stroke is the fourth leading cause of death in the United States, and nearly a third of those who suffer strokes are left with a lasting disability. Evans attributes his own remarkable rebound to the expertise of OHSU stroke specialists – brought to his bedside by the OHSU Telemedicine Network.

“I think it was a prime mover in my recovery,” the 83-year-old retired high-tech executive said.

Evans’ story began on November 4, when he was struck by a dizzy spell, prompting family members to call 911. Paramedics took Evans to Willamette Valley Medical Center in McMinnville, where emergency room physician Siobhan Gray, M.D., immediately suspected he had suffered a stroke. Gray called OHSU to request a telemedicine consultation and wheeled a sophisticated communications cart, equipped with high-resolution cameras, to the emergency department exam room. From a computer station 38 miles away, OHSU neurologist Hormozd Bozorgchami, M.D., was able to control the cameras, see, hear and examine Evans. He asked Evans questions, had him do simple tasks to assess his cognitive ability, and asked Evans’ family about his medical history. “It was almost as if Dr. Bozorgchami was there in the room,” said Evans’ wife, Darrell. “I felt as if we were having a conversation.”

The immediate treatment telemedicine enables is critical for stroke patients because the more quickly a patient is assessed, the better chance doctors have of saving the oxygen-starved portion of the brain. Bozorgchami recommended that Evans receive the clot-busting drug t-PA, a proven stroke treatment that must be administered promptly. However, t-PA only dissolves about one third of large clots such as Evans’, and in his case more treatment was needed. Evans was ultimately taken to OHSU where the clot was removed using one of the latest stroke treatment devices, a stent retriever, available only at major research hospitals and large medical centers. Physicians at OHSU were leaders of the multi-center clinical trial that resulted in the approval of this device.

Two days after the surgery, physicians sent Evans home. “They insisted I take a walker,” Evans said. “I have no more use for a walker than a hog has for roller skates.”

Serving the region – remotely
Such success stories are being repeated across the region. OHSU stroke neurologists have helped treat more than 250 patients at community hospitals in Oregon since telestroke services began in April 2010. “I can perform the same stroke exam by way of telemedicine as I do in person,” said Helmi Lutsep, M.D., professor of neurology at the OHSU School of Medicine and associate director of OHSU’s Oregon Stroke Center. As a result, Oregonians are receiving the right treatment at the right time at rates far higher than the national average. Thirty percent of OHSU’s telemedicine patients are receiving t-PA, versus two to three percent of patients nationwide, providing a greater opportunity for stroke recovery.
The potential for telestroke care goes beyond the emergency room. With philanthropic support, telestroke services could be expanded to include stroke recovery care and prevention for at-risk patients in rural areas. By equipping new collaborating hospitals with telemedicine technology, training and support, more patients will be able to access the OHSU expertise that made such a difference for Emil Evans.

**Before and after – expanding care along the continuum**

The groundwork for expanding stroke care is already being laid by Lutsep, who along with Darren Larsen, R.N., a nurse coordinator in the stroke center, recently founded the STEP (Stroke Therapy, Education, and Prevention) program with support from donors Julie and Rocky Dixon.

“Julie and I enjoy backing innovative, hard-working people and projects,” said Rocky Dixon. “Like many physicians at OHSU, Helmi Lutsep fits the profile of a dedicated researcher and caring physician. We feel privileged to be able to support her in this endeavor.”

The STEP program is designed to improve follow-up care for patients leaving the hospital after a stroke; the goal is to expand the program to include telemedicine outreach to discharged patients across the state. It would also provide the means to monitor high-risk rural patients who have not yet had an acute stroke but exhibit warning signs such as a “mini” stroke or certain genetic markers.

“The gift from Rocky and Julie Dixon has helped us accomplish more than I even imagined,” said Lutsep. “Because of the STEP program, we have shown improved blood pressure control in our patients. The program has led us to explore ways to bring follow-up visits to those who live far from OHSU by using telemedicine.” The goal is to serve more patients, in more communities, at all points along the spectrum of stroke care. “Philanthropic support is helping us drive innovation in the delivery of stroke care,” said Lutsep.

