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**INNOVATION AND COMMERCIALIZATION**

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May 1, 2024

## OHSU Innovates



### LEADERSHIP MESSAGE

Thank you to everyone who joined us for the 2024 Innovation Awards in March. The event brought together external community partners and individuals from across OHSU, including executive leadership, the OHSU Foundation, faculty, researchers, students, and postdocs, all dedicated to advancing innovation and healthcare solutions. It was a fantastic opportunity to engage with this growing innovation community and celebrate their accomplishments. Check out snapshots from the evening in

OHSU Now's recent [Photo of the Week post](#).

Moreover, this May newsletter highlights additional achievements worth celebrating, such as new grants, awards and publications for OHSU innovators and their supporters. Dive into the latest updates on OHSU technologies and startups below.

Lastly, remember to sign up for Innovation Day taking place next Thursday, May 9! Details and registration link provided below.

**Travis Cook**, M.S., M.B.A, CLP  
Senior Director, Technology Transfer

**Aditi Martin**, Ph.D.  
Senior Director, Collaborations and Entrepreneurship

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## FEATURED EVENT

### **Join us next week for Innovation Day!**

There is still time to register for Innovation Day, held Thursday, May 9. Come join for a single session or attend the whole day to get inspired and prepared for your own innovation journey! Check out the schedule below and [register through Eventbrite](#).

#### **10 a.m. | Keynote by David Huang, M.D., Ph.D.**

*“Seeing Small and Aiming Big: the Development and Clinical Impact of Optical Coherence Tomography”*

Don't miss the chance to hear from OHSU's own Lasker Award winner about his incredible journey as an inventor of optical coherence tomography, which has transformed how eye diseases are detected and treated.

#### **11 a.m. | OHSU Innovation Showcase**

Learn about some of the latest inventions, industry partnerships and

startup companies happening at OHSU.

### **1 p.m. | Marketing your science to industry**

Tailor your scientific pitch for industry audiences with tips and tricks from a panel of industry experts.

### **4 p.m. | Careers in venture capital and scientific startups** (in-person, OHSU Auditorium)

Get advice on how to break into the entrepreneurial world and what to expect when you get there from career entrepreneurs and investors.

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## NEWS

### **OHSU announced as a winner of the 2024 Growth Accelerator Fund Competition**



OHSU Innovates, in partnership with the Oregon Clinical and Translational Institute, the Oregon Bioscience Association and Oregon Bioscience Incubator, was recently announced as a Stage One winner for the U.S. Small Business Administration's (SBA) 2024 Growth Accelerator Fund Competition (GAFC). OHSU will receive \$50,000 for its inclusive approach in supporting the launch, growth, and scale of STEM/R&D-focused small

businesses in biotechnology. See the [press announcement](#) for more details about the competition and prize.

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## OHSU AI-based technology could expand global treatment for retinopathy of prematurity

A recent publication found that an artificial intelligence technology developed at OHSU can accurately and independently detect 100% of severe cases of a blindness-causing condition that affects prematurely born babies. The technology is being developed by the OHSU startup company [Siloam Vision](#), co-founded by Peter Campbell, M.D., M.P.H. The technology received funding and support from the Biomedical Innovation Program in 2023. Read more about the recent publication on [OHSU News](#).

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## Spotlight on Ellen Tilden and OHSU startup Center M

Ellen Tilden, CNM, associate professor of nurse-midwifery, is innovating new solutions to prevent depression during and after pregnancy. Tilden is a co-founder of the OHSU startup company Center M, which is developing mental health support for pregnant and postpartum patients, primarily using mindfulness-based cognitive behavior therapies. Learn more about Tilden and Center in the [OHSU Foundation article](#).

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## Learn more about the Corvallis Microfluidics Tech Hub

OHSU is proud to be a collaborator in the Oregon State University-based Microfluidics Tech Hub. OHSU brings expertise in biotechnological applications of microfluidics to the hub. Hear more about the hub's goal and offerings in the [recently released video](#).

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## OHSU research sheds a light on how genetic mutations affect protein function

Mutations in PTEN are drivers of many different forms of cancer and are also associated with other clinical conditions, such as autism spectrum disorder. Research from the laboratory of Brian O'Roak, Ph.D., examined 7,244 single amino acid genetic variants of the PTEN to better understand which mutations may affect protein function.

