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OHSU

Emeritus

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

The Oregon Legislature passed HB 5202, legislation that included a $45 million prioritized investment in OHSU's innovative 30-30-30 plan to help address the state's urgent health care workforce needs. The funding—the largest appropriation made to an individual higher education institution this legislative session—will allow OHSU to significantly increase the number of graduates from several key health care professions programs, adding thousands of new, high-quality clinicians to the state's hospitals and clinics over the next decade. OHSU 30-30-30 will increase the number of graduates from clinical programs by 30% and increase all OHSU learner diversity to 30% by the year 2030. "OHSU 30-30-30 is necessary to train more health care professionals to meet the health care needs of Oregon's evolving population," says **Danny Jacobs, M.D., M.P.H.,** president of OHSU. "I believe investing now in an impactful and effective long-term solution is needed if we are to address the state's current and future health care needs most effectively. Funding *OHSU's 30-30-30* will allow us to train health care providers who better represent the racial and ethnic diversity of Oregonians, and who are prepared to provide high-quality, culturally competent care. I would also like to thank School of Nursing Dean Susan Bakewell-Sachs, Senior Associate Dean for Education George Mejicano, and Interim Executive Vice President and Provost David Robinson, who were principal architects for this program." OHSU developed its *30-30-30* plan to help the state address the current health care workforce shortage and health care inequities that were exacerbated by COVID-19 and its disproportionate impact on underserved communities. Without action, the state projects that by 2030, Oregon is expected to need 40% more physician assistants, 12% more registered nurses, and 60% more nurse practitioners—even as the Oregon Health Authority's 2021 Health Care Workforce Needs Assessment Report calls for increased workforce diversity and geographic distribution to more effectively address the community health care needs. The $45 million investment will enable OHSU to expand culturally competent health care access in communities across the state. It includes two parts:

- An increase of $20 million per year in OHSU's direct state appropriation. This ongoing investment will allow OHSU to expand class sizes across its schools, graduating up to 2,000 additional health care professionals—nurses, clinical psychologists, physician assistants, nutritionists, public health leaders, and others—within the decade. It will also increase diversity through learner pathway programs such as the Oregon Consortium of Nursing Education, Area Health Education Centers, HealthESteps, Wy'east and OnTrack OHSU!
- A $25 million one-time investment, which the OHSU Foundation will seek to match with philanthropy, creating a $50 million OHSU Opportunity Fund. This fund will provide tuition assistance, loan repayment and student resources to help recruit and retain more diverse classes of learners at OHSU.

OHSU will develop a plan to coordinate available behavioral health services statewide, thanks to $1.5 million in funding passed by the Oregon Legislature. With this funding, OHSU will develop a proposal and plan for the creation of a coordination center for acute and residential behavioral health services across Oregon. The center will be supported by a dashboard tool that will provide real-time data on facility capacity and available placement options for behavioral health patients, both children and adults. OHSU will work

with the Oregon Health Authority (OHA), the Oregon State Hospital, community residential behavioral health providers, hospitals and health systems to develop a plan for the center and dashboard. "This will require unprecedented collaboration and a willingness to think differently in order to better connect Oregon's fragmented and under-resourced behavioral health services, improve access for Oregonians, and support providers at every level of care," says **Matthias Merkel, Ph.D., M.D.,** professor of anesthesiology and perioperative medicine, School of Medicine. "We are excited to partner with community behavioral health providers and the OHA to develop a proposal that will help improve our collective understanding of Oregon's behavioral health utilization and maximize the impact of our infrastructure for Oregonians." Partners will work to develop a plan to present to the Oregon Legislature during the 2023 session; the goal will be to secure funding to put the plan into action.

OHSU is partnering with a local nonprofit to break the cycle of violence affecting many people of color in Portland. Victims of community violence treated at OHSU Hospital will get a visit from a rapid-response counselor within four hours of arriving. On-call counselors with Healing Hurt People work to prevent retribution by engaging directly with victims to support them and their families. The program serves people of color between 10 and 35 years of age. "We know the need is there," said Roy Moore, co-director of the Community Care team operated by the nonprofit Portland Opportunities Industrialization Center (POIC). OHSU joins Legacy Emanuel Medical Center, where the program first started in Portland, in partnering with the program. By expanding to OHSU, Healing Hurt People now has direct access to both of the state's Level 1 trauma centers—as Portland is in the grip of a sharp increase in gun violence. In January 2019, before the pandemic, 32 shootings were recorded in Portland; in January of this year, the city recorded 107 shootings. "I think this program has the potential to make a significant impact in preventing more violence," said **Martin Schreiber, M.D.,** professor of surgery, School of Medicine. "The patients we won't impact are the dead ones, and that's a significant portion of these victims. Hopefully, with this program, there will be substantially fewer deaths."

OHSU is part of a collaborative international effort to eliminate the human immunodeficiency virus, or HIV, in infected youth. The Pediatric Adolescent Virus Elimination Collaboratory will receive a total of up to $27.6 million over five years, the National Institutes of Health announced. The group plans to develop and test new early-intervention strategies that are designed to provide children remission and a cure from HIV without relying on the antiretroviral therapies that are currently used to treat both children and adults living with HIV. The potential effectiveness of such strategies will initially be evaluated using the monkey form of HIV in nonhuman primate newborns at OHSU's Oregon National Primate Research Center and at Emory University's Yerkes National Primate Research Center. The collaboration will also focus on developing procedures, tools and techniques, such as imaging, that are specifically designed for infants, children and adolescents living with HIV. OHSU's contributions to the project will be led by **Nancy Haigwood, Ph.D.,** director and professor at the Oregon National Primate Research Center, along with **Ann J. Hessell, Ph.D.,** research associate professor at the Oregon National Primate Center, and **Jeremy Smedley, D.V.M., M.S.,** professor and head of infectious disease resources at the Oregon National Primate Research Center.

Effective Jan. 19, 2022, the clinical laboratories at OHSU transitioned from the use of the MDRD (Modification of Diet in Renal Disease) equation for estimation of glomerular filtration rate (eGFR), to the Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) Creatinine equation. The new protocol excludes race as a variable. Instead, the CKD-EPI eGFR results are based on serum creatinine, age and sex, and is normalized to 1.73 m^2 body surface area." Dating back to the origins of modern medicine, doctors have used calculations called clinical algorithms to determine the course of diagnosis and treatment for patients with a host of maladies, including chronic kidney disease (CKD). While the algorithms have changed as medical knowledge has advanced over time, in many cases, one thing has stayed the same: many of these calculations factor in the race of the patient. The practice has historically been understood to be appropriately responding to the

different prevalence or severity of disease in various populations. But of late it has come under scrutiny for, instead, potentially limiting diagnosis and treatment for members of communities who need it most. The change in the algorithm for kidney disease, championed by the American Society of Nephrology and the National Kidney Foundation, is the first such departure that OHSU and hospitals across the country are making in the treatment of myriad diseases. It is also just one of many steps necessary to achieve health equity and to eliminate structural racism in medicine, and in medical education.

"Unpacking the practices that embody structural racism and are embedded in the very foundations of medicine is a massive and multi-layered task and is just one aspect of eradicating health disparities that play out along racial lines and cause untold, unacceptable suffering," said **Derick DuVivier, M.D., M.B.A.,** OHSU senior vice president for diversity, equity and inclusion. "OHSU's decision to remove race as a factor in determining diagnosis and treatment for kidney disease is one of many we will make based on the science and on our values."