State-of-the-art stroke care isn’t limited to the immediate crisis of an acute stroke. OHSU clinicians and scientists are working on new lines of attack against the disease and its debilitating effects through innovative research in both stroke prevention and rehabilitation. Support from the late philanthropist Fred Fields is helping to develop and commercialize non-invasive technologies to help patients overcome lasting physical impairments following a stroke.

And then there’s the best stroke treatment imaginable: total prevention of brain injury from stroke. That’s the vision of OHSU neuroscientist Mary Stenzel-Poore, Ph.D., who has developed a promising, first-of-its-kind therapy that would insulate brain cells from oxygen loss during a stroke. Stenzel-Poore, who chairs the OHSU Department of Molecular Microbiology and Immunology, says this exciting development is not for everyone – it’s specifically to prevent damage from the strokes that often occur during or after cardiovascular surgery. “As many as half of all patients who undergo a cardiovascular procedure will experience small clots in the brain that lead to real changes in cognition – or even disability,” she said. That’s a large patient community in its own right, and Stenzel-Poore believes it’s the ideal proving ground for more widely used brain-protecting drugs of the future.

The next step is to test this treatment in clinical trials, but philanthropic support is needed to reach this goal. “Accelerating discoveries into cures is the ultimate team sport,” she said. “Scientifically, we have the right players and we have the winning playbook. We now need to build a team of private supporters whose philanthropic investments can move our drug closer to achieving the goal of FDA approval and clinical use.”

**NEW HOPE FOR THE FUTURE OF STROKE CARE**

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To make a gift in support of stroke research, contact Lori Sweeney at 503 494-7455 or sweeneyl@ohsu.edu
In 1887 the first class of what was then the University of Oregon Medical School met in a two-room converted grocery store that had been moved to the edge of a cow pasture on the grounds of Good Samaritan Hospital in Northwest Portland. The school housed a lecture room on the ground floor and a dissecting room above. Cadavers were hauled up through a trapdoor in the floor with a block-and-tackle.

In the early 1920s, there were two ways to get to the Marquam Hill campus: by a narrow flight of about 500 steps or by a steep, narrow road full of tight hairpin turns. Most students depended on the two trucks the school provided for transportation. Occasionally, as an overloaded truck labored up the hill, the tailgate would fly open, sending students tumbling to the ground.

In 1892, instructors in an OHSU laboratory class in bacteriology displayed the first tuberculosis bacillus seen under a microscope in the Pacific Northwest.

Today, OHSU is home to many rare or one-of-a-kind instruments and is a leader in advanced imaging methods that have transformed the practice of medicine.

OHSU’s 125th anniversary, or quasquicentennial, marks the founding of the School of Medicine, established in 1887. What began as a two-room medical school in Northwest Portland has evolved into a multi-faceted, nationally recognized academic health center that is improving human health around the world. Philanthropy has played a central role in this rich history, and is helping to shape a bright future.

OHSU Celebrates

MILESTONES IN PHILANTHROPY

Because of philanthropy...

...Oregonians built a campus on Marquam Hill. The first 20 acres of OHSU’s Marquam Hill campus were donated in 1914 by the Oregon-Washington Railroad & Navigation Company, and a decade later the family of philanthropist and publisher Sam Jackson donated 88 additional acres.

...The first full-service children’s hospital in the Pacific Northwest was founded. Ada Doernbecher Morse and her brother Edward Doernbecher directed contributions from their father’s estate to establish Doernbecher Memorial Hospital on Marquam Hill in 1926.

...OHSU developed powerful interdisciplinary centers and institutes. During a period of rapid growth at OHSU, some of the most recognizable families in the Pacific Northwest helped bring science, education, healthcare and service together to address key health issues in centers such as the Casey Eye Institute, the Jungers Center for Neurosciences Research, the Papé Family Pediatric Research Institute, the Harold Schnitzer Diabetes Health Center, and the Vollum Institute.

