

## User Fee Guide for Snyder Members Human Organoid Innovation Hub (HOIH)

The HOIH provides all the necessary training and resources to grow human and mouse organoid systems and offers guidance in designing and executing experiments using this model system. We can provide 3D organoids and 2D organoid monolayers as well as expertise to successfully experiment with our organoid systems. Our fees represent a subsidized cost for Snyder Institute users. Please see below for more information on the breakdown of charges.

All appropriate ethics approvals must be obtained by individual laboratories in accordance with the Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (human tissues), Animal Care Committees, and University of Calgary's guidelines.

Free  
Consultation

Organoid  
Culture  
Training

Experiment-  
Ready Plates

Custom  
Assay  
Development

Continual  
Project  
Support

### Why does organoid research cost this much?

Organoid research represents a significant investment, yet it holds immense promise as the **next frontier in basic and translational science**.

The HOIH helps you mitigate costs by providing expert guidance to maximize efficiency and minimize reagent waste, thereby reducing the time and expense typically associated with troubleshooting organoid techniques. For grant-driven pilot studies, resubmissions, or standalone experiments, our experiment-ready plates provide exceptional value and convenience.

However, for cost-conscious research teams whose trainees and staff are experienced in traditional cell culture and can plan effectively, we also encourage a self-driven approach. They may train with us and with an initial seed of culture, they can generate subsequent experiment passages in their own labs. Of course, we are happy to continue to provide support and reagents over the project timeline. This strategy is more economical than ordering experiment-ready plates for every experiment.

We maintain high-quality standards in our organoid services, yet strive to remain **more affordable than many peer organoid core facilities** – making it easier for you to advance cutting-edge organoid science as a Snyder Institute member.

- UC San Diego: <https://networkmedicine.ucsd.edu/centers/humanoid/rates.html>
- University of Chicago: <https://voices.uchicago.edu/organoids/rates/>
- University of Pittsburgh: <https://www.organoids.pitt.edu/services-and-pricing>
- Baylor College of Medicine: <https://www.bcm.edu/departments/molecular-virology-and-microbiology/research/centers-and-cores/3d-organoid-core/services-and-fees>

## TRAINING

All training is **in-person and hands-on**.

- Snyder Institute members, staff, and trainees may **shadow HOIH staff** for organoid passaging and monolayer seeding *free of charge* (upon request).
- Resulting human organoids and monolayers can be purchased separately (culture plating fee applies).
- Specific human cell lines cannot be selected unless a **Cell Line Reanimation fee** is paid. (See: *Experiment-ready Plates*)

HUMAN ORGANOID TRAINING	PRICE <i>(per person)</i>	NOTES & INCLUSIONS
<b>Isolating Intestinal Crypts &amp; Passaging 3D Organoids</b>	\$525	<ul style="list-style-type: none"> <li>• HOIH provides tissue</li> <li>• Includes isolation + passaging sessions</li> <li>• Organoids maintained at HOIH until passaging the following week</li> <li>• 2 sessions, 3-4 hours each</li> </ul>
<b>Thawing &amp; Passaging 3D Organoids</b>	\$420	<ul style="list-style-type: none"> <li>• HOIH provides cryovial</li> <li>• Includes thawing + passaging sessions</li> <li>• Organoids maintained at HOIH until passaging the following week</li> <li>• 2 sessions, 3-4 hours each</li> </ul>
<b>3D Organoid Passaging</b>	\$315	<ul style="list-style-type: none"> <li>• HOIH provides 3D organoids</li> <li>• 1 session, 3 hours</li> </ul>
<b>2D Monolayer Seeding</b>	\$315	<ul style="list-style-type: none"> <li>• HOIH provides 3D organoids for seeding</li> <li>• 1 session, 3 hours</li> </ul>
MOUSE ORGANOID TRAINING	PRICE <i>(per person)</i>	NOTES & INCLUSIONS
<b>Isolating Intestinal Crypts &amp; Passaging 3D Organoids</b>	\$360	<ul style="list-style-type: none"> <li>• User provides tissue or HOIH provides tissue for an additional cost of \$100</li> <li>• Includes isolation + passaging sessions</li> <li>• Organoids maintained at HOIH until passaging the following week</li> <li>• 2 sessions, 3-4 hours each</li> <li>• Resulting domes can be purchased at \$4.00/dome</li> </ul>
<b>3D Organoid Passaging</b>	\$210	<ul style="list-style-type: none"> <li>• HOIH provides 3D organoids</li> <li>• 1 session, 3 hours</li> <li>• Resulting domes can be purchased at \$4.00/dome</li> </ul>
<b>2D Monolayer Seeding</b>	\$260	<ul style="list-style-type: none"> <li>• HOIH provides 3D organoids for seeding</li> <li>• 1 session, 3 hours</li> <li>• Resulting inserts can be purchased at \$25.00/dome</li> </ul>

## EXPERIMENT-READY PLATES

All orders include the Cell Line Reanimation fee to establish cell lines, and appropriate culture plating fees.