OHSU recently entered into an agreement with Constantiam Biosciences to further harness the power of this study for their MAVEvidence platform, which acts as a functional evidence resource for clinical geneticists, variant scientists, and genetic counselors. MAVEvidence provides data on the functional significance of specific genetic mutations, including variants of uncertain significance, which often impede timely diagnosis and treatment. The license agreement between Constantiam and OHSU will enable clinical applications of PTEN research and its role in human health and disease.

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## Highlights from the Inventor Equity Innovates Speaker Series

The second installment of the OHSU Innovates Speaker Series was held April 17 on the topic of "Promoting Inventor Equity in Patenting." The stimulating discussion was led by Stephen Sullivan, J.D., of Schwabe, Williamson and Wyatt and included OHSU panelists Carmem Pfeifer, D.D.S., Ph.D., Ruchi Thanawala, M.D., M.S., and Anne Carlson, Ph.D. If you missed the seminar, you can view a [recording of the panel](#).

## ANNOUNCEMENTS

### Trace Biosciences wins Fast Pitch Event



Congratulations to OHSU startup company [Trace Biosciences](#) and co-founder Connor Barth, Ph.D., for winning the Fast Pitch event at the Life Science Innovation Northwest conference in April. Trace Biosciences is developing novel fluorescent agents so surgeons can visualize and avoid nerves during surgery.

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### Promedix awarded Health Equity grant

Congratulations to OHSU startup company [ProMedix](#) on their recent Health Equity Flex Grant award from the Consortium for Technology and Innovation in Pediatrics. The Health Equity Flex grants support pediatric medical device innovators who can apply or adapt their existing medical device to help address health inequities in pediatric care. ProMedix was co-founded by OHSU members David Sheridan, M.D., M.C.R., and Matthew Hansens, M.D., M.C.R. See the recent [award announcement](#).

## 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](#).

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## UPCOMING EVENTS

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|                 |  |
|-----------------|--|
| <b>MAY 2</b>    | <a href="#">Bio in the High Desert</a>                           |
| <b>MAY 2</b>    | <a href="#">ITHS Biomedical Innovation Fireside Chat Series</a>  |
| <b>MAY 2</b>    | <a href="#">OBI Accelerate Happy Hour Networking</a>             |
| <b>MAY 6-10</b> | <a href="#">2024 OHSU Research Week</a>                          |
| <b>MAY 9</b>    | <a href="#">OHSU Innovation Day</a>                              |
| <b>MAY 20</b>   | <a href="#">OEN Pitch, Please</a>                                |
| <b>MAY 22</b>   | <a href="#">OBI Hybrid Lunch &amp; Learn: R&amp;D Tax Credit</a> |
| <b>JUNE 26</b>  | <a href="#">Bio on Tap</a>                                       |

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## 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 2714](#) - Systems and methods for retinal capillary oximetry

[OHSU 3286](#) - CD74 as a biomarker and therapeutic target for familial platelet (FPD) disorder

[OHSU 3133](#) - An OCT method to improve scleral lens fitting

[OHSU 3192](#) - eDentin- a tissue engineered reparative dentin

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## **Newly Licensed or Optioned OHSU Technologies**

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

[OHSU 1740](#) - Tinnitus Functional Index

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

[OHSU 3191](#)- Workplace Mental Health Support Training for Leaders (Leslie Hammer, Ph.D.)

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## **U.S. Patents Issued**

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

[Patent 11,944,382](#) - Systems and Methods for Bulk Motion Compensation in Phase-based Functional Optical Coherence Tomography

[Patent 11,945,855](#) - Recombinant Polypeptides Comprising Modified MHC Class II DRa1 Domains and Methods of Use

[Patent 11,937,878](#) - Systems And Methods for High Dynamic Range Optical Coherence Tomography Angiography (HDR-OCTA)

[Patent 11,932,626](#) - 2-pyrimidone Analogs as Potent Antiviral Agents Against Alphaviruses

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## **Researchers in New Industry Funded Research Projects**

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

[Hiroyuki Nakai, M.D., Ph.D.](#) - Methods for AAV vector delivery to the pancreas

## SPONSORS

Thank you to our current sponsors for their support of OHSU Innovates!



Questions? Contact us at [innovates@ohsu.edu](mailto:innovates@ohsu.edu)

This bi-monthly publication is created in collaboration with OHSU Technology Transfer, OHSU Collaborations and Entrepreneurship, Oregon Clinical and Translational Research Institute, School of Medicine and the Knight Cancer Institute.

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