A federal spending bill, signed into law by President Joe Biden, includes funding for OHSU's effort to increase the number of American Indian and Alaska Native people working in health care professions. The Future Leaders in Indigenous Health, or FLIGHT, project received $800,000 in the federal budget. Through OHSU's Northwest Native American Center of Excellence (NNACoE), the FLIGHT project will both grow the health care workforce and expand quality service to American Indian and Alaska Native patients—building on the center's successful programming. "NNACoE already is nurturing the next generation of Indigenous health leaders," says **Erik Brodt, M.D.,** associate professor of family medicine, School of Medicine and assistant dean of Native American health at OHSU. "We inspire, equip and support future healers as they ascend through medical school and beyond, and the FLIGHT project will accelerate this important work. We thank Senator Merkley, Senator Wyden, Congressman Blumenauer and their respective teams for advocating for this funding, and for their support of Indigenous communities." All 43 federally recognized tribes of the Pacific Northwest supported the funding request.

The Knight Cancer Institute's Community Partnership Program has awarded $249,797 to 12 community-led projects to address cancer-related needs across the state. This round of funding supports nine new projects and continues funding for three others. Organizations receiving funding in this grant cycle include (* denotes project continuations):

- **2Live2Cure** - Bridging the Gap: Helping Rural Oregon's Cancer Patients Identify and Fulfill Non-Medical Resource Needs
- **Access Care Anywhere** - Cancer Community Assessment & Research Equity (CARE) Project
- **Healthy Active Oregon Coalition*** - Prevent Diet-related Cancer in Oregon by Piloting Voluntary Sugary Drinks Policy
- **Healthy Community Collective** - Preventing Lung Cancer and Other Respiratory Illnesses through Air Quality Monitoring
- **Hood River County Prevention Department** - The Hood River County Prevention Department Teen Tobacco Cessation and Education Project
- **Mid-Columbia Medical Center** - Proactive Prevention Program: Expanding Access to Cancer Screenings and Treatment for Underserved Communities
- **Native American Youth and Family Center*** - Cancer Prevention through Relating Cultural Teachings to the Four Foundations
- **Pacific Integrative Oncology -** The Feasibility of a Remote Lymphedema Prevention Program for Newly Diagnosed Breast Cancer Patients Undergoing Surgery
- **South Coast Rural Health Integrated Project Team -** Coos Fights Cancer
- **Tobacco-Free Coalition of Oregon -** Explore Building a Grassroots, Equity-Centered Coalition for a Commercial Tobacco-Free Future in Oregon
- **Umatilla County Public Health* -** Umatilla County Breast & Cervical Cancer Screening Capacity Building Initiative
- **Virginia Garcia Memorial Health Center & Foundation -** Preventing HPV-Caused Cancers Through Dentist-Administered HPV Vaccines

Since its inception in 2015, Project Nurture, an innovative program model integrating maternity care, substance use treatment, and social service coordination in the Portland-Metro area, has helped to increase prenatal care visits for pregnant individuals, while also lowering rates of child maltreatment and foster care placement. Given its initial success, the Oregon Health Authority Health Systems Division has begun efforts to expand the Project Nurture model to rural and underserved communities in Deschutes, Jackson, Lincoln, Malheur and Umatilla counties. Funded by a $3 million research grant from the Eunice Kennedy Shriver National Institute of Child Health and Human Development (1 RO1 HD105348-01A1), part of the National Institutes of Health, researchers from OHSU will assess the implementation of the expansion program, now called Nurture Oregon. "Over the past two decades, we have seen an alarming increase in the prevalence of maternal substance use disorders during pregnancy in the United States," says the study's principal investigator **Deborah Cohen, Ph.D.**, professor of family medicine, School of Medicine. "While many programs have been developed to help limit the occurrence of maternal substance use—and the risk for adverse outcomes such as preterm labor, preeclampsia or low birth weight—very few have shown the success and longevity of Nurture Oregon. Through our analysis, we hope to identify and establish evidence that will allow the replication of the Nurture Oregon model in other states across the U.S., once again showcasing Oregon as a leader in innovative health care delivery."

Transgender and nonbinary Oregonians have better access to gender-affirming health care at OHSU and beyond, thanks to ongoing improvements and growth at the OHSU Transgender Health Program. OHSU's recent efforts include adding more staff members, creating a virtual consultation service for patients outside the Portland area, and helping health care workers statewide better serve transgender and gender-diverse patients. The OHSU Transgender Health Program launched in 2015 to ensure patients receive respectful and quality health care, regardless of their gender identity. Caring for more than 6,000 adult and youth transgender patients, OHSU has one of the largest and most comprehensive transgender health programs in the U.S. To help lead this growth, **Aedan Coffey, M.P.H.,** became the program's first-ever director in December 2021. As the program's administrator, he provides strategic and business leadership to ensure the program has the resources to continue providing gender-affirming care far into the future. Coffey is focused on helping underserved communities receive the health care they need. To better serve patients outside the Portland area, the program also started the Transgender Health Virtual Consult Clinic in July 2021. The virtual service connects patients who are referred by their local primary care provider with an OHSU provider for a consultation about hormone therapy and other gender care. This new service offers technical expertise to local primary care providers who need support in helping their gender-diverse patients overcome specific gender-related health challenges.

Northwest worker safety and health is getting a $6.9 million boost over the next five years thanks to a grant from the National Institute for Occupational Safety and Health, also known as NIOSH, and the COVID-19 American Rescue Plan. The grant will support continued efforts of the Oregon Healthy Workforce Center, which serves as a regional resource for employers and workers in Oregon, Washington, Alaska, Idaho and beyond. The center is co-led by **Leslie Hammer, Ph.D.,** and **Ryan Olson, Ph.D.,** both professors in the Oregon Institute of Occupational Health Sciences, and involves OHSU, Portland State University, University of Washington and University of Florida. The Oregon Healthy Workforce Center is one of 10 NIOSH Centers of Excellence for Total Worker Health® in the U.S. The center conducts intervention-focused research, outreach, education and evaluation activities to improve worker safety, health and well-being, including preventing work-related injuries and illnesses. It was established in 2011, and is based out of the Oregon Institute of Occupational Health Sciences at OHSU. The new funding will expand the center's research and interventions related to:

- Health care worker burnout and well-being
- Firefighter work schedules, cardiovascular health and safety
- Chronic pain among home care workers

In an OHSU study, researchers found that changes in the gut microbiome clearly affected behavioral and cognitive changes measured in mice. (Getty Images)

RESEARCH

New research in mice for the first time draws a definitive causal connection between changes in the gut microbiome to behavioral and cognitive changes in an animal model of Alzheimer's disease. The study, published in the journal Frontiers in Behavioral Neuroscience, suggests new avenues involving the use of probiotics to treat and potentially forestall symptoms of dementia associated with neurodegenerative diseases including Alzheimer's. The research was led by scientists at OHSU. "We found that modulating the gut microbiome by fecal implants in germ-free mice induces behavioral and cognitive changes in an Alzheimer's disease model," said senior author **Jacob Raber, Ph.D.,** professor of behavioral neuroscience, School of Medicine. "To the best of my knowledge, no one has shown that before in an Alzheimer's disease model." The work follows on a previous OHSU study in mice, published last year, that revealed a correlation between the composition of the gut microbiome and the behavioral and cognitive performance of mice carrying genes associated with Alzheimer's. In the new study, researchers carefully manipulated the digestive tract of mice using fecal implants. They found changes in measures of behavior and cognition among three different genotypes and between males and females. Two of the genotypes involved mirror those associated with a predisposition to Alzheimer's in people. Researchers found that changes in the gut microbiome clearly affected behavioral and cognitive changes measured in mice. The study suggests possible avenues for forestalling dementia through targeted use of probiotics or fecal transplants, which already have been used to manipulate the gut microbiome in people. However, Raber said much more research needs to be conducted to ascertain the mechanism of these behavioral and cognitive effects, because the relationship between these effects and gut microbiome is influenced by genotype and sex. "People can buy probiotics over the counter, but we want to make sure the right treatment is being used for each patient, and that it actually benefits them," Raber said. "The gut microbiome is a complex environment. If you change one element, you'll also change other elements, so you want to make sure to select a probiotic that promotes brain health and brain function for each patient, while limiting any negative side effects."

