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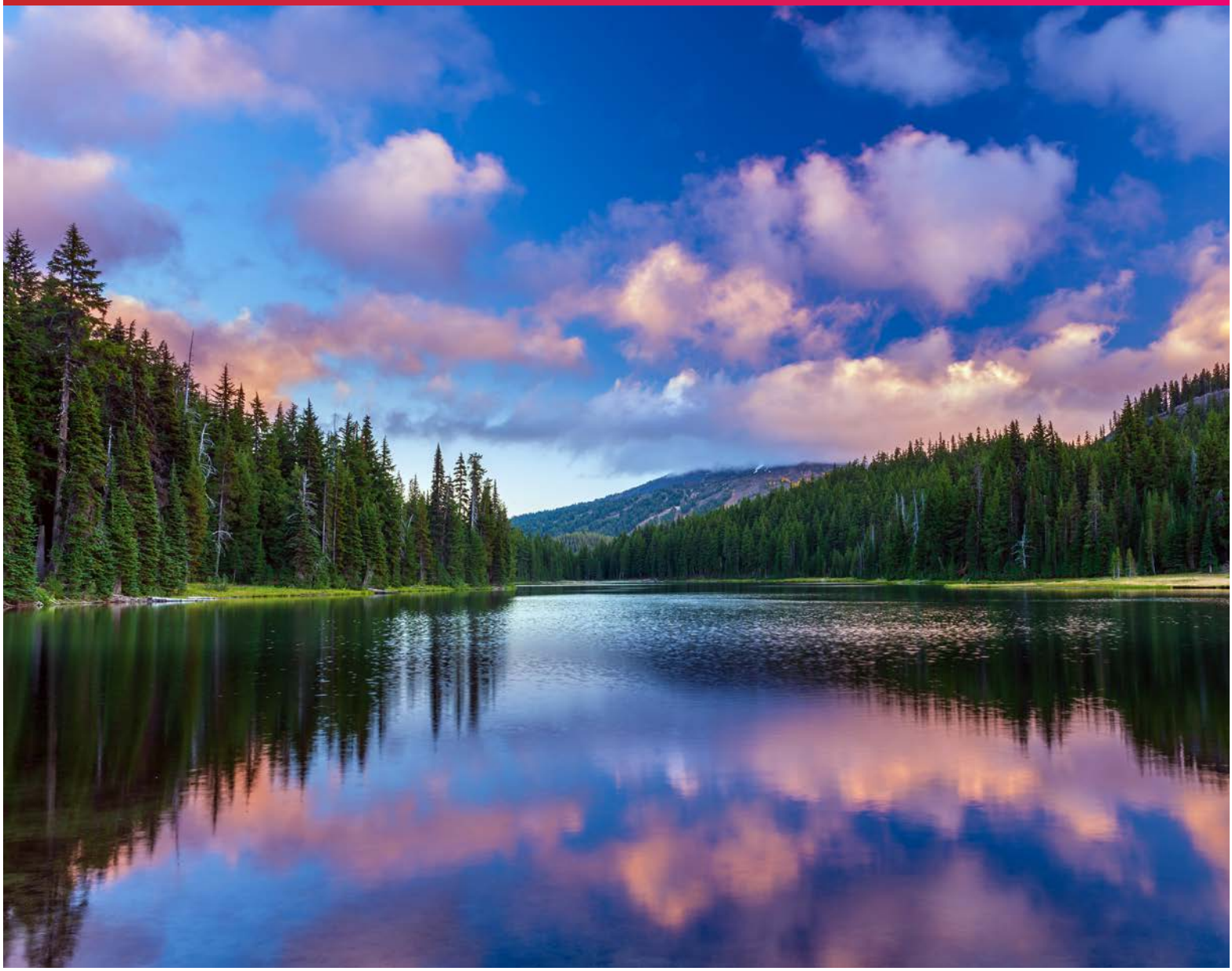
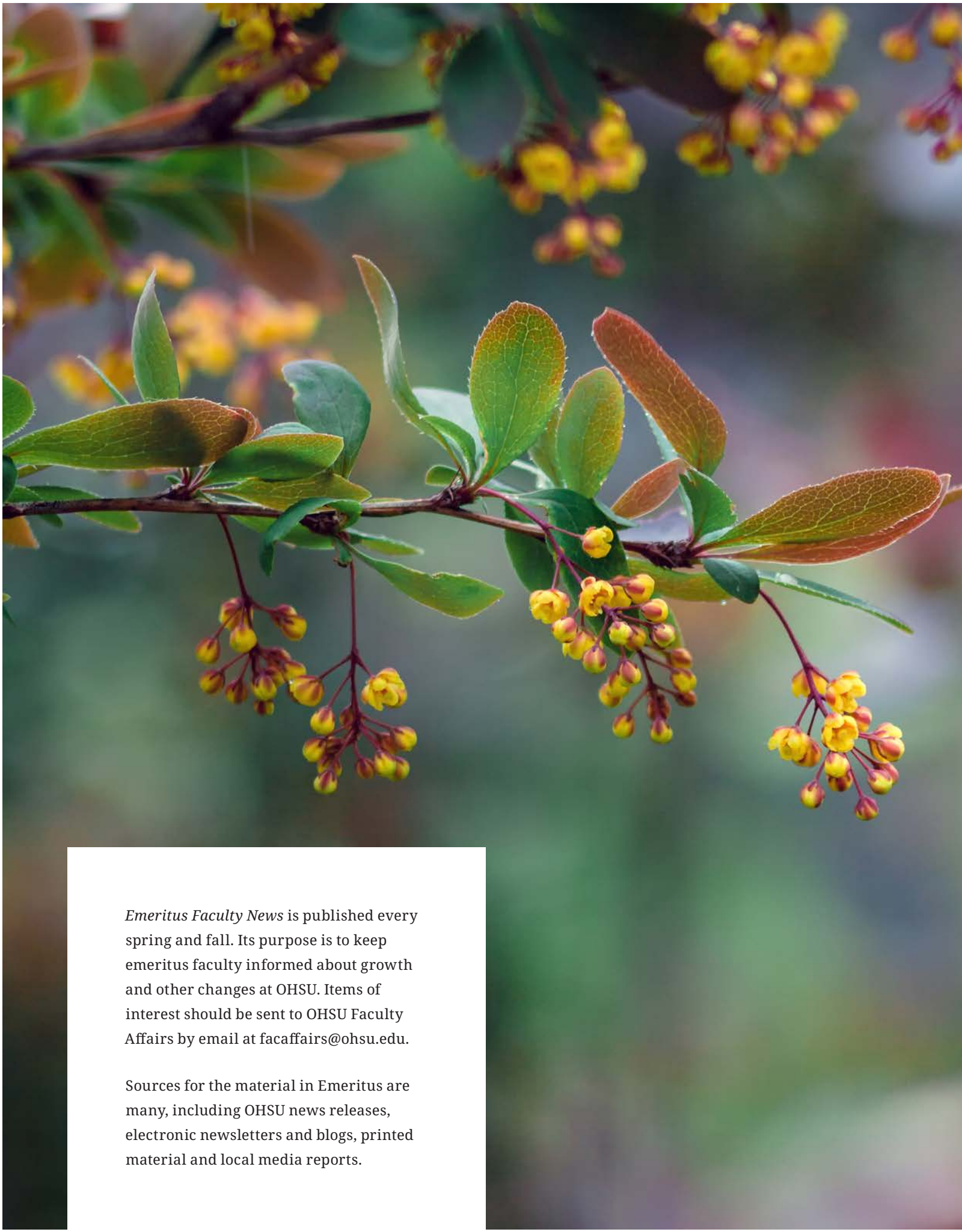
A NEWSLETTER FOR OHSU EMERITUS FACULTY





Emeritus Faculty News is published every spring and fall. Its purpose is to keep emeritus faculty informed about growth and other changes at OHSU. Items of interest should be sent to OHSU Faculty Affairs by email at facaffairs@ohsu.edu.

Sources for the material in Emeritus are many, including OHSU news releases, electronic newsletters and blogs, printed material and local media reports.

NEWS BRIEFS

OHSU is one of 16 hospitals across the United States, Japan and Australia to participate in the development of a new program by the American Society of Surgeons to assess hospitals' ability to provide the highest standards of surgical care. The process results in an ACS Quality Verification Program to be rolled out to hospitals across the country beginning later this year. The ACS pilot project covered surgical teams across OHSU, including teams involved in all phases of care from preoperative through the operating room to recovery and postoperative care. A team of ACS evaluators visited OHSU in October 2019 to assess the hospital's commitment and ability to assess surgical systems and practices. The assessment covered dozens of surgeons and surgical teams. "This speaks to our commitment and passion for quality," said **Brett Sheppard, M.D.**, professor of surgery and vice chair for clinical affairs and quality in surgery, School of Medicine. "We want to be on the vanguard for people leading quality of surgical care throughout the nation."