...OHSU fulfilled an Oregon Opportunity. Legislators and citizens recognized OHSU’s importance by contributing more than $500 million during a 2000 era campaign to advance OHSU’s missions while driving economic vitality for the region.

...OHSU launched a new era at South Waterfront. A chain reaction of exceptional private investment – including a gift of land from Schnitzer Investment Corp., an anonymous $40 million gift for medical education, and more than $19 million in leadership gifts from Eugene and Bonnie Skourtes, A-dec and ODS Health to help construct a new dental school facility – is transforming health care education in Oregon.

...OHSU is advancing the treatment of today’s most prevalent diseases. Transformational philanthropic investments by Phil and Penny Knight created OHSU’s Knight Cancer Institute in 2008 and Knight Cardiovascular Institute in 2012. A 2011 gift from the founders of Bob’s Red Mill launched the Bob & Charlee Moore Institute for Nutrition & Wellness. Meanwhile, partnerships with corporations such as FEI and Intel are propelling innovation in research.
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If there’s one thing policy experts can agree on, it’s that the cost of U.S. health care is spiraling out of control. Today, all eyes are on Oregon as Governor John Kitzhaber leads an ambitious statewide effort to reverse this trend by forming Coordinated Care Organizations (CCOs). The aim is to slow runaway Medicaid spending without compromising on quality of care. The state estimates the new plan will save Oregon billions in Medicaid spending.

In 2012 the federal government pledged to invest $1.9 billion to help launch the program. In the words of one Washington Post commentator, the federal government is “betting big on Oregon to fix health care.” But will the bet pay off? How will we know? Who decides? To answer these questions, a neutral analysis is needed – and with the leadership of John McConnell, Ph.D., OHSU is uniquely positioned to provide it. The National Institutes of Health and philanthropists Phil and Barbara Silver each invested $2.26 million to ensure that McConnell, who is director of OHSU’s Center for Health Systems Effectiveness, has the resources to determine whether CCOs are working.

“What appeals to me about Dr. McConnell’s work is that he is applying rigorous, data-driven analysis to a subject that tends to get mired in politics,” said Phil Silver.

OHSU’s evaluation of Oregon’s CCO initiative will provide states and private sector stakeholders with crucial data they can use to combat rising health care costs. “This funding will allow us to ask the important questions,” said McConnell. “Which CCOs are high performers? How do they save money? Are people staying healthy?”

OHSU’s work has the potential to be extremely influential. By sharing lessons learned, OHSU can help keep the national conversation focused on solutions proven to benefit the nation’s health – and the nation’s budget.
Supporting teens with diabetes

An anonymous couple established a charitable gift annuity of $609,600 to benefit the Layton Aging and Alzheimer’s Disease Center. The gift will help advance the center’s effort to discover the causes of Alzheimer’s disease, find effective treatments, and improve the quality of life for people with Alzheimer’s disease and other forms of dementia.

Costco Wholesale Corporation contributed $442,500 to OHSU Doernbecher Children’s Hospital through Children’s Miracle Network Hospitals. The network, an alliance of 170 children’s hospitals throughout the U.S. and Canada, is dedicated to saving and improving the lives of children and families. Costco was one of numerous corporate partners who helped make 2012 a record-breaking year for the program.

A grant of $299,500 from The John A. Hartford Foundation renews support for OHSU’s Hartford Center for Gerontological Nursing Excellence. The grant will help OHSU improve care for older adults by building the School of Nursing’s capacity to train more faculty in gerontological nursing.

Over the past year, the Cambia Health Foundation – an organization working to expand access to, and understanding of, palliative care – has provided multiple grants to the Bridges Palliative Care program at Doernbecher. Most recently, the foundation pledged $250,000 to fund a pediatric social worker to provide mental health services for children and their families.

