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INNOVATION AND COMMERCIALIZATION

OHSU INNOVATES

May 10, 2023

LEADERSHIP MESSAGE

We thank each of you who helped make Innovation Day so energizing. It takes engaged and curious participants to create a vibrant event, and Innovation Day attendees most definitely showed up ready to learn and participate. Our thanks to you all.

Travis Cook, M.S., M.B.A., CLP

Senior Director, Technology Transfer

Aditi Martin, Ph.D.

Senior Director, Collaborations and Entrepreneurship

FEATURED STORY

OHSU INNOVATION DAY 2023



Panelists Mandy Gettler, Jackie Wirz, Ph.D., Cara Turano, and Hazel Valdez spoke with moderator Nicole Garrison, M.B.A., about how innovators and entrepreneurs can beat the odds in the commercialization pathway.

That's a wrap on OHSU Innovation Day 2023!

Thank you to everyone that joined us last week for a motivating Innovation Day! It was a great program filled with speakers exploring the journeys, resources and career paths that help take innovative science beyond the bench. A special thank you to all the panelists and presenters for sharing their expertise and innovative ideas.

- Azurii Collier, Ph.D., kicked off the day challenging each of us to consider ourselves innovators and then explored both the history and future of biotech.
- At the panel, 'Beating the odds,' regional leaders in the innovation and entrepreneurial ecosystem shared resources and advice for joining the community and building a strong network for success.
- The 'Insider's guide to careers outside academia' panel was a candid discussion about the hurdles and highlights of striking out from traditional academic career paths into industry, patent law and more.
- The day ended with a showcase of OHSU technologies, partnerships and startups — all on a path toward creating a real impact on patient care.

We hope the day inspired our OHSU members and the local community to join us in the quest to continue to build a thriving innovation ecosystem here in Oregon. If you're interested in engaging with our local innovation and entrepreneurial network, OHSU Innovates encourages you to connect with us at innovates@ohsu.edu to learn more.

FEATURED NEWS

OHSU research opens up new possibilities for brain imaging, detecting cancer, monitoring

Researchers at OHSU have developed a way to use magnetic resonance imaging, or MRI, scanning to reveal cells' energy activity in organs and tissues. The innovation — called metabolic activity diffusion imaging, or MADI — is opening new possibilities for detecting cancers and revealing whether a tumor is responding to treatment. Read more about this innovative technology from a team led by [Charles Springer, Ph.D.](#), at the Advanced Imaging Research Center in the [OHSU News article](#).

A surgeon-scientist blazes a new path to immune-based cancer treatment

OHSU physician scientist [Robert Eil, M.D.](#), and colleagues, point the way to new strategies for cancer immunotherapy. Eil's goal is to genetically alter T cells so that they can remain active in the high-potassium microenvironment of a tumor. Read more about the research program in the [OHSU News article](#).

Internationally renowned OHSU cancer biologist elected to the National Academy of Sciences

In recognition of her scientific work and contributions to the field of cancer research, the National Academy of Sciences [announced](#) on May 2, 2023, that [Lisa Coussens, Ph.D.](#), was among 143 newly elected members. Membership is a widely recognized mark of excellence in science, and one of the highest honors that a scientist in the United States can receive. Read more about Coussens' achievements in the [OHSU News article](#).

PDX Pharmaceuticals selected as a semi-finalist for the AIM-HI Women's Venture Competition

OHSU startup company [PDX Pharmaceuticals](#), founded by [Wassana Yantasee, Ph.D.](#), was selected as one of six semifinalists for the AIM-HI Women's Venture Competition, which provides funding, coaching and networking opportunities to women-led oncology start-ups to address unmet medical needs. Read more about the [selection of the semi-finalists](#).

Gamma Diagnostics nominated as a finalist for the 2023 Oregon Technology Awards

OHSU startup company [Gamma Diagnostics](#), founded by [David Farrell, Ph.D., FAHA](#), was nominated in the Emerging Award category by the Technology Association of Oregon. Learn more about the [Oregon Technology Awards](#) event being held May 16.

ANNOUNCEMENTS



2023 INNOVATION AND COMMERCIALIZATION INTERNS



Danica Bojovic

OHSU



Cole Brashaw

OHSU



Jessica Santana Agreda

OHSU

Apply to be an intern for fall 2023 here: <https://bit.ly/3OUJvmk>

The Innovation and Commercialization Internship is accepting applications for the Fall 2023 cohort

OHSU Innovates' virtual internship provides participants with educational training and hands-on experience in technology transfer, patent law and/or business development. The internship begins in October 2023 and is open to both OHSU and non-OHSU members. Applications accepted through July 14!