New laboratory research from OHSU suggests long-lasting immunity against variants of COVID-19 following natural infection and vaccination. At 11 months, the study is the longest period measured to date following infection. (Getty Images)

The blood of people infected by SARS-CoV-2 shows telltale signals of immunity against new variants of the novel coronavirus as long as 11 months following infection, according to a new laboratory study from OHSU. The study published on the preprint server *MedRxiv.* "We think these results give us real reason for optimism," said senior author **Bill Messer, M.D., Ph.D.,** assistant professor of molecular microbiology and immunology, School of Medicine. "The current variants of concern are not likely to truly escape the immune system of people who have recovered from infection." Messer emphasized that vaccination is the best protection against reinfection, and that the vaccine is also the best protection for people who have not had COVID-19 to avoid getting infected or becoming seriously ill or dying from it. The new findings involved testing of blood drawn from 24 people who had been infected with the SARS-CoV-2 virus, with severity ranging from asymptomatic to hospitalization at OHSU Hospital. Researchers found that asymptomatic cases and some of the people with mild symptoms did not always have SARS-CoV-2-specific antibodies in their blood serum. However, researchers were able to detect patrolling immune cells—called memory B-cells—that are programed to produce SARS-CoV-2 antibodies in the blood of all the people tested. They discovered that these memory B cells not only appeared to react to the original wild-type SARS-Co-V-2 virus, but they also recognized so-called variants of concern. The findings suggest that immune protection may endure long term, potentially forestalling the need for vaccine booster shots. At more than 11 months, the study is the longest post-infection period measured to date. However, researchers say it's not possible to definitively say whether the B cell response that researchers discovered in blood serum would correlate to an actual effective immune response in people exposed to the virus.

New research reveals compounds in hemp demonstrate an ability to prevent the virus that causes COVID-19 from entering human cells. The study, published in the *Journal of Natural Products,* was a collaboration between scientists at OHSU and Oregon State University. The laboratory study used chemical screening techniques to discover that a pair of distinct cannabinoid acids in hemp—known as cannabigerolic acid, or CBGA, and cannabidiolic acid, or CBDA—bind to the SARS-CoV-2 spike protein, blocking a critical step in the process the virus uses to infect people.

Anupriya Agarwal, Ph.D., assistant professor of medicine (hematology and medical oncology) in the OHSU School of Medicine and researcher with the OHSU Knight Cancer Institute, is working to find new treatment options for those living with acute myeloid leukemia. (OHSU/Kristyna Wentz-Graff)

"This is a lab study, so it hasn't been tested clinically," said senior author **Fikadu Tafesse, Ph.D.,** assistant professor of molecular microbiology and immunology, School of Medicine. "However, the study's implication is that some hemp-based consumer products have the potential to prevent as well as treat infection from the novel coronavirus."

Researchers analyzed acute myeloid leukemia (AML) samples from nearly 400 adult patients and found that more than 13% of them had inherited genes that likely predisposed them to the cancer. The mutations occurred across the entire age spectrum of subjects in the study group, called Beat AML 1.0. The findings support the need for routine screening for inherited predisposition genes in all patients with acute myeloid leukemia, said senior author **Anupriya Agarwal, Ph.D.,** associate professor of medicine, School of Medicine. The researchers published their results in the journal *Blood*. For people with AML—and their families—the diagnosis of an inherited predisposition has significant implications. For instance, it's important to know if family members have inherited a susceptibility gene before they serve as donors for bone marrow or stem cell transplant. It's also important for genetic counseling of family members and making decisions about getting on a schedule of testing for signs of leukemia developing. "If you know that a patient has an inherited predisposition, we can monitor them, and maybe catch leukemia early," Agarwal said. It's also possible, she said, that some of the mutations her team found could identify patients who would benefit from certain targeted therapy drugs. Agarwal is an associate professor in the OHSU School of Medicine, Division of Oncological Sciences. Her lab collaborated on the research with others at OHSU, the University of Colorado, the University of Texas Southwestern Medical Center

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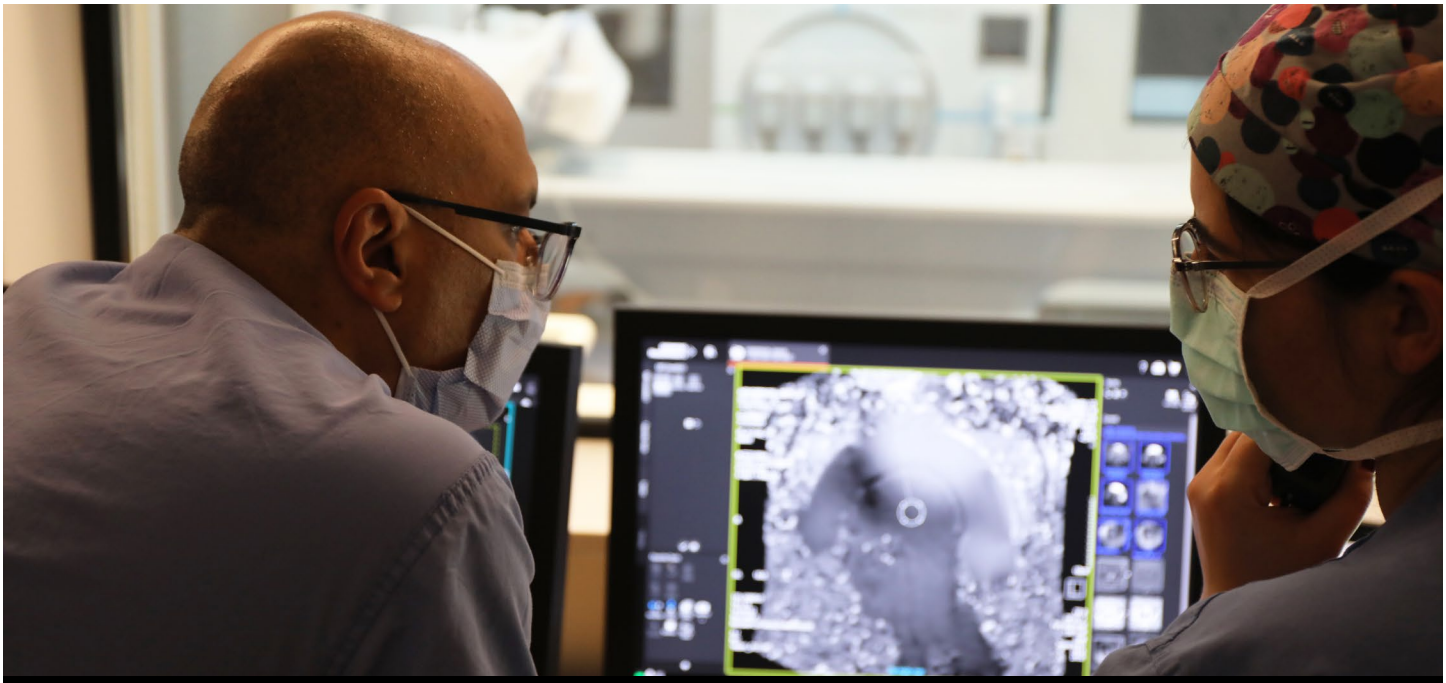
OHSU researchers are joining a nationwide study working to identify the most effective dose of a medication that provides life-saving treatment for seizures in children. Seizures are one of the most common reasons that people call 9-1-1 for children—and

A study on the most effective dose of medication as a life-saving treatment for children who have seizures is being studied by OHSU researchers. (Getty Images)

can be life-threatening if they don't stop on their own or are stopped by medication. A common treatment used by paramedics, midazolam, has proved effective in quickly stopping a seizure. However, delays in administering midazolam can occur when paramedics must perform multi-step calculations to determine the dose or administer the drug intravenously to a child. As a result, approximately half of children treated receive the wrong dose, usually an insufficient dose. "When paramedics are in the heat of the moment trying to stabilize a seizing child, they don't have time to do complex calculations to determine the dose," says **Matt Hansen, M.D., M.C.R.,** associate professor of emergency medicine, School of Medicine. "Children end up receiving too low of a dose, and nearly one-third of those who are underdosed are still seizing when they arrive at the emergency department. We're excited to join this study working to improve these outcomes by equipping paramedics to quickly give the right anti-seizure medication dose."