Emily (Yueng-hsiang) Huang, Ph.D., associate professor in the Oregon Institute of Occupational Health Sciences, was identified as the most prolific author in the safety climate field over the past 38 years. The paper by Bamel et al. appeared in Elsevier's *Accident Analysis and Prevention.* Dr. Huang is credited with having extended the applicability of the safety climate construct to multiple industry contexts and factors such as safety communication, job satisfaction and employee engagement. "I am delighted our work has been highlighted for its contributions to the field." Dr. Huang said. "This has been a truly collaborative experience for me. I thank Dr. Dov Zohar, the recognized founder of our field, and all my other research mentors, collaborators and supporters over the years for the progress we've made moving safety climate research and workplace safety forward."

Tim Boyle, CEO of Columbia Sportswear, and his wife, Mary, made a $10 million gift to OHSU in support of a new Oregon-based collaboration focused on utilizing big data to better fight cancer and other diseases. The Boyles' gift to the joint OHSU-University of Oregon Center for Biomedical Data Science will allow the center to expand its efforts to use big data to transform health care. The center's goal is to extract key knowledge from the unprecedented volumes of health care-related data being amassed today so it can be used to propel innovation and clinical practices in all areas of health care, from disease prevention and diagnosis to drug discovery to direct clinical care and hospital operations. "This is a new kind of collaboration structured around a new kind of research center for an important new era in health care," said President **Danny Jacobs, M.D., M.P.H.**. "Our partnership is exciting because it will contribute to OHSU's efforts to advance innovation, science, health and well-being through our signature, nationally distinguished programs in cancer, but also in many other disciplines. The Boyles' investment will accelerate our progress by broadening, enhancing and expanding our capacity."

The School of Medicine is phasing out the Center for Spoken Language Understanding as an administrative unit. Over the last nearly 20 years, the center has taken an interdisciplinary and translational approach in creating speech and language technology that helps individuals with communication disorders. The Center for Spoken Language Understanding, like centers in any research

organization, underwent growth and change as the science at the nexus of speech and technology evolved. Many of the center's research activities now integrate into other quantitative areas at OHSU such as computational biology and biomedical informatics. After careful consideration of the best structure needed to support the future of CSLU research, the School of Medicine has decided it will initiate a process in FY20 to transition faculty and research programs into other academic homes. Leaders have met with each CSLU faculty member to assess future steps, including transitioning as many faculty as possible to an academic department within the school. "This administrative change will provide faculty the stable, supported environment they need to maintain the vitality of their research programs," said **Daniel Marks, M.D., Ph.D.**, professor of pediatrics and senior associate dean for research, School of Medicine. "CSLU programs will be fully interwoven into other departments, setting faculty on a path to long-term success."

In response to the national opioid epidemic, OHSU has opened a new clinic that provides same-day, walk-in access to buprenorphine, a proven medication to treat opioid use disorder. The new clinic began operating Oct. 28, 2019 and is open weekdays from 4 to 7:30 p.m. in the Physicians Pavilion on Marquam Hill. The goal is to increase access to drug treatment by removing common barriers. Many treatment programs require patients to wait for an intake appointment, attend counseling sessions or commit to abstinence from all drugs and alcohol before beginning treatment. OHSU's clinic is designed as an urgent response to an epidemic that is killing an average of five Oregonians every week from overdoses. "We'll start them on buprenorphine and continue them until we can find a place that will continue their care," said **Jessica Gregg, M.D., Ph.D.**, associate professor of medicine, School of Medicine. "This is such a devastating crisis, let's just do it."

In the most recent Oregon legislative session, students and faculty from the School of Nursing worked directly with legislators to create and advocate for Senate Bill 698, which sought to "Reduce harmful and costly medication errors by requiring that pharmacies in Oregon provide prescription container labels in both English and a readable language for patients with limited English proficiency." The process took about two years and involved more than 400 students. Many testified in front of both the senate and the house committees on health. **Kristen Beiers-Jones, M.N.**, assistant professor of nursing, School of Nursing, was the lead faculty on this effort. Initially, Beiers-Jones decided to get involved because of the problems she observed with her Interprofessional Care Access Network clients. "Ninety-five percent of our clients do not speak English," she said. "Students noticed unfortunate outcomes due to their clients not taking the medications as prescribed."

About 830 house officer are planning to unionize at OHSU. The new bargaining unit, which will be represented by AFSCME, consists of medical interns, residents and fellows. OHSU is one of the last teaching hospitals on the West Coast where house officers hadn't unionized. In a statement, **Renee Edwards, M.D., M.B.A.**, vice president and chief medical officer of OHSU Health said, "We have had several opportunities to collaborate with our House Officer's Association on key issues and look forward to continuing that dialogue in collaboration with organized labor with approval from the Employee Relations Board."

Three Northwest universities and a regional health board are collectively working to increase the number of Native Americans practicing health care to decrease health disparities and improve public health. The joint project, called Reimagine Indians into Medicine, stands to substantially increase the total number of Native medical and health science students nationwide. "Tribal communities face some of the most striking health disparities in the nation, and the number of Native medical students has been flat—at best—for the past few decades. Our team sees a connection here," said **Erik Brodt, M.D.**, associate professor of family medicine, School of Medicine. "It does not have to be this way. We believe more Native physicians will lead to better care for everyone and eliminate these health disparities, especially for tribal people. We're striving to make medicine an accessible and welcoming career for more Natives." Efforts like the new partnership between the Northwest Portland Area Indian Health Board, OHSU, University of California Davis

Erik Brodt, M.D. speaks at the Indigenous Faculty Forum, November 17, 2017 at the PSU Native American Student and Community Center. (OHSU/Kristyna Wentz-Graff)

School of Medicine and WSU Health Sciences and its Elson S. Floyd College of Medicine are critical. The collaboration is supported by a nearly $1 million, five-year grant from IHS's Indians into Medicine Program, as well as more than $1 million in financial and in-kind contributions from project partners.

The Sky Lakes Collaborative Health Center – a joint effort between Sky Lakes Medical Center and OHSU to advance health care—was officially opened Dec. 12 with a ceremonial ribbon cutting and open house. Launched in spring 2016, the four-story, 100,000-square-foot, $50million project will house the OHSU Campus for Rural Health, the OHSU Cascades East Family Medicine Residency and clinic and the new Sky Lakes Primary Care Clinic, which opened for patient care in January. "It takes many individuals and institutions working together to improve the health and well-being of all Oregonians," said President **Danny Jacobs, M.D., M.P.H.**. "OHSU is proud to partner with Sky Lakes Medical Center to advance health care in Klamath Falls and beyond. This remarkable joint facility will enable us to collectively prepare OHSU students and medical residents to better meet the unique needs of rural patients throughout Oregon."

Five Oregon universities have signed new agreements to strengthen collaboration leading to new scientific discoveries. A new agreement formalizes an arrangement in which scientists at OHSU and four other institutions can share specialized research cores at OHSU, the University of Oregon, Oregon State University, Portland State University and Oregon Tech. University leaders say the arrangement will ease the ability of scientists to work together to advance scientific discovery rather than each institution attempting to

go it alone. “Oregon is a small state,” said **Peter Barr-Gillespie, Ph.D.**, executive vice president and chief research officer. “We believe the collaborative model will work better to generate new discoveries and products because it enables our scientist to draw on the combined strengths of all of our institutions.” Under the agreement, researchers at the five universities can make use of dozens of specialized laboratories and centers housed in university facilities across Oregon—including major campuses in Portland, Eugene, Corvallis and Klamath Falls. Barr-Gillespie expects it will save as much as 25 percent from the typical surcharge applied to outside researchers using the centers. “This means science is going to move just that much faster,” he said. Modern laboratory instruments and services are far too expensive and specialized for any one researcher to afford or manage on their own. By pooling their resources, university leaders expect to expand access to cutting-edge technology while also encouraging interdisciplinary collaboration between scientists across Oregon. Historically, concerns about ownership of intellectual property dampened enthusiasm for such research collaborations. The new agreements are technical but significant in clarifying shared ownership of intellectual property. “Each university always looks to protect their interest,” Barr-Gillespie said. “It’s far better to get the intellectual property cleared in advance so it doesn’t become a sticking point later.”