A gift of $249,500 from S. Scott Forrest will establish the S. Scott Forrest Fund for Social and Emotional Wellness in Diabetes at the OHSU Harold Schnitzer Diabetes Health Center. The fund will enable more patients and families to access needed support from a social worker specializing in diabetes care.

A three-year, $200,000 grant from The Collins Foundation will support the OHSU Center for Ethics in Health Care. As a condition of this grant and to meet the goals of the project, an additional $50,000 needs to be raised in private philanthropy. The grant will help the center’s experts to develop and launch a pilot project that will improve the abilities of OHSU health care professionals to communicate effectively and compassionately when caring for patients and their families.

Heather Killough contributed $200,000 to the community outreach program at OHSU Casey Eye Institute – after helping to establish the program in 2010 with a leadership gift of $250,000. Killough’s support has enabled the institute to purchase and staff a state-of-the-art mobile vision screening vehicle. In just two years, the outreach program has provided vision screening for 1,400 people, bringing the best in preventive eye health to communities, workplaces, schools and public events across the state.
The Tom Sargent Safety Center at OHSU Doernbecher Children's Hospital received a $166,000 grant from Kohl's Department Stores to support the Kohl's Car Seat Safety Outreach Program. As part of the program, families received free inspections at Doernbecher to ensure that their child's car seat is properly installed. At the event, technicians and volunteers served more than 70 families.

The Portland chapter of ARCS Foundation contributed $162,000 in scholar awards to graduate students at OHSU. The foundation's members are women who are committed to advancing science and technology in the U.S. by providing scholarships to outstanding students completing degrees in science, engineering and medical research. Since 2005 ARCS (Achievement Rewards for College Scientists) Foundation Portland chapter has provided 81 OHSU graduate students with nearly $1.26 million in sponsored scholar awards.

The OHSU Knight Cancer Institute and Susan G. Komen for the Cure share a common goal: to cure breast cancer once and for all. Over the past 10 years, Susan G. Komen for the Cure has partnered with OHSU to further that goal by funding groundbreaking initiatives in breast cancer. With their most recent Promise Grant of just over $6.4 million, Susan G. Komen for the Cure has surpassed $10 million in cumulative giving to OHSU. This Susan G. Komen Promise Grant supports a multiple-institution research project and was transferred to OHSU with the recruitment of researcher Lisa M. Coussens, Ph.D., in 2012.

“Breast cancer is one of the most complex forms of the disease. This funding is advancing our efforts to better understand the specific abnormalities that cause breast cancer and will better equip us to develop treatments and prevent recurrence,” said Coussens.

Led by Coussens, the Hildegard Lamfrom chair in basic science in the OHSU School of Medicine and associate director for basic research at the Knight Cancer Institute, this project is a collaboration with Hope Rugo, M.D., of the University of California, San Francisco and Shelley Hwang, M.D., M.P.H., of Duke University. The clinical trials portion of this research will test a novel drug therapy designed to enhance the effectiveness of chemotherapy in patients who have a particularly aggressive form of breast cancer – and one that disproportionately affects African-American women.

“Susan G. Komen for the Cure is proud to partner with OHSU in the race to cure breast cancer,” said local affiliate Chief Executive Officer Thomas Bruner. “OHSU’s outstanding faculty are engaged in leading-edge research that promises to help save lives, and we are pleased to play an important role in moving this research forward.”
The Clark Foundation awarded two three-year grants totaling $150,000 to OHSU’s Casey Eye Institute and Harold Schnitzer Diabetes Health Center. The first will benefit the retinal imaging program at Casey. The second will establish and grow a comprehensive program that helps ensure diabetic teens and their families have the support and resources to live well with diabetes as they transition to adulthood.

The Archstone Foundation provided a grant of $109,000 to support the OHSU Center for Ethics in Health Care and its work with the groundbreaking Physician Orders for Life-Sustaining Treatment (POLST) program. Since POLST was created at OHSU in 1990, it has become a national model for ensuring that the treatment preferences of people with advanced illness or frailty are honored. The grant will help the National POLST Task Force to develop policy, share lessons learned and disseminate innovations among participating programs across the U.S.