OHSU researchers are developing an entirely new approach to scientific imaging to learn how the seemingly random movements of tiny molecules are actually a well-orchestrated operation at the center of how cells work. The W. M. Keck Foundation has awarded research duo **Catherine Galbraith, Ph.D.,** and **James Galbraith, Ph.D.,** both associate professors in biomedical engineering, School of Medicine, $1 million over three years to develop a one-of-a-kind imaging and computational system. Their system will seek to decode molecular aggregates—collections of proteins or ribonucleic acid that frequently rearrange inside cells and are involved in cellular information processing. The W. M. Keck Foundation's research grants support scientific projects that are distinctive and novel in their approach, question the prevailing paradigm, or have the potential to break open new territory in their field. Despite more than 100 years of study, the dynamic organization of the insides of cells remains a mystery. About 10 years ago, scientists discovered that proteins inside cells organize without membranes, the thin layers that usually encase cellular organelles. Instead, these proteins organize by forming phase separations, similar to oil droplets in water. Many researchers are now convinced that phase separations are part of a more general class of molecular aggregates that are key to cellular processes, such as reading DNA and making proteins, as well as immune responses and



Drs. Ahmed Raslan, M.D., and Maryam Shahin, M.D., talk about the procedure. Patient Jean Henderson undergoes high-frequency ultrasound brain surgery led by OHSU neurosurgeon Ahmed Raslan and his team on Wednesday, March 30, 2022. Jean Henderson is the first patient to undergo this treatment in Oregon. She has had a tremor for four years, which limited her abilities to care for herself, and this surgery corrected that tremor in her right hand/arm in just a few hours with no incision. (OHSU/Christine Torres Hicks)

even the reproduction of SARS-CoV-2 virus. Improperly functioning phase separations may lead to protein accumulations that underlie diseases such as Lou Gehrig's, Alzheimer's, Parkinson's and some cancers. Until now, the study of molecular aggregates has largely been based on first-hand observations: Conventional imaging technologies can't zoom in close enough to decipher individual molecules within aggregates, let alone track their rapid movements within cells. The Galbraiths will use the W. M. Keck Foundation grant to develop a new type of microscope that can accurately measure the individual proteins and molecules as they assemble into groups inside a cell. Their system will also use deep learning to evaluate the resulting images and precisely track the biomolecular steps that proteins take to form aggregates and pinpoint how those steps are tied to specific cellular functions.

The human brain is in a constant state of motion, responding to external stimuli as well as those produced internally, such as the heart sending blood pulsing through it. Recording the brain's activity with high resolution is fundamental to advancing our understanding of brain circuitry, function and disease or injury. A team of researchers at OHSU and UC San Diego has demonstrated the ability of a new sensor array to record electrical signals directly from the surface of the human brain in previously unseen detail. Currently, grids of electrocorticography (ECoG) sensors most commonly used in surgeries have between 16 and 64 sensors. Data published in *Science Translational Medicine* Jan. 19, 2022, demonstrated the reliability of grids with 1,024 or 2,048 sensors. "A higher resolution improves our ability to conduct surgery with greater precision," said **Ahmed Raslan, M.D.,** associate professor of neurological surgery, School of Medicine. "The goal is always to remove as much of a tumor or lesion as possible, while not damaging nearby tissue."

A growing body of research suggests Black youth in the U.S. experience higher rates of poverty, illness and discrimination than their white counterparts. COVID-19 exposures throughout the pandemic, along

with limited support services to address and mitigate poverty and structural inequities, increase the risks of health inequities amongst communities of color. A new research collaboration among OHSU-PSU School of Public Health, University of California at San Francisco and the community-based youth program MyPath will observe how guaranteed income and financial capability training can impact the financial, mental and physical well-being of low-income Black youth, ages 18 to 25, as they transition to independence. "This study will provide the critical data needed to understand the potential of guaranteed income for Black youth, and how to maximize its impact on health at a time when multiple municipalities, counties and states are considering legislation to support such programs," says **Marguerita Lightfoot, Ph.D.,** professor of public health, OHSU-PSU School of Public Health, and one of the project's three principal investigators.

In the years following the launch of the NIH Human Microbiome Project in 2007, scientists have uncovered all kinds of evidence linking gut microbes to our immune system and the origins of inflammatory immune conditions such as multiple sclerosis and rheumatoid arthritis. About 70% of the human immune system is found in our gastrointestinal tract, where it interacts with the gut microbiome: a complex ecosystem of microorganisms comprising trillions of bacteria, viruses, fungi, yeast and their genetic material. And yet researchers are just starting to learn how the gut microbiome works. **Phoebe Lin, M.D., Ph.D.,** an associate professor of ophthalmology, School of Medicine and a physician-scientist at the OHSU Casey Eye Institute, is part of a select group of researchers working to broaden our understanding in the realm of eye health. Chronic noninfectious uveitis is a form of eye inflammation that, if left untreated, leads to vision loss and even blindness. Current treatments, Lin explains, use broad anti-inflammatory medications such as corticosteroids that can cause serious side effects such as cataracts and glaucoma. Lin says that limited safe and effective treatments for patients with this form of eye inflammation drives her research. "I'm asking the questions my patients inspire me to ask, designing experiments to answer those questions and testing them in my lab," she said. Research from Lin's lab has firmly established a gut-eye association in animal models. Studies in mice have demonstrated that severity of inflammation from uveitis is partially related to a reduction in regulatory T cells—called Tregs—in the gut. Normally, Tregs help prevent inflammation. Lin and colleagues found that certain interventions, such as giving mice a dose of organic compounds known as short-chain fatty acids or a dose of oral antibiotics, could enhance the number of Tregs in the gut as well as alter intestinal permeability and structure. All of these changes were also associated with decreased eye inflammation. With those promising results from her preliminary data, Lin secured her first R01 grant in August 2021 from the National Eye Institute, which is part of the National Institutes of Health. The five-year grant for a total of up to $2.45 million will enable her to investigate how intestinal microbes and the immune system can be rebalanced to better treat uveitis.

A sleep scientist at OHSU is working with researchers across the country to develop a new device to enhance deep sleep. Funded with $4.3 million from the U.S. Department of Defense, the three-year project will involve refinement of a head-worn device to enhance the natural system of brain cleansing that occurs during sleep. Known as the glymphatic system, this brain-wide network clears metabolic proteins during sleep that would otherwise build up in the brain. The goal is to eventually help service members and veterans overcome acute sleep deprivation and chronic sleep restriction, according to an announcement by the University of Washington and the University of North Carolina. The project could have widespread application and benefits, said the OHSU project collaborator **Miranda Lim, M.D., Ph.D.,** associate professor of neurology, School of Medicine. She is also an affiliate scientist with the Oregon Institute for Occupational Health Sciences at OHSU. "It could benefit anyone who has a condition where they aren't getting enough deep sleep," Lim said. "There are a lot of clinical and performance-based applications for this, and a lot of potential." For example, she said patients with Alzheimer's disease may benefit from the device, if it proves to be effective.