Learn more about the current interns and the application process on the [OHSU Innovation and Commercialization Internship webpage](#).

Join the OHSU Collaborations and Entrepreneurship team!

Are you interested in joining the OHSU Innovates network to drive innovation and entrepreneurship at OHSU and across our region? OHSU Collaborations and Entrepreneurship is hiring an Alliance Manager who will facilitate building collaborations that enhance OHSU research and innovation. Find out more information and apply on the [OHSU Jobs website](#).

Andrea Dayot recognized with the Governor's Innovation Award for Occupational Safety and Health

Congratulations to Andrea Dayot, BSN, director of Occupational Health, who was named one of 11 recipients of the Oregon Governor's Occupational Safety & Health (GOSH) Award by Governor Tina Kotek. Dayot received the GOSH Innovation Award for helping to create a comprehensive online training program to equip health care workers with the information needed to safely and effectively administer COVID-19 vaccines to the public. The video training received top ratings and was used to train health care staff at OHSU and then externally after being licensed to the California Emergency Medical Services Authority. Read the [OHSU accolade](#) and the Public Health Foundation's [announcement](#).

Druker receives lifetime achievement award at Stanford Symposium

OHSU Knight Cancer Institute Director [Brian Druker, M.D.](#), was awarded the Stanford Cardiovascular Institute Lifetime Achievement Award at the 2023 Stanford Drug Discovery Symposium, April 24-25. [Druker's groundbreaking work](#) proved it was possible to shut down cells that enable cancer to grow without harming healthy ones – a discovery that helped make once-fatal forms of cancer manageable.

FUNDING OPPORTUNITIES

Each week, OHSU Research Development compiles a list of funding opportunities from internal sources, the government and private foundations. [The list is published every Thursday](#). A [.pdf of the current list](#) is also available.

FEATURED EVENT



*Meet bio entrepreneurs
building the future.*



WEDNESDAY, MAY 17TH | 3:00 PM

Don't miss the Angel Oregon Life and Bioscience Finale - May 17

Join the [Oregon Entrepreneurs Network](#) for the Angel Oregon Life & Bioscience (AOBIO) Grand Finale + Innovation Showcase, to be held in person on Wednesday, May 17, 2023, 3-7 p.m., at Amaterra Winery in Portland.

Help us cheer on two OHSU startup finalists, [Trace Biosciences](#) and [Promedix](#) as they compete for the final investment. AOBIO is the premier PNW life and bioscience investment program and is hosted by Oregon Entrepreneurs Network (OEN) in partnership with Oregon Bioscience Association, Oregon Bioscience Incubator/OTRADI and OHSU.

Find more information and register at the [AOBIO Finale website](#).

UPCOMING EVENTS

MAY 11	Oregon State University's Advantage Accelerator: 10 Year Accelebration
MAY 11	35th Annual OAME Trade Show
MAY 15-18	2nd Annual America's Seed Fund Week
MAY 16	2023 Oregon Technology Awards: Imagining a New Future
MAY 18	Bio in the High Desert
MAY 20	TEDxPortland Year 11 - Confluence
MAY 22-24	INVEST 2023
MAY 24	Oregon Startup Center - Legal Priorities for Startups: Panel Discussion + Q&A
JUNE 1	WIS Portraits in STEM 2023 Competition - Deadline Extended!
JUNE 5-8	BIO 2023: Showcase Your Company at the

Oregon Pavilion

JUNE 14	OEN June PubTalk: The Non-Dilutive Funding Landscape
JUNE 15	TIE Women: 2023 Global Pitch Competition Application Deadline
JUNE 17	ChatGPT Unconference
JUNE 25-27	National Academy of Inventors 12th Annual Meeting

TECHNOLOGIES

Featured technologies available for licensing

A selection of OHSU-developed technologies available for licensing to industry partners. For more technologies visit the [OHSU Technology Portal](#).

[OHSU 2745](#) – Anoxic/hypoxic brain imaging map

[OHSU 3148](#) - Engineered bacteria for lung cancer diagnostics injections

[OHSU 3081](#) - Novel single-gene biomarker for acute myeloid leukemia prognosis

Newly Licensed or Optioned OHSU Technologies

Congratulations to the inventors of these technologies, which were recently licensed or optioned to outside partners.