During his remarkable career, Tektronix co-founder Melvin J. (Jack) Murdock was known for making better oscilloscopes. But making better communities was just as important to him. With his death in 1971, the Pacific Northwest lost one of its most effective advocates for education, environmental stewardship and public service. Today the M.J. Murdock Charitable Trust carries on his legacy of “partnering with those who serve the common good.”

OHSU is proud to be one of those partners. In a relationship spanning nearly 40 years, the Murdock Trust has invested more than $25 million in OHSU research and educational programs, including:

- The Murdock Scholars program – providing mentorship opportunities for undergraduate students.
- Partners in Science grants – a two-summer visiting researcher program that places science teachers in OHSU laboratories.
- Equipment and instrumentation support – enabling OHSU researchers to drive discovery.
- Biomedical Engineering – through a landmark $4 million investment in what is today the OHSU Department of Biomedical Engineering.

In February OHSU hosted the Murdock Trust’s board of trustees meeting, followed by a special reception. Murdock trustees, program directors and staff gathered with OHSU colleagues to look back on their longstanding relationship, toast the $25 million milestone, and announce four new grants approved that morning. The board approved continuation of the Murdock Scholars program, two new Partners in Science Grants, and a $425,000 investment in the development of an advanced multi-spectral super-resolution microscope.

“Only a few other individuals and foundations have crossed this threshold of support for OHSU,” said OHSU President Joe Robertson, M.D., M.B.A. “We can talk about the value of such investments in dollars. But in terms of impact on our world, what this organization does is immeasurable.”
Knight gift is among largest in the nation in 2012
Phil and Penny Knight’s $125 million pledge to OHSU to establish the Knight Cardiovascular Institute was among the largest charitable contributions nationwide in 2012, according to the Chronicle of Philanthropy. The Knights’ pledge was ranked in the top 15 largest gifts, pledges, or bequests announced in 2012 – a list that places the Knights and OHSU among other extraordinary philanthropic gifts that year, such as Fred Fields’ bequest to the Oregon Community Foundation, David Geffen for scholarships to UCLA Medical School, Carl Icahn for Mt. Sinai School of Medicine, and Paul Allen for the Allen Institute for Brain Science.

OHSU celebrates 125th anniversary
To commemorate its 125th anniversary, OHSU is sponsoring an exhibition at the Oregon Historical Society, on view through July 8. The exhibition tells the multifaceted story of OHSU through photographs, artifacts and interviews with key figures in OHSU history. OHSU’s quasquicentennial celebration also includes a spring lecture series, “Imagine the Future with Us,” presented by the School of Medicine. For information on lecture topics, dates and speakers, visit ohsu.edu/125.

Fructose linked to obesity
A brain imaging study showing that consumption of fructose may lead to overeating was featured on the Today Show, CBS News, US News & World Report and in more than 200 other articles. The study, published in the journal Science Translational Medicine, led by Jonathan Purnell, M.D., associate director of the OHSU Moore Institute, demonstrates that the brain reacts differently to fructose compared with another common sweetener, glucose – and that fructose is more likely to promote weight gain.

Study offers new hope for repairing brain damage in premature infants
A study led by Stephen A. Back, M.D., Ph.D., professor of pediatrics and neurology in OHSU’s Papé Family Pediatric Research Institute, is challenging the way pediatric neurologists think about brain injury in the pre-term infant. Published in the journal Science Translational Medicine, Back’s research shows for the first time that low blood and oxygen flow to the developing brain does not, as previously thought, cause an irreversible loss of brain cells, but instead disrupts the cells’ ability to fully mature. This discovery opens up new avenues for potential therapies to promote regeneration and repair of the premature brain.