When M.D. program students began envisioning a collaborative space for OHSU learners to come together around justice in health care and education they naturally sought a space in the Robertson Life Sciences Building, which has been a hub for more than 3,000 OHSU, PSU and OSU health sciences students since opening in 2015. The Health Justice Co-op is a newly-established home for students from marginalized communities, designed to foster collaborations that will advance justice in health care and education. The co-op was developed by students of color and of the LGBTQ community and faculty out of a clear response to students’ experiences of racism and marginalization on campus and a need for a place designed to support community and collaboration. The space prioritizes diversity and justice related programming and includes a community-led and collectively designed mural, a health justice resources library, projector set-up to display health justice films and documentaries, and an event calendar for students to stay connected to community. The Health Justice Co-op is open to all OHSU learners. “I am really inspired by our students’ vision and hard work and proud of our collaboration that made the Health Justice Co-op possible,” said **Tracy Bumsted, M.D.,** professor of pediatrics and associate dean for undergraduate medical education, School of Medicine. “As a leader, I’ve learned that so much about creating a welcoming and inclusive climate for students is simply about listening to them. They know what they need. And while space is at a premium, with everyone leaning in this initiative was totally doable.”

On Dec. 11, 2019, Dennis Eggers became the first patient in a new clinical trial to receive a minimally invasive device that repaired his faulty heart valve—and without open-heart surgery. The compact device is inserted through a leg vein and is perfectly placed inside a failing valve by a physician using a catheter controlled from outside the patient’s body. The relatively simple procedure enabled Eggers to leave the hospital the following day. Open-heart surgery patients are typically hospitalized for at least a week. “Open-heart surgery can be grueling and even dangerous for patients with more than one severe health condition,” said one of the physicians who led Eggers’ procedure, **Firas Zahr, M.D.,** associate professor of medicine, School of Medicine, and co-director the OHSU Knight Cardiovascular Institute’s Complex Heart Valve Program. “Many older or frail patients are not good candidates for open-heart surgery,” Zahr continued. “But many of those same patients can go home the day after having a transcatheter heart valve procedure.” OHSU is the only hospital in Oregon that repairs and replaces all four heart valves with a catheter through both FDA-approved procedures and OHSU’s involvement in clinical trials.

Tribal attorney and climate activist **Tara Houska, J.D.,** broke down the urgency of restoring the health of our climate during her recent OHSU lecture *Climate, Identity and Our Health: Indigenous Lessons and Voice*

from the Front Lines to Prevent Climate Collapse. "Climate science is depressing. It's hard to hold," she said. "We want to keep pushing it out, but climate change is happening. Australia is on fire. California is on fire. The rain forests are on fire. The climate is our health. One goes with the other." Houska is Couchiching First Nation, born and raised in International Falls, Minnesota. She is the former campaign director of Honor the Earth and co-founder of Not Your Mascots, a non-profit that educates the public about the harms of stereotyping and promotes positive representation of Native Americans. She was on the frontlines of the Dakota Access Pipeline protest in North Dakota, is on the frontlines in Minnesota against Enbridge's Line 3 tar sands pipeline and has played a lead role in convincing major banks to divest from pipeline ventures. Her talk at the Knight Cancer Research Building was part of the Seminars in Native American Health hosted by the OHSU Northwest Native American Center of Excellence. A partnership between OHSU, PSU and the Northwest Portland Area Indian Health Board, the center is dedicated to expanding Native voice and presence in the health professions. Houska lauded the scholars in the audience that night who are members of the Wy'East Post-baccalaureate Pathway for changing the narrative in medicine. Created by the Northwest Native American Center of Excellence, the pathway prepares American Indian and Alaska Native students, already on a health professions path, to succeed in medical school, granting conditional acceptance at OHSU for those how complete the requirements.

More than 160 different species of nontuberculous mycobacteria, or NTM, exist naturally in the environment. While these germs are commonly found in water and soil, they traditionally have not been associated with severe illness. New research conducted at OHSU has identified a nearly 8 percent increase in the rate of diagnosed NTM lung infections since 2007. The populations most impacted are women and those 65 and older. According to lead author **Kevin Winthrop, M.D., M.P.H.**, professor public health in the School of Medicine and the OHSU-PSU School of Public Health, the increase could be related to greater environmental exposures and aging populations as well as improved clinical awareness of NTM infections. Unlike the bacterium that causes tuberculosis, NTM is not contagious; however, infection may cause serious, long-term respiratory challenges, such as a cough, shortness of breath and fatigue.

The Knight Cancer Institute is one of five sites across the country selected by GRAIL, Inc., a health care company dedicated to detecting cancer early, to join a study designed to improve early detection of cancer. The PATHFINDER study will evaluate the implementation of an investigational early detection test that has been designed to test many types of cancer through a single blood draw into clinical practice for the first time. "This is one of the most promising studies we've seen to date for a test that could detect multiple types of cancer," says **Tom Beer, M.D.**, professor of medicine, School of Medicine, deputy director of the Knight Cancer Institute, and principal investigator on the PATHFINDER study. "One of the aspects I'm most excited about is that through OHSU's participation, people in Oregon will be among the first to have the opportunity to be tested. Being at the forefront of generating new knowledge means we have the ability to bring it to our community faster." Beer will manage the OHSU study concerning solid tumors. **Uma Borate, M.D.**, assistant professor of medicine, School of Medicine, a co-principal investigator on the OHSU study, will manage the hematologic, or blood-based, cancers. GRAIL's multi-cancer early detection test is designed to identify many types of cancer through a blood draw. It looks for signals of cancer that currently may be present. If a signal that may be cancer is detected, the test is designed to identify the location in the body the signal may be coming from, for example, the lungs or the colon. This information helps clinicians determine the appropriate tests to confirm whether cancer is present. GRAIL's test is capable of detecting more than 20 types of cancer including cancer types for which no screening tests currently are available. To date, when the blood test signals the presence of cancer, it has assigned the correct organ of origin 93 percent of the time. This study is an important step on the multi-cancer early detection test's path to commercialization.

This electron microscope image shows SARS-CoV-2, orange, the virus that causes COVID-19. Researchers at OHSU are sequencing COVID-19-positive samples and comparing genomes to characterize how COVID-19 is spreading around the country and world — and how it entered and is spreading in Oregon. (Flickr/NIAID-RML) CC license

COVID-19 COVERAGE

To better understand the prevalence and transmission patterns of COVID-19 across the state—with attention to vulnerable communities, including underserved populations, Native Americans and people of color—OHSU, in collaboration with the State of Oregon and the OHSU-PSU School of Public Health, will conduct a statewide study to track, test and precisely map the virus in real time. The Key to Oregon research study, announced by Gov. Kate Brown, will enroll 100,000 randomly selected Oregonians to voluntarily provide essential data that can be used to inform decision making at the county, regional and state level. The study's goal is to help get people back to school and work faster, while effectively managing the potential for future COVID-19 outbreaks. "Thanks to the valiant efforts of all Oregonians, our state has effectively flattened the coronavirus curve," says President **Danny Jacobs, M.D., M.P.H.** "While this result is encouraging, the consequences of loosening restrictions too soon could be immense. Just as Oregon was a national leader in slowing the initial spread of the virus, we have an opportunity to show the nation a sensible, systematic approach to restoring our economy." According to **David Bangsberg, M.D., M.P.H,** dean, School of Public Health, "This study plays an important role in allowing us to determine where the virus is located across our state. Information from our community members is the key to uncovering this data," he says. While Oregon's success in limiting the spread of COVID-19 was critical, it means that very few community members have acquired immunity to the virus. By removing public health sanctions too quickly, and without proper monitoring, the state is at heightened risk of a "second wave" of infections. "By gathering reliable data, we will replace fears of COVID-19 with facts about how and where we can contain this disease," says Gov. Kate Brown. "By sampling representative groups of our population, with accurate data for those who are disproportionately at risk, we can balance our economic needs while protecting Oregonians' health and safety. Oregonians are the key to reopening our state and keeping it open." The study was developed by a team of OHSU researchers, who have pivoted efforts to address the COVID-19 pandemic. An initial investment of $6,000,000 has been committed by the State of Oregon to help fund this study. OHSU and the Governor are actively seeking additional funding through public and private partnership.