SERVICE	PRICING	NOTES & INCLUSIONS
<b>Cell Line Reanimation</b>	Healthy: \$250 Diseased: \$300	<ul style="list-style-type: none"> <li>Establishment of culture from cryopreserved organoid cell lines (normally \$500).</li> <li>Waived if orders are made from same cryovial.</li> <li>Maintenance Fee (\$100/week per line): if lines are requested to be maintained without an order in the week. Maintenance Fee is not charged on weeks orders are plated.</li> </ul>
<b>Human 3D Organoids (min. 4 domes)</b>	Healthy: \$30/dome Diseased: \$35/dome	<ul style="list-style-type: none"> <li>Includes initial seeding &amp; first feeding.</li> <li>Plates released once cells are seeded.</li> </ul>
<b>Human 2D Monolayers (min. 4 inserts)</b>	Healthy: \$80/insert Diseased: \$100/insert	<ul style="list-style-type: none"> <li>Includes HOIH maintenance for up to 2 weeks, until desired confluency.</li> </ul>
<b>Human ALI Cultures (min. 4 inserts)</b>	Healthy: \$120/insert Diseased: \$140/insert	<ul style="list-style-type: none"> <li>Includes HOIH maintenance to Day 21 post-ALI.</li> </ul>

*As of July 2024, the HOIH does not supply ready-to-use Mouse 3D organoids and 2D monolayers. Please inquire about receiving mouse organoid training.*

## CULTURE MEDIA

All media is supplemented with antibiotics and reagents for specific for each organoid culture, unless otherwise requested. Media should be used within 1 week of formulation.

MEDIA	PRICING	NOTES & INCLUSIONS
<b>STEMCELL Intesticult™ Organoid Growth Medium (OGM)</b>	\$8.00/mL	<ul style="list-style-type: none"> <li>Optimized for ongoing maintenance of human organoids and monolayers</li> <li><a href="https://www.stemcell.com/products/intesticult-organoid-growth-medium-human.html">https://www.stemcell.com/products/intesticult-organoid-growth-medium-human.html</a></li> </ul>
<b>STEMCELL Intesticult™ Organoid Differentiation Medium (ODM)</b>	\$8.00/mL	<ul style="list-style-type: none"> <li>Optimized for epithelial cell differentiation of human organoids and monolayers</li> <li><a href="https://www.stemcell.com/products/intesticult-organoid-differentiation-medium-human.html">https://www.stemcell.com/products/intesticult-organoid-differentiation-medium-human.html</a></li> </ul>
<b>HOIH Mouse Culture Medium</b>	\$1.50/mL	<ul style="list-style-type: none"> <li>Optimized for ongoing maintenance of tissue specific mouse organoids and monolayers</li> </ul>

WELL TYPE	SUGGESTED VOLUMES
<b>48-well plate</b>	300 µL
<b>24-well plate</b>	500 µL
<b>Transwell inserts (24-well size)</b>	300 µL – insert 500 µL – well

## BIOASSAY/CUSTOM CULTURE DEVELOPMENT

The cost depends on the scope of the project and is determined on a per-project basis, including materials, time invested into assay development (if applicable), cost of specialized reagents, etc. Please contact us at [hoih@ucalgary.ca](mailto:hoih@ucalgary.ca) for a **free** consultation.

### Past projects developed at the HOIH:

- Porcine (pig) organoids
- Mucus harvesting from goblet cells
- Knockout mouse organoid culture
- Inside-out 3D organoid culture
- Organoid permeability assay

## SUPPLEMENTARY COST GUIDE

<b>MEDIA</b>	\$1.50 per mL mouse media
	\$8.00 per mL human media (OGM or ODM)
	\$0.14 per $\mu$ L Y27632
<b>STAFF</b>	\$50 per hour for supplementary experimental services requested
<b>REAGENTS</b>	\$0.34 per mL Crypt Isolation Buffer
	\$0.73 per mL Gentle Cell Dissociation Reagent
	\$0.29 per mL DMEM+1% BSA
	\$6.50 per mL 3dGRO Organoid Freezing Media
	\$0.32 per mL 0.25% Trypsin
	\$0.16 per mL ADF
	\$1.45 per mL Washing Media
	\$2.00 per plate 24/48-well plate
\$4.85 per 0.4 $\mu$ m/3.0 $\mu$ m pore insert	
\$57.75 per mL Matrigel	
<b>ORGANOID CRYOVIALS</b>	\$150 per frozen mouse cryovial
	\$1000 per frozen human cryovial