OHSU ranks among the nation’s top research institutions
OHSU ranked among the nation’s top 20 biomedical research institutions in an independent analysis conducted by The Blue Ridge Institute for Medical Research (BRIMR). In its 2012 rankings of NIH funding awards to U.S. medical schools, BRIMR placed the OHSU School of Medicine 19th in the nation for the 2012 grant year, just behind the Mayo Clinic (18th) and ahead of Mount Sinai School of Medicine and Harvard University Medical School. The institute ranked OHSU within the top ten in research disciplines such as microbiology (#2), ophthalmology (#2), otolaryngology (#2), neurosciences (#5) and emergency medicine (#6).

Correction: The print version of the Winter 2013 issue of Extra incorrectly stated that Wilbur Van Zile, D.D.S., professor emeritus of the School of Dentistry’s Department of Oral and Maxillofacial Surgery, initiated a graduate residency program and was its first director. The program’s first director was Ralph Merrill, D.D.S., M.Sc.D. We apologize for the error.
OCF President Max Williams delivers Robert G. Gootee Lecture

Oregon Community Foundation President Max Williams discussed the principles of leadership, philanthropy and community in his presentation for the School of Dentistry’s Robert G. Gootee Endowed Lectureship in Leadership and Professionalism. “Philanthropy can and does play a crucial role in developing innovative solutions for solving some of our most vexing and challenging problems,” he said. “That is the power of philanthropy – fueling the engine of innovation and change.”

New pill provides new hope for leukemia patients

A promising cancer pill could provide a treatment option for leukemia patients whose disease no longer responds to currently available drugs. Ponatinib, which was developed by ARIAD Pharmaceuticals Inc. in a research collaboration with the OHSU Knight Cancer Institute, circumvents a common gene mutation that causes resistance to currently available treatments. Results of a Phase I clinical trial to determine if the drug was safe were published in the New England Journal of Medicine. The results indicate that Ponatinib successfully bypassed this so-called gatekeeper mutation in patients with chronic myeloid leukemia (CML) and acute lymphoblastic leukemia (ALL).

New source of medicines found under the sea

OHSU researchers, in partnership with scientists from several other institutions, have published new research suggesting that sources for the next class of powerful medications may currently reside at the bottom of the ocean. In both cases, the researchers focused on ocean-based mollusks and their bacterial companions. One study revealed that a form of bacteria utilized by shipworms secretes a powerful antibiotic that may hold promise for combatting human diseases. A second study demonstrated how bacteria carried by cone snails produce a chemical that is neuroactive (meaning that it impacts the function of nerve cells) in the brain. Such chemicals have promise for treatment of pain.

SKOURTES TOWER TOPS OUT

January marked the “topping out” of the Skourtes Tower, the tallest portion of the OHSU/OUS Collaborative Life Sciences Building (CLSB) rising on Portland’s South Waterfront. The CLSB will anchor OHSU’s new Schnitzer Campus and usher in a new era of interdisciplinary learning. “Topping out” refers to the moment when a building’s framework is complete from floor to roof.

Since the groundbreaking in October 2011, the project has progressed rapidly. The result of a partnership between OHSU, Oregon State University, Portland State University and the Oregon University System, the CLSB will allow students from multiple schools and disciplines to learn side by side.

Students will start attending classes at the CLSB in the fall of 2014 - including OHSU School of Dentistry students, who will receive classroom and clinical training in the Skourtes Tower. The building will also offer highly specialized laboratory space for OHSU’s Center for Spatial Systems Biomedicine led by world renowned scientist Joe Gray, Ph.D., whose team is working to create what they call the “Google map of human cells.”
extra/focus: WHY I SUPPORT OHSU

“We donate so children can have as bright a future as our Liam.”
– Paul and Laura Jaussi

Now a healthy 8-year-old, Liam (far left) was treated at OHSU Doernbecher Children’s Hospital for brain cancer.

The iPad version of Extra has arrived! Our digital edition is filled with extra photos, videos and special features that you will want to share with friends and family. To download, go to the App Store and search for “OHSU Extra.”