Oregon health care systems have adopted the equivalent of a 6,000-bed statewide network to manage a surge in patient volumes across the entire state. The new initiative, enabled by GE Healthcare technology in partnership with OHSU and other health systems across the state, allows health systems to see and react to hospital capacity statewide rather than attempting to manage the surge on a piecemeal hospital-by-hospital approach. The COVID Capacity Center actively monitors real-time hospital data to inform patient intake and

care. The center now includes 90% of all hospital beds statewide. Fortunately, Oregon appears to have avoided its hospitals being overwhelmed by COVID-19 patients, due to strong actions by state authorities as well as personal and economic sacrifices by Oregon citizens and businesses. However, the new initiative will have long-lasting benefits in managing new upticks in COVID-19 patients in the next year or two. In addition, health systems will be able to use the new tool over the long term to help manage resources across hospitals during annual outbreaks of seasonal influenza. Openly sharing the availability of resources in this way is new territory for health systems that have traditionally vied as competitors in the marketplace. "This tool will be useful in managing demand for hospital beds any time we have an influx of patients that exceeds one hospital system's capacity. It will help all Oregonians to avoid decisions being made in silos," said **Matthias Merkel, M.D., Ph.D.**, professor of anesthesiology and perioperative medicine, School of Medicine, and chief medical capacity officer. "Oregon is really leading the way for the United States."

Responding to a looming global shortage of ventilators, a team from OHSU has come up with a low-cost version that can be widely produced with 3D-printing technology**. Albert Chi, M.D., M.S.E.**, associate professor of surgery, School of Medicine, who previously pioneered 3D-printed prosthetics for children, is leading the effort. As COVID-19 spread inexorably across the globe, health care workers worried that they would run short of ventilators needed to keep the sickest patients alive. "The goal is to provide it for free to whoever needs it," said Chi. The design is so straightforward that it doesn't require electricity, only the type of standard oxygen tank broadly available at hospitals and clinics worldwide. Depending on the printer, a single ventilator can be manufactured within three to eight hours and made operational with the addition of low-cost springs available at any hardware store. The low-tech ventilators can be replicated anywhere in the world for less than $10 of material. "I wanted to have something we could print everywhere without the need for special equipment or custom manufacturing," Chi said.

OHSU is responding to mounting financial challenges amid the COVID-19 pandemic through a multi-pronged approach aimed at preserving our workforce while sustaining the university for the long term, and positioning for success post-recession. In March, OHSU leadership committed to maintaining a full workforce with full pay and benefits through June 30, regardless of any modification in operations resulting from the pandemic. Additionally, they established a $1 million hardship fund for employees facing extreme adversity resulting from COVID-19. And while this commitment remains, OHSU is left with financial losses that must be addressed. Facing a projected loss of revenue between $1 billion and $1.4 billion over the next 28 months, university leaders are taking swift and aggressive action to address significant budget shortfalls while avoiding widespread layoffs, including:

- Reducing services, supplies and annual capital spending
- University-wide salary reductions, effective July 1, 2020

The salary reductions include university executives, with all incentives and merit increases eliminated. Compared with financially stable years, this results in Dr. Jacobs taking a 40% reduction in compensation, for example. Reductions for other executive vice presidents range from 35% to 40%. To achieve an overall 10% reduction in salary expenses, a formula will be applied to unclassified administrative (non-represented) salaries that results in higher-paid employees taking a larger percentage reduction, and those making less than $50,000 a year taking no reduction at all

Many Asian American communities attribute happiness and longevity to strong community bonds and place high value on family and healthy living. Honoring a tradition of caring for and respecting family members, especially seniors, is at the center of their lives. OHSU & Portland State University students became concerned about the physical and mental well-being of this community-

-especially seniors--in light of the negativity and bias that many Asian community members have experienced amid COVID-19. “Seniors are vulnerable for so many reasons,” says said **Bin Chen**, OHSU M.D. Class of 2022. “Not only does their age makes them more susceptible to illness, but they have also been the targets of racism. Fear of the virus and harassment have made many stay at home. “We were informed by the Asian Health Service Center that posters and fliers of racist and xenophobic nature were posted outside of their building. I knew I needed to do something.” The ability of the young and able to give back to elders in the community has a vast cultural significance that many Asian and Pacific Islander (API) students can relate to.

After about two months of hospitalization, one of OHSU’s first patients with COVID-19 has finally been discharged. Staff lined OHSU hallways on the afternoon of May 13 to cheer Maria Nevarez, 48, of Mattawa, Washington, as she left for home. As Nevarez was wheeled from her hospital room and passed through the group, she gave a shy smile and waved. Nevarez’s long-awaited departure is largely due to a month she spent on advanced life support equipment that infused her blood with oxygen when her coronavirus-devastated lungs were unable to perform their normal tasks. The complex equipment, called Extracorporeal Membrane Oxygenation, or ECMO, uses pumps and tubes to remove blood from a patient, inject it with oxygen, and return the oxygenated blood to circulate in the body. The process gives patients time to receive other treatments that help their lungs or heart recover and hopefully be able to work on their own again. ECMO is usually the last option for the sickest of patients, for whom traditional treatments no longer work. Nevarez was too unstable to travel to OHSU from a hospital near her home in Washington state. So an OHSU team came to her, started the ECMO treatment there on March 16, and then transported her to Portland. Nevarez’s arrival came about a week after OHSU had its first presumptive patient with COVID-19 March 8. The average ECMO patient is on the life-supporting equipment for two weeks, but coronavirus can cause more severe illness and prolong ECMO treatment. Nevarez was on ECMO for 30 days. “When these patients need ECMO, they are just about as sick as someone can be without dying,” said **Heather Mayes**, an ECMO coordinator and intensive care nurse. “It took some time, but we started to see her make progress on ECMO, and her lungs were eventually able to do the work themselves. After she was moved out of the ICU, it was good to hear positive reports from other nurses who continued her care. It’s encouraging to see her make progress. It says ‘let’s keep trying,’ and gives us hope for future patients.” The week before her discharge, Nevarez was asked what she wanted to share about her experience with the coronavirus. Because she had a tube in her throat to help her breathe at the time, she wasn’t able to speak. But she typed a Spanish message into her cell phone and passed it to a language translator, who read these words: “The hardest thing has been being away from my family.”

One or two individuals did not spawn the outbreak of COVID-19 in Portland, Oregon — in fact, the state’s outbreak may have one of the most diverse origin stories discovered to date in the U.S. Researchers at the Oregon SARS-CoV-2 Genome Sequencing Center at OHSU began sequencing the novel coronavirus the week of April 13, and released the initial 16 SARS-CoV-2 genomes sequenced at OHSU to the viral sequence database GISAID on May 11. The MJ Murdock Charitable Trust provided funding to support the group’s work sequencing COVID-19-positive samples from across the state. In the weeks after the first COVID-19 case was identified in Oregon, researchers from across OHSU began discussing the importance of sequencing Oregon viral genomes and how to make that happen. By sequencing and comparing genomes, investigators can characterize how COVID-19 is spreading around the country and world — and how it entered and is spreading in Oregon. This first release more than doubles the available data on Oregon SARS-CoV-2 genomes. Before May 11, only 11 Oregon SARS-CoV-2 genomes had been sequenced. By comparing data, investigators can characterize how COVID-19 is spreading around the country and world, and how it entered and is spreading in Oregon. “These first sequences reveal that, unlike some other outbreaks in

the U.S., the introduction of the virus to the Portland metro area in Oregon is very diverse," said **Brian O'Roak, Ph.D.**, associate professor of molecular and medical genetics, School of Medicine. "The current early data suggest there were 13 introductions of SARS-CoV-2 over the past two months." Sequencing so far reveals two major branches of the novel coronavirus in Oregon. "Most of the samples are descended from the A2a lineage, which you might have heard about in the news," said O'Roak. "This is the strain that spread across Europe and New York. We have multiple independent introductions of this strain to Oregon, including one that makes up 20% of the samples." The second major branch — again, about 20% of the samples — likely traveled down I-5 from British Columbia, through Washington and then into Oregon early in the outbreak. Other branches identified in the sequencing traveled through Europe to Canada in early March and then down to Oregon right before Gov. Kate Brown issued the Stay Home, Save Lives executive order. Somewhat surprisingly to the team, there was no evidence that the first reported case in Oregon continued to spread. Either descendants of that case will be found when more samples are processed, or that the initial introduction to Oregon was successfully contained by testing, tracing, isolation and Oregon's Stay Home, Save Lives initiative.