[OHSU 1771](#) - Materials from the BioLibrary

[OHSU 2475](#) - Novel Fluorescent Dyes for In Vivo Nerve-Specific Imaging
(Connor Barth, Ph.D., [Summer Gibbs, Ph.D.](#), and [Lei Wang, Ph.D.](#))

[OHSU 2624](#)- Novel Second Generation Fluorescent Dyes For In Vivo Nerve-specific Imaging (Connor Barth, Ph.D., [Summer Gibbs, Ph.D.](#), and [Lei](#)

[Wang, Ph.D.\)](#)

OHSU 2836 - Oxazine Based Water-soluble Fluorophore Library for In Vivo Nerve-Specific Imaging (Connor Barth, Ph.D., [Summer Gibbs, Ph.D.](#), and [Lei Wang, Ph.D.](#))

OHSU 2853 - A Fine-tuned Oxazine Based Fluorophore Library for In Vivo Nerve-Specific Imaging (Connor Barth, Ph.D., [Summer Gibbs, Ph.D.](#), and [Lei Wang, Ph.D.](#))

OHSU 3042 - Fine-tuned water-soluble nerve dyes for in vivo nerve-specific imaging (Connor Barth, Ph.D., [Summer Gibbs, Ph.D.](#), Antonio Montano, and [Lei Wang, Ph.D.](#))

OHSU 3188 - OHSU Dermpath Melanoma FFPE Samples ([Sancy Leachman, M.D., Ph.D.](#))

OHSU 3202 - RiboCypher A549 and BEAS-2B data – RNA (raw and processed), translated RNA sequences (FASTA), identified peptide hits, DeepImmuno, mhcFlurry predicted peptide hits ([Jessie May Cartier](#) and [Mark Flory, Ph.D.](#))

OHSU 3212 - Generation and characterization of novel immortalized rhesus macaque trophoblast cell lines ([Shawn L. Chavez, Ph.D.](#), and [Victoria HJ Roberts, Ph.D.](#))

OHSU 3229 - Osteosarcoma Tissue MicroArrays (TMAs) “OSTMAbx 4-6” ([Lara Davis, M.D.](#), and [Melanie Hakar, D.O.](#))

OHSU 3230 - A Resource to Study the Effect of Diet and Hyperandrogenemia on Different Primate Organ Systems ([Jon D. Hennebold, Ph.D.](#), and [Ov D. Slayden, Ph.D.](#))

U.S. Patents Issued

Congratulations to the OHSU inventors of these recently issued U.S. patents.

[Patent 11,633,379](#) - Methods of Inhibiting PCSK9

[Patent 11,613,517](#) - Amide Prodrugs of Small Molecule Nuclear Receptor Modulators

[Patent 11,628,215](#) - HIV Vaccines Comprising One or More Population Episensus Antigens
[Patent 11,578,032](#) - Derivatives of Sabetirome

[Patent 11,578,073](#) - Xanthine Analogs as Potent Anti-West Nile Viral Agents

[Patent 11,574,704](#) - Method for subtyping lymphoma types by means of expression profiling

[Patent 11,572,637](#) - Methods of Viral Neutralizing Antibody Epitope Mapping

[Patent 11,571,238](#) - Endarterectomy Device

[Patent 11,566,019](#) - 2-pyrimidone Analogs as Potent Antiviral Agents Against Alphaviruses

[Patent 11,564,673](#) - Delivery Systems for Control of Gastrointestinal Bleeding

[Patent 11,554,168](#) - HIV Vaccines Comprising One or More Population Episensus Antigens

[Patent 11,554,044](#) - Glaucoma Tube Implant with Modulated Flow

Researchers in New Industry Funded Research Projects

Congratulations to the Principal Investigators of new non-clinical industry sponsored research.

[Ted Braun, M.D., Ph.D.](#), and [Julia Maxson, Ph.D.](#) - Mechanisms of combinatorial oncogenesis in systemic mastocytosis

[Guang Fan, M.D., Ph.D.](#) - Validation of AI-assisted bone marrow aspirate, peripheral blood, body fluids differentials

[Andrew Emili, Ph.D.](#), and [Xiaolin Nan, Ph.D.](#) - Microscopy and single molecule imaging techniques

[Aaron Janowsky, Ph.D.](#) - Fentanyl induces naloxone-resistant vocal cord closure: target validation and development of opioid overdose treatments using a peer-reviewed animal model

[Leonardo M. Pereira, M.D., M.C.R.](#) - Study to characterize the management, clinical course, and outcomes of pregnancies in women who have experienced a pregnancy with early onset severe HDFN

[Juan Piantino, M.D., M.C.R.](#) - Noninvasive glymphatic monitoring

[Larry Sherman, Ph.D.](#) - Preclinical screening for treatment of schwannomatosis pain

[Elie Traer, M.D., Ph.D.](#) - Testing to determine optimal efficacy for clinical trial combinations

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Questions? Contact us at innovates@ohsu.edu.

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Institute.

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