AWARDS AND HONORS

The All-Hill Student Council awarded three faculty in the 17th Annual FLAME Awards. This award recognizes faculty members who are role models in the academic community, and whose attitude and actions produce superior patient care and teaching environments. This is presented to faculty who are passionate about student learning and strive to improve outcomes by conducting scholarly, innovative activities. This years winners were **Magdalena Muchlinski, Ph.D.,** associate professor, Office of Academic Affairs, **Gordon Noel M.D.,** professor emeritus of medicine, School of Medicine, and **Teresa Turnbull, D.N.P.,** assistant professor of nursing, School of Nursing.

Beth Habecker, Ph.D., professor of chemical physiology and biochemistry, OHSU School of Medicine, has received one of the top honors from the American Association for the Advancement of Science (AAAS). On Jan. 26, she was named an AAAS Fellow, an honor bestowed upon AAAS members by their peers. Each year, the association elects members whose "efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished." AAAS recognized Habecker in the pharmaceutical sciences section "for distinguished contributions elucidating the roles of the sympathetic nervous system in cardiovascular disease."

The American Institute for Medical and Biological Engineering has announced the election of **Sandra Rugonyi, Ph.D.,** professor of biomedical engineering, School of Medicine, to its 2022 Class of the AIMBE College of Fellows. Rugonyi was nominated, reviewed and elected by peers and members of the AIMBE College of Fellows for outstanding contributions to the biomechanics of cardiovascular development and advocating for inclusion and diversity in biomedical engineering.

Three projects have been named recipients of 2022 Biomedical Innovation Program funding in the Device, Diagnostic, and Software track:

- **Yali Jia, Ph.D.,** associate professor of ophthalmology, School of Medicine - COOL-ART-DR, a comprehensive diabetic retinopathy reading platform based on optical coherence tomography angiography
- **Gregory Landry, M.D.,** professor and chief of vascular surgery, School of Medicine - Smart Socket: A novel and dynamic microprocessor-controlled pneumatic socket that optimizes prosthetic fit via a smartphone application
- **Martin Pike, Ph.D.**, associate professor, Advanced Imaging Research Center - Development of Activity MRI (aMRI): Direct comparison to PET

Elise Erickson, Ph.D., assistant professor of nursing, School of Nursing, and Dr. Nicole Carlson, Ph.D., (Assistant Professor Emory University, and OHSU alum) were recently named winners in the "Decoding Maternal Morbidity Data Challenge," sponsored by the NIH National Institute of Child Health and Human Development. Together they received an award for Innovation and one for addressing Health Disparities.

Twenty-three nursing programs from across the country and across the academic spectrum of higher education in nursing and leading teaching hospitals and clinical sites have been named 2021 National League for Nursing Centers of Excellence™. OHSU earned its distinction in the category Enhance student learning and professional development. The process for applying started in 2019 and was borne out of Strategic Initiatives on Educational Standards led by **Ann Nielsen, Ph.D., M.S.N.,** associate professor of nursing, School of Nursing, and **Paula Gubrud-Howe, Ed.D., M.S.N.,** associate professor of nursing, School of Nursing. They led a series of sessions during 2019–2020 faculty forums to identify exemplars. After exploring options for best practices the group was enthusiastic about pursuing this designation with the overall goal of raising the level of excellent educational performance at OHSU. **Susan Bakewell-Sachs, Ph.D.,** dean, School of Nursing, said, "This was a faculty led decision and application process, based upon many

Brett Sheppard, M.D., summitted Mt. Kilimanjaro in 2015 with fellow OHSU oncologist Charles Blanke, M.D., to raise money for cancer research. The doctors braved extreme weather conditions on their climb to the top, where Sheppard raised a purple flag in honor of pancreatic cancer awareness. (Courtesy of Brett Sheppard)

years of focus and expertise on student learning and development. The application was a major undertaking in and of itself, which Joanne Noone and a team led, and what is in the application represents broad and deep work across the entire school—programs and campuses—and why we earned this Center of Excellence distinction."

Gail Armstrong, Ph.D., D.N.P., professor or nursing, School of Nursing, was inducted in the American Academy of Nursing 2021 Class of Fellows. Becoming a fellow means being recognized for the accomplishments one has made within the nursing profession. It also calls on the individual to continue to engage with health leaders to strengthen nursing and health delivery systems nationally and internationally.

Yali Jia, Ph.D., associate professor of ophthalmology, School of Medicine and Casey Eye Institute, was recently elected to the National Academy of Inventors elected an NAI Senior Member. Jia developed an algorithm that greatly improved the sensitivity of a highly efficient, non-invasive eye imaging technology called optical coherence tomographic angiography, or OCTA.

A $10 million gift from Norman and Linda Brenden to the OHSU Brenden-Colson Center for Pancreatic Care will bolster its efforts to help find better treatment strategies for patients with pancreatic disease. The center is a patient-centric research hub focused on: early detection of pancreatic cancer, advanced therapy and quality of life. According to the American Cancer Society, pancreatic cancer is estimated to be the third leading cause of cancer death in the U.S. in 2022 and to become the second leading cause of cancer death by 2030. Compared with other cancers, the five-year survival rate for pancreatic cancer—meaning the percentage of all patients who live five years after diagnosis—is very low, at an average of 11%. "Over 80% of patients with pancreatic cancer have the disease detected too late to even have a chance at curative multidisciplinary therapy," says **Brett Sheppard, M.D.,** professor of surgery, School of Medicine, who specializes in treating patients with pancreatic cancer. "Our center is deep in research protocols to develop new blood and saliva-based biomarkers to help detect pancreatic cancer

Four OHSU researchers have been recognized for exceptionally innovative research that promises to make significant contributions to their fields. (OHSU)

earlier." Sheppard, the William E. Colson Chair for Pancreatic Disease Research, says the gift will allow the Brenden-Colson Center to continue to leverage its research expertise and closely collaborate with the OHSU Knight Cancer Institute and Cancer Early Detection Advanced Research (CEDAR) Center, as well as investigators around the world focused on finding pancreatic cancer earlier.

"This transformational gift will expand our early detection efforts to include physician and patient education, allow us to further develop our clinic for high-risk patients, and increase our translational research to bring relief to patients who are suffering today," he said.

Four OHSU researchers have been recognized for exceptionally innovative research that promises to make significant contributions to their fields. The Faculty Excellence and Innovation Awards, made possible by the Silver Family Innovation Fund, provides exceptionally creative early- and middle-stage investigators with a total of $750,000 for each researcher over three years. The 2022 recipients are:

- **Andrew C. Adey, Ph.D.,** associate professor of Molecular & Medical Genetics, School of Medicine
- **Kathleen Carlson, Ph.D.,** associate professor of public health, OHSU-PSU School of Public Health
- **Fikadu Tafesse, Ph.D.,** assistant professor of Molecular Microbiology & Immunology, School of Medicine
- **Brandon Wilder, Ph.D.,** assistant professor in the Vaccine and Gene Therapy Institute

Adey's project will take novel approaches to directly address the challenge of providing a complete picture of gene functions in specific cell contexts. The new approaches aim to provide the versatility and power that is needed to interrogate the orchestration of the complex of components. New understandings of these biological systems will be useful to the broad life sciences community and to Adey's research program, which seeks to learn the fundamental molecular components and interactions that bring functional capabilities to a cell. Carlson's project is to coordinate and cultivate efforts to build an OHSU Gun Violence Prevention Research Center that could have both a state and national impact. She will bring together her training and experience in injury and violence epidemiology with her gun violence prevention

A doctor checks a patient's eyes. About 3 million U.S. residents have glaucoma, which can cause vision loss and blindness by damaging the optic nerve in the back of the eye. (Getty Images)

research to work with an existing network of experts, applied public health practitioners, and students and other trainees. The Tafesse Lab is devising a strategy that will make it possible to develop therapeutics and diagnostics that can be readily tailored to treat emerging diseases. They envision a nanobody discovery technology platform that would allow the researchers to generate effective nanobodies against emerging viral pathogens within weeks, instead of months or years. The Wilder lab has built an insectary to grow and maintain malaria-infected mosquitos. They have used this to establish nonhuman primate models of malaria and show that they closely mirror human malaria infection and immunology. This has provided an unprecedented opportunity to study the granular details of malaria immunology and use this to develop superior malaria vaccines.