Many people are sensibly avoiding public places during the COVID-19 pandemic. However, emergency medicine physicians at OHSU are raising another even more pressing concern: Waiting too long to see a doctor can be dangerous. Nationwide, hospital visits for strokes and heart attacks have decreased significantly, according to the American College of Emergency Physicians. OHSU treated 27 inpatients for stroke in the month of March – down from 53 during the same month a year ago. It is unlikely these medical emergencies are happening less frequently, and more likely that people are just staying home. Visits to OHSU's adult and pediatric emergency department are down about 30% from levels that would be typical for this time of year – similar to reductions reported by other first responders and health systems elsewhere in Oregon and across the country. "We really want people to come in when they need care," said **Mary Tanski, M.D., M.B.A.**, associate professor and interim chair of emergency medicine in the OHSU School of Medicine. "There is a risk of waiting. If they're having an emergency, things can get much worse before they see a physician." Tanski said OHSU emergency physicians are seeing fewer patients, but the cases tend to be more advanced and much more severe than normal.

Across Europe and the United States, otherwise healthy children are presenting with symptoms that can also be associated with Kawasaki disease and Toxic Shock Syndrome. These symptoms include high fever, rash, red eyes and red, dry lips. In addition, these children experience stomach ache, vomiting and diarrhea. "The worrisome part of this new syndrome is that they also have severe multi-organ disease, meaning they can have problems including severe inflammation of their liver or acute kidney dysfunction," said **Judy Guzman-Cottrill, D.O.**, professor of pediatrics, School of Medicine. "There are also cardiovascular implications, including low blood pressure, poor heart function and sometimes inflammation of the coronary arteries." The syndrome, dubbed Multisystem Inflammatory Syndrome in Children (MIS-C), is thought to be related to COVID-19 because it is occurring primarily in cities where the prevalence of COVID-19 is high. However, some patients with the syndrome are testing negative for COVID-19. This might be because the syndrome is thought to be an immune response after a child has recovered from COVID-19 infection. This immune response leads to significant inflammation in organ systems. "Prior to becoming sick with the syndrome, many of these children did not have an obvious illness when they were infected with the novel coronavirus. It's a really mixed picture," Guzman-Cottrill said. "I think it's too soon to know exactly what's happening in these kids – temporally, it appears to be related to recent COVID-19 infection. If this syndrome is proved to be a consequence of COVID-19, I suspect the main driver of disease is the child's robust immune response to the virus."

AWARDS AND HONORS

The National Hemophilia Foundation announced that **Nancy A. Durben, M.S.**, associate professor of pediatrics, School of Medicine, is the recipient of the 2020 Physical Therapy Excellence Fellowship. Durben practices physical therapy with the hemophilia center at OHSU. Her project is entitled, "Mindful Yoga for People with Bleeding Disorders and Chronic Pain." It will include an eight-week program with instruction focused on yoga and meditation techniques designed to reduce pain, fatigue, psychological distress, sleep disturbances and to increase functional capacity.

Miguel Marino, Ph.D., associate professor of family medicine, School of Medicine, was selected to be one of only 10 emerging leaders (from a pool of talented emerging leaders nationally) to participate in a three-year program at the National Academy of Medicine.

A project led by **Paul Tratnyek, Ph.D.**, and **Richard Johnson, Ph.D.**, professors of public health, OHSU-PSU School of Public Health, was awarded 2019 Project of the Year by the U.S. Department of Defense's Strategic Environmental Research and Development Program. The project, titled "Emerging Core Concepts for Assessment and Enhancement of Abiotic Natural Attenuation of Groundwater Contaminants," aims to enable more efficient and effective methods for remediation of contaminated groundwater. The main contaminants addressed by the project are energetic chemicals associated with explosives, like TNT, but the results are applicable to a wide range of other contaminants such at chlorinated solvents and metals, including TCE and chromate. The findings will help those responsible for management and cleanup of contaminated field sites to minimize human and ecological risks efficiently and reliably.

Steven Mansoor, M.D., Ph.D., and colleagues have identified the inner workings of the P2X7 protein receptor, which is associated with inflammation, coronary artery disease, cancer, multiple sclerosis and more. (OHSU)

A new award, the Faculty Excellence and Innovation Award, made possible by the Silver Family Innovation Fund, recognizes exceptionally creative early- and middle-stage investigators with a total of $750,000 for each researcher over three years. **Jeffrey Tyner, Ph.D.**, professor of cell developmental and cancer biology, School of Medicine, **Steven Mansoor, M.D., Ph.D.**, assistant professor of medicine, School of Medicine, and **Jamie Lo, M.D.**, assistant professor of obstetrics and gynecology, School of Medicine, are the first recipients of the new Faculty Excellence and Innovation Award. OHSU deans, directors and chairs nominated candidates from their respective schools, programs and departments, and applications were reviewed by prominent scientists from institutions around the country.

Membership in the OHSU chapter of the Gold Humanist Honor Society —an honor bestowed through peer

nominations—recognizes those who consistently demonstrate compassionate humanism in clinical care, through leadership, respect and communication. This year the society honored around 30 students, residents and staff including **Megan Furnari, M.D.**, assistant professor of pediatrics, School of Medicine, **Reem Hasan, M.D. Ph.D.**, assistant professor of pediatrics, School of Medicine, **Ben Hoffman, M.D.**, professor of pediatrics, School of Medicine, and **Tim Siegel, M.D.**, assistant professor of medicine, School of Medicine

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The Knight Cancer Institute established the Hildegard Lamfrom Research Scholar Awards to support promising early-stage cancer researchers at OHSU as they reach critical career transitions. The awards provide up to $100,000 over a two-year period. Here are this year's Lamfrom Laureates:

- **Ramon Barajas, M.D.,** assistant professor of diagnostic radiology, School of Medicine
- **Lara Davis, M.D.**, assistant professor of medicine, School of Medicine
- **Aaron Grossberg, M.D., Ph.D.**, assistant professor of radiation medicine, School of Medicine
- **Julia Maxson, Ph.D.**, assistant professor of medicine, School of Medicine
- **Xiaolin Nan, Ph.D.**, assistant professor of biomedical engineering, School of Medicine
- **Elie Traer, M.D., Ph.D.**, assistant professor of medicine, School of Medicine

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Josh Walker, M.D., Ph.D., assistant professor of radiation medicine, School of Medicine The Oncology Nursing Society Foundation chose **Jenny Firkins, Ph.D.**, assistant professor of nursing, School of Nursing, to be one of 10 competitively selected participants for the 2020 Oncology Nurse Scientist Intensive program. This program pairs 10 junior faculty early-career researchers with senior faculty research scientists for a workshop offering collaborative learning, mentorship and career development in scientific research and grant proposal writing. For the intensive program Firkins will complete an application for her chosen grant — the American Cancer Society Research Grant. Firkins's grant will investigate the role and impact of spirituality in quality of life in adults newly diagnosed with a life-limiting cancer.

Seiko Izumi, Ph.D., associate professor of nursing, School of Nursing, was awarded $500,000 in funding for her illness conversations study. Izumi's study will explore health equity through serious illness conversations. In a collaboration with Providence Palliative Care team and Providence Medical Group, this study will evaluate the quality and impact of serious illness conversations (SIC) led by nurses (compared to those facilitated by other health professionals) and will explore patients' experiences of SIC through the lens of socio/cultural diversity to promote equity in serious illness care. It will take a deep dive into SIC experiences by nurses and other health care providers.

The Medical Research Foundation recognized **Jonathan R. Lindner, M.D.**, professor of medicine, School of Medicine, with the 2019 Mentor Award. The Mentor Award is presented to an Oregonian who has provided outstanding mentorship and leadership in the support of health research, education or the advancement of health care. Lindner has been highly influential in the field of cardiovascular medicine — not only because of his own research but also because of his legacy of excellent teaching and mentorship. As a mentor, he is generous with his time and expertise, going so far as, for example, joining his mentees at all hours to guide mechanistic studies of vascular physiology in multi-day circadian and sleep protocols. Lindner's guidance and unflinching support have allowed his trainees to succeed as award-winning clinicians and researchers.

Zachary Working, M.D., assistant professor of orthopaedics and rehabilitation, School of Medicine, has received the 2019 AO North America Kathryn Cramer Career Development Award. The award fosters orthopedic residents, trauma fellows and faculty who are interested in educational and research endeavors in orthopedics, preferably orthopedic trauma. Working was also selected for the Orthopaedic Research Society's Clinician Scholar Career Development Program.

Peter Barr-Gillespie, Ph.D., chief research officer and executive vice president. (OHSU/Kristyna Wentz-Graff)

Two faculty research projects have been named recipients of the 2020 Biomedical Innovation Program awards. The awards program is a collaboration of the Oregon Clinical and Translational Research Institute, OHSU Technology Transfer and OHSU Collaborations and Entrepreneurship. The awards provide funds, project management and mentorship to facilitate the development of innovative technologies at OHSU and accelerate their translation to the marketplace. This track of funding supports translational projects that develop new biomedical devices, diagnostics and software.

- **David Sheridan, M.D.**, assistant professor of emergency medicine, School of Medicine, **and Jessica Grant, M.S.** — *Koala: Optimizing baby feeding position*

- **Matthew Hansen, M.D.**, associate professor of emergency medicine, School of Medicine — *Ultrasound-guided vascular access assistance device*

The Medical Research Foundation Committee also recognized **Peter G. Barr-Gillespie, Ph.D.**, executive vice president and chief research officer, with the 2019 Discovery Award. The Discovery Award honors an Oregon investigator who has made significant, original contributions to health-related research while working in Oregon. Specifically, Barr-Gillespie and his team study the molecular basis of mechanoelectrical transduction of the hair cell. Highlights of their pioneering work include defining the molecular underpinnings of hair cell adaptation and bundle structure through characterization of several myosin proteins; deploying novel mass spectrometry techniques to study hair cell components; elucidating the molecular mechanisms underlying calcium homeostasis in the hair bundle; and discovery of the proteins required for hair bundle assembly and their sequential expression during bundle morphogenesis.

RECENT APPOINTMENTS

The Center for Diversity and Inclusion has announced **Kathleen Carlson, M.S., Ph.D.**, associate professor of public health, OHSU-PSU School of Public Health, as the new chairperson of the OHSU Gun Violence as a Public Health Issue Advisory Committee. Carlson is also a core investigator in the Veterans Health Administration's Center to Improve Veteran Involvement in Care. Carlson brings invaluable insights and leadership to OHSU's efforts through her expertise as an injury epidemiologist and as someone raised in a firearm-owning family in rural Oregon. "I'm deeply invested in this initiative and to building on Dr. Brian Gibbs' great vision and leadership," said Carlson. "The Gun Violence as a Public Health Issue Advisory Committee represents the interdisciplinary, upstream and health equity focus that is emblematic of public health. Our efforts are on the cutting edge as both health care and research environments are beginning to embrace gun violence prevention as being in 'our lane.' I look forward to working with the advisory committee and our institutions toward a safer Oregon for all."

Eneida Nemecek, M.D., M.S., M.B.A., professor of pediatrics, School of Medicine, is the Knight Cancer Institute's new medical director for clinical research. "I am very honored and excited to work in collaboration with all my colleagues at the Knight Cancer Institute," Nemecek said. "We have great potential for growth to offer our patients access to cutting-edge, high-quality clinical trials. I look forward to working with all members of the team to continue to strive toward our goal of ending cancer as we know it." Nemecek specializes in bone marrow transplantation and cellular therapies for blood cancers. She's director of the Pediatric Bone Marrow Transplantation Program at Doernbecher Children's Hospital and co-director of the Northwest Marrow Transplant Program at the Center for Hematological Malignancies in the Knight Cancer Institute. Nemecek is the Nancy Jaggar Blount Professor in Pediatric Oncology.

David Jacoby, M.D., professor and chair of medicine, will be stepping in as the interim director of the Knight Cardiovascular Institute. Jacoby will bring his significant experience in faculty leadership to and his knowledge. "The accomplishments and contributions of the Knight Cardiovascular Institute on behalf of our patients and across missions are significant," said Jacoby. "I am honored to lead and to partner with institute members in support of their work."

Ann Tseng, M.D., associate professor of family medicine, School of Medicine, is now associate chief medical officer at OHSU Tuality Healthcare. In this role, Tseng will partner with Alan Lines, director of operations, to provide leadership to the medical group and support Tuality providers and ambulatory staff. Tseng will retain her OHSU faculty appointment.

Johanna Warren, M.D., associate professor of family medicine, School of Medicine, and division head, Center for Women's Health Primary Care, will take on a new role as associate director of the OHSU Center for Women's Health.

Jacqueline F. Webb, D.N.P., has been appointed as the new director for the Family Nurse Practitioner Program. Webb has been involved in nursing education for more than 15 years, is a practicing family nurse practitioner with more than 25 years of experience in primary health care and is currently working in one of the Multnomah County primary care clinics. Webb's research focus is in community nursing, innovative delivery health care models and effects of group care for chronic pain and health inequities in vulnerable populations. Webb is the current Oregon chapter president of the National Association of Hispanic Nurses. She serves on various community boards such as the Oregon Health Authority's Cultural Competence Continuing Education Review Committee, IRCO Nursing Re-entry program and NAHN's Policy and Advocacy Board. As an immigrant from her native country of Chile, Webb has been committed to issues of inclusivity and equity throughout her nursing career.

Timothy Marshall has been named OHSU's chief integrity officer. Marshall was appointed interim chief integrity officer in July 2016 and has served as the director of audit and advisory services since 2014. In his new role, Marshall will continue to lead OHSU's core integrity office and audit and advisory services teams and facilitate collaboration to assess risk with the other integrity and compliance functions across the organization.

OHSU has announced **Christopher Sim, D.Sc.**, as director of the Physician Assistant Program. Sim was the associate program director and assistant professor in the Department of Physician Assistant Studies at Massachusetts General Hospital Institute of Health Professions. He received his doctor of science from the Massachusetts College of Pharmacy and Health Sciences, master of physician assistant studies from the University of Nebraska College of Medicine, bachelor of health science from Drexel University and bachelor of science in organizational behavior from the University of San Francisco.

Jonathan Brody, Ph.D., was named vice chair for research in the department of surgery April 20, 2020. Brody most recently served as director of surgical research and co-director of the Jefferson Pancreatic, Biliary and Related Cancer Center in Philadelphia. He is also a member of the Kimmel Cancer Center (with a leadership role in GI program) and a professor in the departments of surgery and pathology. Brody received his Ph.D. from The Johns Hopkins University School of Medicine. He specialized in studying the molecular aspects of cancer and cancer genetics. He patented, with Scott Kern, novel buffers for DNA identification (DNA electrophoresis buffer), that have changed the format of this molecular biology technique used to detect DNA. Brody was elected chair of the Cancer Research Program, Department of Defense Council and serves on many international study sections, including as the chair of the Tumor Biology and Genomics study section for the American Cancer Society and a permanent member of an NCI study section panel.

Catherine Hough, M.D., will become the new division chief of pulmonary and critical care in July. A distinguished physician scientist, Hough comes to OHSU from the University of Washington School of Medicine, where she is a professor of medicine and medical director of the MICU at Harborview Medical Center. Hough grew up in the Bay Area, and was an undergraduate at Berkeley, after which she attended medical school at the University of California, San Francisco. After completing residency at the University of Pennsylvania, she returned west in 1999 as a fellow in pulmonary and critical care at the University of Washington. She undertook research training in critical care outcomes and received a master's degree in epidemiology.

Derick Du Vivier, M.D., M.B.A., assistant professor of anesthesiology and perioperative medicine, School of Medicine, has been appointed interim vice president for equity and inclusion. He will report to Elena Andresen, Ph.D., executive vice president and provost. Du Vivier was also recently elected co-chair of the Oregon Health Policy Board's Health Equity Committee. During his two-year term, he will be working to promote health equity across the state.

The American Heart Association welcomed a new fellow into its cohort, **MinKyoung Song, Ph.D.**, assistant professor in nursing, School of Nursing. Song is a behavioral scientist and epidemiologist. Her developing program of research centers on changing health behaviors as a strategy for the prevention of obesity, diabetes and cardiovascular diseases. In addition, Song's mentorship of over 10 graduate Ph.D. students has contributed toward the Council on Cardiovascular Stroke Nursing's goal of encouraging and assisting early-career investigators to establish successful careers in science.

RESEARCH REPORTS

A so-called "tooth-on-a-chip" could one day enable more personalized dentistry, giving dentists the ability to identify dental filling materials that work better and last longer based on a patient's own teeth and oral microbiome. The miniaturized tooth system is a thin slice of a human molar placed between transparent rubber slides that are etched with tiny channels through which fluids flow. The research device mimics a real tooth with a cavity, which allows fluids and bacteria to move between the cavity opening and the inner tooth. Scientists use a microscope to observe the tooth as it interacts with materials and bacteria. While other mini-organs such as livers and lungs have been placed on chips like this for research purposes, this is the first time an organ-on-a-chip system has been created for dental research, reports a paper published in the Royal Society of Chemistry journal *Lab on a Chip*. "Today's cavity fillings don't work as well as they should. They last for five, seven years on average, and then they break off," said the paper's corresponding author, **Luiz E. Bertassoni, D.D.S., Ph.D.**, associate professor of restorative dentistry, School of Dentistry. "They don't work because we haven't been able to figure out what's happening at the interface of the tooth and the filling," Bertassoni continued. "This device can help address that by giving us a close-up view of what's happening there in real-time. Years from now, dentists could extract a tooth from a patient, load it into this device, observe how a dental filling material interacts with the tooth and pick a material that's best for that particular patient."