OHSU is part of a national research project investigating stem cell therapy as a potential treatment for glaucoma, the world's second leading cause of blindness. With support from the National Institutes of Health, the project is studying human stem cells that are made into retinal ganglion cells, neurons involved in sight that are damaged by glaucoma. The research team will transplant the cells into an animal model of glaucoma. About 3 million U.S. residents have glaucoma, which can cause vision loss and blindness by damaging the optic nerve in the back of the eye. There is no cure for glaucoma, and the vision loss it causes can't be restored. Right now, glaucoma's progression can be only slowed with early treatments that involve medicated eye drops, lasers or surgery. Researchers hope stem cell therapy can stabilize or reverse glaucoma. Some of the challenges involved in making this potential treatment work include successfully transplanting the cells, as well as enabling the transplanted cells to avoid rejection by the immune system and to form connections in both the eye and the brain. The research team will specifically explore ways to make the stem cell-derived neurons survive and better integrate into the eye. As part of the study, OHSU Casey Eye Institute researcher **Benjamin Sivyer, Ph.D.,** assistant professor of ophthalmology, School of Medicine, will evaluate whether lab-transplanted cells respond to light, are successfully transplanted and form the eye-retina connections needed for vision.

Saulo Sousa Melo, Ph.D. D.D.S., assistant professor of integrative biosciences, School of Dentistry, was elected by the International Congress of Dental and Maxillo-facial Radiology to serve as a member of the editorial board of the preeminent oral radiology journal, *DMFR—Dentomaxillofacial Radiology Journal*.

RECENT APPOINTMENTS

Marie Chisholm-Burns, Pharm.D., Ph.D., M.P.H., M.B.A., FCCP, FASHP, FAST (OHSU)

Marie Chisholm-Burns, Ph.D., Pharm.D., M.P.H., M.B.A., has been appointed OHSU's next executive vice president and provost effective July 1, 2022. Dr. Chisholm-Burns comes to OHSU from the University of Tennessee Health Science Center where she has served as dean of the College of Pharmacy for 10 years. She currently has dual appointments as a distinguished professor with tenure in the Colleges of Pharmacy and Medicine. She is also a member of the American Society of Transplantation Board of Directors, and founder and director of the Medication Access Program, a statewide outreach organization responsible for increasing medication accessibility for solid-organ transplant recipients. Her contributions as a leader, educator and researcher have been recognized with numerous awards from national professional organizations, including the National Academies of Practice. With Dr. Chisholm-Burns at the helm, the college has also implemented scholarships for all students, launched a new campus and multiple dual degree and certificate programs, and consistently achieved outstanding graduation and licensure board examination pass rates. Additionally, she has made significant contributions—both professionally and personally—to diversity and inclusion efforts. Her work has led to the UTHSC College of Pharmacy now having one of the largest minority student populations among colleges of pharmacy nationwide. She received a Ph.D. from the University of South Dakota, an M.B.A. from the University of Memphis, an M.P.H. from Emory University, as well as a Pharm.D. from the University of Georgia. Dr. Chisholm-Burns is an inspiring leader, mentor and community member who seeks to build bridges to support and enhance health, education and research. "It is my great honor and privilege to be joining the OHSU family as your new executive vice president and provost. I look forward to working with each of you to continue building OHSU's success as a premier academic, research and health care institution."

Michael Walsh, Ed.D, has been named vice provost for Student Affairs at OHSU. Dr. Walsh has served as Portland State University's Associate Vice Provost and Dean of Student Life over the last two years. As vice provost for Student Affairs, he is responsible for ensuring that OHSU delivers innovative and effective programs that provide students with a safe, supportive, enriching, and stimulating learning environment at our campuses throughout Oregon, enabling students to reach their full potential. In collaboration with academic leadership at the program, school and institutional level, Dr. Walsh will develop a strategic vision for student affairs at OHSU, leading its implementation, and overseeing ongoing operations. He will directly supervise the Office of Student Access, Office of Student Life, Student Health & Wellness, the Student Confidential Advocacy Program, Student Academic Support Services, the Office of Science Education Opportunities, and the Food Resource Center. Dr. Walsh's role is responsible for ongoing assessment of the student support services to ensure that they are meeting learner needs. "I would like to thank Interim Provost Robinson for this opportunity, and I look forward to working with him and incoming Provost Chisholm-Burns," said Dr. Walsh. "All of my life I have centered my work on care for the

learner, and dedicated support of the staff and faculty who help shape the learner experience. My mission is to champion the learner experience so that they will reach their goals and move on to make a difference in this world. I am so happy to join the OHSU community because it is clear that OHSU shares in that same vision. I look forward to working with everyone to continue to create seamless learner advocacy, engagement, and success opportunities at OHSU." Dr. Walsh is a certified Title IX Coordinator through the National Association of College and University Attorneys, and is a certified civil rights and Title IX investigator. He serves on the Oregon Attorney General's Sexual Assault Task Force focusing on college campuses and prevention. In addition, he serves on the Advisory Board for the PSU Student Landing, Oregon's first homeless shelter dedicated to college students, which was created by Portland First United Methodist Church in partnership with PSU. Dr. Walsh is also a founding member of the Coalition to House Students, which focuses on creative solutions for solving the college student housing insecurity problem. He frequently presents on topics such as de-escalation strategies, student housing insecurity, and the role of advising and faculty relationships towards student success.

Skylar Stewart-Clark, Ph.D., has been named Physician Assistant Program Director, and Head of the Division of Physician Assistant Education in the School of Medicine. As PA program director, she will be responsible for overall leadership, direction, organization, and fiscal oversight of the PA Program. She will provide leadership for the program faculty and staff, develop goals and objectives for the program to ensure excellence in the education provided to students, and maintain and direct a process of continuous self-assessment to ensure ongoing compliance with the Accreditation Standards for Physician Assistant Education. Dr. Stewart-Clark will also supervise faculty and staff in their roles to support program goals and objectives, serve as a role model and mentor for faculty, and manage other key responsibilities. Dr. Stewart-Clark has a clear vision for continuing that advancement. She believes that PAs play a vital and unique role in shaping the healthcare landscape of Oregon, and is looking forward to capitalizing on the strengths of the OHSU PA program's longstanding history of excellence, while advancing diversity, equity, inclusion, and belonging. She sees her mission as to center historically marginalized voices while reimagining the impact of attaining unprecedented success in meeting the diverse healthcare needs of Oregon and beyond. Globally, Dr. Stewart-Clark has been leading and participating in medical mission trips to Central and Latin America since 2012. At a state and local level, she chaired the pre-PA committee for the South Carolina Academy of Physician Assistants, and served on their diversity committee. She is also a founding member of the Black PAs of South Carolina, which seeks to support and engage Black PAs, PA students, and pre-PAs in the state. "I am proud to be a PA, and blessed to have the opportunity to lead the OHSU PA Program," said Dr. Stewart-Clark. "It is my experiences as a Spanish-speaking provider and mother in a multicultural family that fuel my passion to remove barriers to providing equitable medical care for all. I am also passionate about mentoring underrepresented minorities to pursue careers in medicine, and innovating to meet the educational needs of learners in an impactful way."