For cancers that can't currently be detected early, a new discovery suggests there may be a large window of time in which to look for smoldering cancer cells and eliminate them before they become life-threatening. Errors in DNA that trigger the start of some of these deadly cancers can arise a decade or more before tumors appear, according to an international team of scientists. The findings, published in the journal *Nature*, fit with what is known about the few kinds of cancer in which researchers have worked out the timing of progression. In colon cancer, for instance, pre-cancerous growths called polyps form 10 to 15 years before giving rise to malignant tumors. "Our new data show that the timing can be similar in cancers without detectable premalignant conditions, such as ovarian cancer, raising hope that these tumors also can be identified in pre-cancerous stages," said **Paul Spellman, Ph.D.,** professor of medicine, School of Medicine, and one of the senior authors of the new study. "The challenge that remains is developing tests for these early signatures of cancer that are reliable enough to use as screening tests," said Spellman, who is co-director of CEDAR, the Cancer Early Detection Advanced Research Center in the Knight Cancer Institute.

OHSU is among 46 trauma centers across the country to participate in a new clinical trial that aims to improve outcomes for people with severe traumatic brain injuries. Traumatic brain injuries involve sudden damage to the brain, for example during a motor vehicle crash or falling from a tree or building. Traumatic brain injuries affect an estimated 3.5 million Americans annually, with 300,000 who end up in the hospital. The clinical trial will compare two strategies for monitoring and treating patients with brain injuries in intensive care units. The five-year study began enrolling OHSU patients in January. The study is known as Brain Oxygen Optimization in Severe TBI Phase 3, or BOOST 3. Notably, because these patients are typically not in a position to provide written consent, the study is being conducted under an exception from informed consent allowed by the U.S. Food and Drug Administration. BOOST 3 will compare clinical outcomes among patients grouped into two treatment protocols: 1) Treatment goals based on monitoring of intracranial pressure alone and 2) treatment goals based on monitoring both intracranial pressure and oxygen in brain tissue. Both protocols are considered acceptable, but the new study will determine whether one or the other should become the preferred standard of care across the medical profession.

Five collaborative research teams exploring topics such as craniofacial bone repair, risk factors for childhood obesity and the impact of dietary protein on the gut microbiome have received piloting grants to get their projects off the ground. Part of the OHSU-UO Collaborative Seed Grant funding program, the awards were announced by OHSU Research and Innovation. The program creates new collaborations between researchers at OHSU and the University of Oregon.

- *Dietary protein impact on colonic microbiome signature and alteration of colonocyte inflammation-associated DNA methylation profile* – **Anna Hunter, M.D.**, assistant professor of pediatrics, School of Medicine, and Brendan Bohannan, University of Oregon.

- *Early environmental factors and cellular mechanisms underlying increased risk for childhood obesity* – **Joel Nigg, Ph.D., M.S.W.**, professor of psychiatry, School of Medicine, and Carrie McCurdy, University of Oregon.

- *Determining the driving forces of protein aggregation with native ion mobility-mass spectrometry* – **Kirsten Lampi, Ph.D.**, professor of integrative biosciences, School of Dentistry, and James Prell, University of Oregon.

- *Microengineering vascularized and innervated bone-like scaffolds as an alternative to autologous bone grafts* – **Luiz E. Bertassoni, D.D.S., Ph.D.**, associate professor of restorative dentistry, School of Dentistry, and Marian Hettiaratchi, University of Oregon.

- *Using the epigenetic clock to test gene x environmental interactions in the context of brain aging and neurodegenerative diseases* – **Lucia Carbone, Ph.D.**, associate professor of medicine, School of Medicine, and Kirstin Sterner, University of Oregon.

Generic versions of expensive drugs are supposed to constrain prices paid by patients. However, new research focused on one commonly prescribed drug to treat multiple sclerosis reveals that the introduction of a generic version had little effect on escalating prices within this costly medication class. Further, researchers found that the manufacturer of the preexisting branded product blunted the impact of the new generic by shifting patients to a slightly different, but not interchangeable, version before the generic's launch. The study is published in the journal *Neurology*, the medical journal of the American Academy of Neurology.

"As a physician concerned about the cost to patients, it's disappointing that having a generic version of one of the most prescribed MS drugs does not have an effect on slowing the increasing price of MS drugs," said co-author **Dennis Bourdette, M.D.**, professor emeritus of neurology in the School of Medicine and founding director of the OHSU Multiple Sclerosis Center.

Experts in the Japanese phenomena of hikikomori say the condition of extreme social isolation is more widespread than previously acknowledged, and it deserves a clear and consistent definition to improve treatment across the globe. In an article published in the February issue of the journal *World Psychiatry*, experts cite a lack of broad clinical understanding of the condition. Although hikikomori is typically associated with young adults in Japan, the researchers say many of the same criteria of extended social isolation apply to people around the world, including among older adults and stay-at-home parents. A simplified and clear definition will improve the recognition and subsequent treatment for people who suffer from the condition, the authors write. Senior author **Alan Teo, M.D.**, associate professor of psychiatry, School of Medicine, and a researcher and psychiatrist in the VA Portland Health Care System, said the medical profession hasn't traditionally recognized social isolation as a health issue. "There is a cultural issue within the house of medicine whereby we don't pay attention to it and don't think it is in our lane to deal with," Teo said. "These are shared problems, whether it's an 80-year-old Portlander who's a Meals On Wheels recipient living by herself or an 18-year-old with hikikomori in Japan." Ironically, modern tools to improve communication may be having the opposite effect. "With advances in digital and communications technologies that provide alternatives to in-person social interaction, hikikomori may become an increasingly relevant concern," the authors write.

OHSU is launching the Research Data Network project, which will improve and extend critical computing and network infrastructure in ways that are specifically designed to support the research community. The three-year capital investment was developed in response to faculty need and has been informed by faculty input. "The Research Data Network is a welcome and necessary investment in our research infrastructure," said **Peter Barr-Gillespie, Ph.D.**, executive vice president and chief research officer. "It aligns with OHSU 2025's objective to develop an integrated research informatics infrastructure, and will advance science through these institutional investments that stabilize and enhance our research capacity."

Thousands of rare diseases cumulatively affect millions of people across the globe, yet because each case is so rare doctors struggle to accurately diagnose and effectively treat individual patients. In a commentary published this month in the journal *Nature Reviews Drug Discovery*, an international team of data scientists and rare disease specialists write that they've come up with a way to characterize and define diseases so that they eventually would be sharable among physicians across the globe. For years, patient advocacy groups and regulators have often cited an estimate that there are roughly 7,000 "rare" diseases, however the new research suggests this number may be undercounting by thousands. The scientists call for a coordinated effort to better define rare diseases so that clinicians can effectively diagnose and treat patients. "Most of these diseases they'll never see again in their lifetime," said lead author **Melissa Haendel, Ph.D.,** associate professor of medical informatics and clinical epidemiology. "If we can't count them, that means we also can't define them, and therefore we can't adequately diagnose them."

Convocation

In line with other schools in the state, OHSU has made the incredibly difficult decision that all OHSU 2020 Convocation and graduation-related events will not be held in-person this year. There will be an opportunity for the OHSU community to watch an online ceremony. Details on that are still forthcoming.

The Emeritus Faculty Luncheon is tentatively scheduled for Nov. 4, 2020. We will be monitoring how COVID-19 may affect OHSU operations as well as considering the health and safety of our community before making a final decision.

IN MEMORIUM

Mary Ann Ademino Lockwood
Jan 16, 1930 – May 22, 2020

A proud graduate of the University of Washington, Mary Ann's early career was spent at Whitman College in Walla Walla, Wash. and with the American Red Cross in Washington, D.C., Japan and Korea. For over 60 years she served Oregon Health & Science University, leading the Publications, University Relations and Community Relations offices as well as providing executive support to the deans of the medical school and, following OHSU's establishment as a university in 1974, its presidents. Threaded through every role was a fundamental commitment to better connecting OHSU with the broader community. Her work with the Marquam Hill Steering Committee and its art sub-committee brought her particular joy and fulfillment. She was appointed to OHSU's emeritus faculty in 2005 and was founding editor of its newsletter.

A Rotarian for many years, Mary Ann was the first woman president of SW Portland Rotary and co-founded the Achievement Rewards for College Scientists (ARCS) Foundation Oregon Chapter. She was a dog lover, a talented needle pointer, weaver and cook, read widely, and actively supported local artists, sculptors and ceramicists.

Memorial donations may be made to support the work of the all-volunteer Marquam Hill Steering Committee at the OHSU Foundation, 1121 SW Salmon Street #100, Portland, OR 97205.

John W. Kendall, Jr., M.D., F '62, dean emeritus and professor emeritus of medicine, died Dec. 11, 2019, after an extended illness. He was 90. Dr. Kendall built a remarkable career in academic medicine and leaves behind a distinguished and lasting legacy at OHSU and the VA Portland Health Care System. He was a renowned endocrinologist and researcher, a strong and effective leader in both the school and the VA, recipient of numerous honors and accolades and a beloved husband and father. Dr. Kendall was appointed the school's eighth dean in 1983 and served until 1992, during which time he made significant and lasting contributions. Among his key accomplishments was catalyzing curricular reform in the M.D. program, funded by the Robert Wood Johnson Foundation and launched in 1994. Taking a cutting-edge approach, educators placed students in clinical settings from day one—instead of after two years of basic science classes—to better support learning objectives and workforce needs. That, among other changes, helped the school earn national recognition for curricular innovation. He will be remembered fondly by many in the OHSU and VA communities who had the pleasure of working with and learning from him. The family kindly requests that donations in Dr. Kendall's memory be made to the John A. Benson Jr. M.D. and John W. Kendall Jr. M.D. Visiting Professorship administered by The Foundation for Medical Excellence. The professorship, which concentrates on medical education, was created in 1996 to honor these internist-educators for their exceptional contributions to the profession, to the school as deans and to the foundation, of which Dr. Kendall was a founding member and past president.

Access to OHSU Library Resources and Services For You

OHSU Library welcomes OHSU emeritus faculty to enjoy library resources and services. Your OHSU network account* enables you to access electronic journals, databases and ebooks on and off campus, as well as request items at no charge through our Get It For Me service when the needed article or book is not available online at OHSU. Contact us at **library@ohsu.libanswers.com** or 503-494-3460, if you have questions.

*If you do not have an OHSU network account, please contact your department head to obtain access.

School of Medicine Emerita Emerti Faculty Steering Committee

The steering committee is making strides in establishing a formal structure within the School of Medicine framework. We have enjoyed wide support from Dean Sharon Anderson, associate deans name Zaman and Leslie Kahl, assistant deans name Carlson and name Cedfeldt, as well as senior associate dean Nicole Lockart. Our goal is to facilitate the transition of senior faculty as they begin to contemplate retirement and acquaint them with the benefits of being an emeritus faculty. We believe that there is potential to develop and maintain a positive relationship between emeritus faculty and the School of Medicine and for the faculty to enjoy collegial and professional opportunities to interact with each other and the school. Stay tuned for more information regarding the School of Medicine website with a major link to emeritus affairs.

NEW EMERITUS, 2020

Phyllis L. Beemsterboer, Ed.D.
PROFESSOR EMERITUS, MEDICINE

Norman A. Cohen, M.D.
PROFESSOR EMERITUS, ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Michael V. Danilchik, Ph.D.
PROFESSOR EMERITUS, INTEGRATIVE BIOMEDICAL AND DIAGNOSTIC SCIENCES

Martha Driessnack, Ph.D.
ASSOCIATE PROFESSOR EMERITUS, NURSING

Michael A. Forte, Ph.D.
PROFESSOR EMERITUS, VOLLUM INSTITUTE

Thomas J. Hilton, D.M.D.
PROFESSOR EMERITUS, RESTORATIVE DENTISTRY

Steven W. Johnson, M.D., Ph.D.
PROFESSOR EMERITUS, NEUROLOGY

Sherry L. Lemon, M.S.
ASSOCIATE PROFESSOR EMERITUS, PEDIATRIC DENTISTRY

Shaun F. Morrison, Ph.D.
PROFESSOR EMERITUS, NEUROLOGICAL SCIENCES INSTITUTE

Dennis N. Bourdette, M.D.
PROFESSOR EMERITUS, NEUROLOGY

John Gordon Nutt, M.D.
PROFESSOR EMERITUS, NEUROLOGY

TRANSITIONS

Brian Gibbs, Ph.D., M.P.A., vice president for equity and inclusion and chief diversity officer, resigned from the Center of Diversity and Inclusion Dec. 31, 2019. During the last three years, Gibbs leveraged his position and expertise to expand diversity and inclusion efforts across OHSU. He guided the implementation of the unconscious bias campus-wide initiative, which has resulted in 9,660 staff, faculty and students trained so far, and launched the inclusion ambassador program. Gibbs also developed and led the Gun Violence as a Public Health Issue Advisory Committee, in which he engaged the community on the important topic of gun violence prevention through a series of forums, educational events and lectures by nationally renowned experts. By integrating diversity efforts throughout many OHSU programs, Gibbs strengthened OHSU's efforts to be a great organization that is diverse in ideas and people.

EMERITUS SPOTLIGHT

David C. Dawson, Ph.D.

PROFESSOR EMERITUS, DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY, SCHOOL OF MEDICINE, 2014

Since retiring as chair of physiology and pharmacology, Dawson has been following the prescription for the witness protection program, moving from place to place as often as possible. He lives in Maine for 5-to-6 months each year, pursuing music and teaching while his wife Kay tends a large garden by the sea, plays bridge and convenes a local book club. Their home there is on Mount Desert Island, the location of Acadia National Park. Since retiring, Dawson has also become a teacher of economics. The result has been two courses, taught in 2018 and 2019, under the title "A Brief History of the Dismal Science" in the Acadia Senior College, an institution on Mount Desert Island. Dawson has found another community in Lahaina, Maui, where he also pursues musical performance as well as water aerobics while working on an economics course on the origins of inequality.

Dorothy W. Hagan, Ph.D.

ASSOCIATE PROFESSOR EMERITUS, DEPARTMENT OF MEDICINE, SCHOOL OF MEDICINE, 2007

After designing and incorporating both a master of nutrition and a master of clinical nutrition with the dietetic internship program, Hagan retired in January 2007. She and her husband then traveled for four years before returning to Portland, building a retirement home in Vancouver, Wash., and reduced travel to 3-to-4 months per year. In retirement Hagan has finally been able to pursue her passion for textiles and traditional rug hooking. In 2015, she became a certified McGowen Rug Hooking teacher and has pursued this textile art form, publishing some short articles in trade magazines. Having a passion for both work and pleasure and achieving those goals brings success and contentment and satisfaction.

Mary Jo Rice, M.D.

EMERITUS PROFESSOR, DEPARTMENT OF PEDIATRICS, SCHOOL OF MEDICINE, 2012

Rice was a member of the division of pediatric cardiology for 30 years, focusing on patient care, echocardiography and cardiac catheterization. She taught and mentored fellows, college and high school students in apprenticeship programs and high school and middle school students through Saturday Academy. She did clinical research with 53 publications, 77 abstracts and national presentations and one book chapter. One of the most rewarding parts of her career was patient-child advocacy. From 1999 to 2005, Rice joined the board of the Make A Wish Foundation, helping expand the organization's criteria for children with heart problems. In 2013 she started a nonprofit, Merry Heart Children's Camp, a summer camp for children with heart problems. The first camp was in August 2015. Fellows, residents and college students have all volunteered to be involved, and this year the camp will start a counselor-in-training program. Retirement allows her to travel and spend more time with family and friends.

Jerris R. Hedges, M.D.

PROFESSOR EMERITUS, DEPARTMENT OF EMERGENCY MEDICINE, SCHOOL OF MEDICINE 2008

Since leaving OHSU, Hedges has served as the dean of the John A. Burns School of Medicine at the University of Hawaii Manoa. He also served as the president and board chair for the University Health Partners and oversaw the UH Cancer Center from 2014 to 2016 during a leadership transition. Most recently, he served on the administrative board of the AAMC Council of Deans. Hedges continues to serve as a research mentor and principle investigator on a National Institute Minority Health and Health Disparities sponsored clinical translational research award for UH Manoa. Health disparities is a topic of great interest in the multi-cultural, multi-ethnic island state. Educationally, the institute seeks to push the boundaries of inter-professional education, having just completed their second successful eight-year Liaison Committee on Medical Education re-accreditation.

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SPRING
2020

Emeritus

A NEWSLETTER FOR OHSU EMERITUS FACULTY