Ronald Sakaguchi, Ph.D., D.D.S., M.B.A., has been named dean of OHSU's School of Dentistry. He assumes the role after serving as the school's interim dean since October 2020. Sakaguchi joined the OHSU School of Dentistry in 1994. He has served in a number of dental school leadership roles over the years, including associate dean for research and innovation, during which he was part of a faculty team that supported a panel of Oregon business executives to form the plan for the construction of the School of Dentistry's new home, which opened on OHSU's South Waterfront campus in 2014. After completing an M.B.A. in entrepreneurship at Babson College in 2008, he joined the OHSU School of Medicine's Division of Management, where he created and taught courses for health care administration graduate certificate, M.S. and M.B.A. programs. Sakaguchi is a widely published dental biomaterials and biomechanics researcher with an extensive history of grant funding from the National Institutes of Health and industry. He has served in leadership roles with

Ronald Sakaguchi, Ph.D., D.D.S., M.B.A. (OHSU)

the International Association for Dental Research and Academy of Dental Materials, where he is also a fellow. He was an associate editor of the scientific journal Dental Materials and was senior editor of Craig's Restorative Dental Materials 14th edition textbook, which is used globally. He was recently named a fellow of the American College of Dentists. He received training as a prosthodontist at the University of Minnesota School of Dentistry, where he became a member of its Department of Oral Sciences faculty and joined its Minnesota Dental Research Center for Biomaterials and Biomechanics. Sakaguchi earned a Ph.D. in biomaterials and biomechanics from the University of Greenwich (formerly Thames Polytechnic, London), a doctoral degree in dental surgery from Northwestern University Dental School, a master's degree in prosthodontics from the University of Minnesota and a bachelor's degree in cybernetics from UCLA. "I thank President Jacobs and Interim Provost Robinson for this opportunity and am grateful and inspired by the compassion and dedication of our faculty, staff, students and residents for their care of our patients, education of our learners and new research discoveries for our future," said Sakaguchi. "I am committed to fostering an inclusive environment for learning and health care where everyone can thrive, as well as building an infrastructure that engages our community and partners, and enhances our education, clinical and research excellence."

Hector Olvera Alvarez, Ph.D., M.S., associate professor of nursing, School of Nursing, was selected for membership on the Board of Directors of the Oregon Latino Health Coalition (OLHC). This group is the only Latino-led, Latino-accountable health policy advocacy organization in Oregon dedicated to eliminating Latino health disparities. Olvera Alvarez said, "One of my priorities as Sr. Associate Dean of Research is to support the continued growth of our Health Equity research and scholarship programs. One specific way I can help our community of researchers and scholars working in this area is to establish collaborations with institutions that have first-hand understanding of the challenges that socially disadvantaged populations in Oregon face when experiencing health care or managing their health. From that perspective OLHC is an ideal institution to collaborate with. They have extensive experience in serving Latinx communities in Oregon and being part of their board will help me better identify the research and scholarship needs of these communities that we could help address. At a personal level, I am also very excited to have this opportunity to engage with the Latinx communities. I had envisioned doing this quickly when I got here in fall of 2019 but then the pandemic happened. I am so grateful for the opportunity to serve OLHC and to engage with Latinx communities across Oregon." The OLHC's mission is helping to eliminate health disparities in our vulnerable Latinx communities across Oregon.

Erik Brodt, M.D., associate professor of family medicine, School of Medicine, and director of the Northwest Native American Center of Excellence, has been appointed assistant dean for Native American health. "In just a short time, Dr. Brodt has established the OHSU Northwest Native American Center of Excellence as a national model and a model for us at OHSU of how to transform medicine to include, attract and tap individuals with the cultural wisdom and identity to expand the path to healing for everyone and especially for Indigenous people in the Northwest and beyond," said former Dean Anderson of her

final appointment after four years as dean. "This appointment recognizes Dr. Brodt's very substantial contributions to enhancing the prominence of American Indian/Alaska Native students, staff, and faculty at OHSU and the importance of that work going forward." Dr. Brodt, who is Ojibwe, joined OHSU from the University of Wisconsin-Madison in January 2016. In 2017, he and OHSU were awarded a $3.5 million federal Human Resources & Services Administration (HRSA) Center of Excellence grant to create the Northwest Native American Center of Excellence, housed in the School of Medicine, to inspire and recruit the next generation of Native healers, train tomorrow's leaders and retain a vibrant community. The school has provided funding and space to advance this effort. In 2018, the center launched a centerpiece initiative, the Wy'East Post-baccalaureate Pathway, to equip American Indian and Alaska Native students for success in medical school. Students who complete the 10-month culturally rooted, preparatory pathway earn conditional acceptance into medical school at OHSU, UC-Davis or the University of Washington. To date, 27 students have completed the pathway and 22 have matriculated to medical school, most at OHSU. The OHSU School of Medicine M.D. Class of 2025 includes 12 students who identify as American Indian or Alaska Native, or nearly 9 percent of the class, one of the highest concentrations among medical schools in the nation. "I look forward to ushering in a new dawn in medical education where American Indian and Alaska Native health are elevated within the wider context of academic medicine," he said. "The dean's trust and faith in me and the NNACoE team is humbling. We acknowledge her advocacy and voice in ensuring that these efforts flourish at OHSU and beyond." Brodt was also one of 100 newly elected members of the National Academy of Medicine, whose members advise the nation on medical issues, for "leadership in American Indian/Alaska Native workforce development and pioneering innovative methods to identify, inspire and support American Indian/Alaska Native youth to excel." Election to the academy is considered one of the highest honors in the fields of health and medicine and recognizes individuals who have demonstrated outstanding professional achievement and commitment to service.

TRANSITIONS

David Bangsberg, M.D., M.P.H., will step down as dean of the OHSU-PSU School of Public Health, having fulfilled his professional objective to build a strong and collaborative foundation for the school, its faculty and students, and set a path for the success of future leadership. He will remain in the role until the second half of calendar year 2022 to assist OHSU and PSU in a national search for the next School of Public Health dean. Bangsberg returned to the Portland Metro area, his hometown, in September 2016 to serve as the School of Public Health's founding dean. Under his direction, the school has made great strides in helping to expand community knowledge, understanding and interest in the importance of public health. Of note, enrollment in the school's MPH program has increased more than 76%, and has seen significant growth in the matriculation of students who identify as underrepresented or first-generation learners. This helps to expand Oregon's public health workforce—a crucial need as the state continues to respond to the unique impacts of the COVID-19 pandemic. In addition to overseeing the completion of the school's accreditation process in 2017, Bangsberg implemented a number of programs to increase public health awareness and education accessibility. With a personal pledge of $100,000, he and his wife Lynn O'Kelly established the School of Public Health Dean's Scholarship Fund to help support a promising and diverse student body. To date, the fund has distributed more than $500,000 in tuition support to 54 first-generation public health students. Local and federal research funding for faculty within the school of public health has increased nearly two-fold over the past five years, now boasting more than $26 million to support evidence-based study on topics ranging from health reform to social determinants of health. And, as a part of its antiracism initiative, the school recently announced the recipients of its inaugural Anti-Racism Faculty Fellowships, which offer grant funding to support faculty efforts to advance antiracism, decolonization, and social justice through research, teaching and service. Bangsberg has served as a beacon

of collaboration, not only at OHSU and PSU, but across the broader public health, research and education communities. Following his tenure, Bangsberg and his family will return to the San Francisco Bay Area. This move marks a return to the area where he and his wife started their family, and where Bangsberg completed his fellowships in infectious disease and AIDS prevention at the University of California, San Francisco, and a master's degree in public health from the University of California, Berkeley.

Rick Johnson, Ph.D., M.S., professor of public health, OHSU-PSU School of Public Health, has agreed to serve as interim dean of the OHSU-PSU SPH while both institutions undertake a national search to find a dean who will serve in a permanent capacity. Dr. Johnson is the associate dean for academic affairs and a professor in the OHSU-PSU SPH, and the former director of the Environmental Systems and Human Health Program in the SPH. Dr. Johnson received his B.S. degree in chemistry from the University of Washington, and his M.S. and Ph.D. degrees from the Oregon Graduate Institute (now part of OHSU). He has been a faculty member at OHSU since 1985, and teaches in the areas of public health relating to climate change, drinking water availability, chemical and transport and transformation in the environment, and restoration of sites contaminated by industrial and other sources. His research interests involve forecasting of water quality in rivers to protect drinking water sources, development of diagnostic tools for groundwater restoration, and vulnerability of groundwater sources of drinking water. With more than three decades of experience as a faculty member at OHSU, and seven years with the SPH, Dr. Johnson will provide an experienced hand as the national search for a dean unfolds. "I thank both Interim Provost Robinson and Provost Jeffords for this opportunity, and for their support," Johnson said. "I look forward to guiding the School of Public Health through this period of transition, and am committed to maintaining the positive environment for our learners built by Dean Bangsberg."

IN MEMORIAM

Jack W. Clinton, D.M.D.

JANUARY 3, 2022

Dean Emeritus Jack W. Clinton, D.M.D., who retired from OHSU in 2012, passed away Jan. 3, 2022. Clinton served as the dean of OHSU School of Dentistry from 2004–2012. He helped coordinate the dental school's transition from its location on Marquam Hill into the Skourtes Tower on OHSU's South Waterfront Campus. Clinton's leadership and service were highly regarded within the school, the dental community and beyond. He graduated from the University of Oregon School of Dentistry (now OHSU) in 1964 and was hired on as a clinical instructor. Prior to becoming the dean in 2004, Clinton served as interim dean and held numerous positions, including associate dean for clinical affairs and associate dean of student affairs. Clinton served as president of the OHSU School of Dentistry Alumni Association from 1979–1980, and was inducted as an International College of Dentists (ICD) fellow in 1991, serving as president of the U.S.A. Section of ICD 2011–2012. In 2016, he was elected as a master into the International College of Dentists. Clinton created and supported many key programs for which he will be remembered. These include the creation of the Dental Careers Institute for those considering a career in dentistry, implementing D.M.D. group practice clinics named after the Portland bridges, the White Coat Ceremony, student outreach rotations, the General Practice Residency, the Hospital Dental Service, and the adoption of the axiUm electronic dental record. Clinton is survived by his wife of 60 years, Mary, his daughter, Susan (Wayne), his son, John (Jenelle), and three grandchildren, Jake, Brooke and Jordyn.

Elizabeth Hatfield-Keller, M.D.

SEPTEMBER 13, 2021

Shelly Jones, Ph.D.

2021

Muriel D. Lezak, Ph.D.

OCTOBER 6, 2021

David J. Sahn, M.D.

DECEMBER 31, 2021

NEW EMERITUS

Elena M. Andresen, Ph.D.
PROFESSOR EMERITUS, OFFICE OF THE PROVOST

Michael C. Andresen, Ph.D.
PROFESSOR EMERITUS, CHEMICAL PHYSIOLOGY AND BIOCHEMISTRY

Joan S. Ash, Ph.D.
PROFESSOR EMERITUS, MEDICAL INFORMATICS AND CLINICAL EPIDEMIOLOGY

Virginia L. Brooks, Ph.D.
PROFESSOR EMERITUS, CHEMICAL PHYSIOLOGY AND BIOCHEMISTRY

Sunwen Chou, M.D.
PROFESSOR EMERITUS, MEDICINE

Amanda L. Clark, M.D.
ASSOCIATE PROFESSOR EMERITUS, OBSTETRICS AND GYNECOLOGY

Sara A. Courtneidge, Ph.D.
PROFESSOR EMERITUS, CELL, DEVELOPMENTAL AND CANCER BIOLOGY

Richard D. Daniels, Ph.D., R.N.
ASSOCIATE PROFESSOR EMERITUS, SCHOOL OF NURSING

Larry L. David, Ph.D.
PROFESSOR EMERITUS, CHEMICAL PHYSIOLOGY AND BIOCHEMISTRY

James M. Edwards, M.D.
PROFESSOR EMERITUS, SURGERY

Carol S. Federiuk, Ph.D., M.D.
ASSOCIATE PROFESSOR EMERITUS, FAMILY MEDICINE

Frederick T. Fraunfelder, M.D.
PROFESSOR EMERITUS, OPHTHALMOLOGY

Joe W. Gray, Ph.D.
PROFESSOR EMERITUS, BIOMEDICAL ENGINEERING

Elizabeth Hatfield-Keller, M.D.
ASSISTANT PROFESSOR EMERITUS, EMERGENCY MEDICINE

Daniel J. Karr, M.D.
PROFESSOR EMERITUS, OPHTHALMOLOGY

Michael L. Klein, M.D.
PROFESSOR EMERITUS, OPHTHALMOLOGY

Dennis R. Koop, Ph.D.
PROFESSOR EMERITUS, CHEMICAL PHYSIOLOGY AND BIOCHEMISTRY

Donald Lynn Loriaux, Ph.D., M.D.
PROFESSOR EMERITUS, MEDICINE

Cheryl L. Maslen, Ph.D.
PROFESSOR EMERITUS, MEDICINE

David L. May, Ph.D., D.M.D.
ASSOCIATE PROFESSOR EMERITUS, ORTHODONTICS

Marian S. McDonagh, Pharm.D.
PROFESSOR EMERITUS, MEDICAL INFORMATICS AND CLINICAL EPIDEMIOLOGY

Charles K. Meshul, Ph.D.
PROFESSOR EMERITUS, BEHAVIORAL NEUROSCIENCE

NEW EMERITUS

Linda T. Meyer, M.S.N., R.N.
ASSISTANT PROFESSOR EMERITUS, SCHOOL OF NURSING

Mark D. Nichols, M.D.
PROFESSOR EMERITUS, OBSTETRICS & GYNECOLOGY

Ann E. Nielsen, Ph.D., M.N., R.N.
ASSOCIATE PROFESSOR EMERITUS, SCHOOL OF NURSING

Mark T. O'Hollaren, M.D.
PROFESSOR EMERITUS, MEDICINE

SuEllen J. Pommier, Ph.D.
RESEARCH ASSOCIATE PROFESSOR EMERITUS, SURGERY

Kamm D. Prongay, D.V.M., M.C.R.
PROFESSOR EMERITUS, OREGON NATIONAL PRIMATE RESEARCH CENTER

Matthew C. Riddle, M.D.
PROFESSOR EMERITUS, MEDICINE

Oline K. Ronnekleiv, Ph.D.
PROFESSOR EMERITUS, CHEMICAL PHYSIOLOGY AND BIOCHEMISTRY

Jone E. Sampson, M.D.
PROFESSOR EMERITUS, MOLECULAR AND MEDICAL GENETICS

Robert E. Shangraw, Ph.D., M.D.
PROFESSOR EMERITUS, ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Mary P. Stenzel-Poore, Ph.D.
PROFESSOR EMERITUS, MOLECULAR MICROBIOLOGY AND IMMUNOLOGY

John D. Stull, M.D.
ASSISTANT PROFESSOR EMERITUS, SCHOOL OF PUBLIC HEALTH

Charles R. Thomas, Jr., M.D.
PROFESSOR EMERITUS, RADIATION MEDICINE

Mitchell S. Turker, J.D., Ph.D.
PROFESSOR EMERITUS, OREGON INSTITUTE OF OCCUPATIONAL HEALTH SCIENCES

Eric W. Walsh, M.D.
PROFESSOR EMERITUS, FAMILY MEDICINE

Richard G. Weleber, M.D.
PROFESSOR EMERITUS, OPHTHALMOLOGY

David J. Wilson, M.D.
PROFESSOR EMERITUS, OPHTHALMOLOGY

Peggy L. Wros, Ph.D., R.N.
PROFESSOR EMERITUS, SCHOOL OF NURSING

Jonathan Zonana, M.D.
PROFESSOR EMERITUS, MOLECULAR AND MEDICAL GENETICS

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SPRING
2022

Emeritus

A NEWSLETTER FOR OHSU EMERITUS FACULTY