

**HLI Fall Quarterly Meeting  
Sep 20<sup>th</sup> 2021**



# Land Acknowledgement

Acknowledge that **we are gathered on the traditional, ancestral and unceded territory of** the Coast Salish peoples—Sk̓wx̓wú7mesh (Squamish), Stó:lō and Səlílwətaʔ/Selilwitulh (Tsleil-Waututh) and xʷməθkʷəy̓əm (Musqueam) Nations

**Sept 30<sup>th</sup> - National Truth and Reconciliation Day**

UBC (and HLI) are recognizing this day as a holiday



## **Quarterly Meeting 9:00 – 10:00 am Zoom- Sep 20<sup>th</sup> 2021**

**Adoption of Minutes from June 21<sup>st</sup> 2021**

### **Director's Update**

**Dr. Don Sin**

**Centre News**

### **Operational Updates**

**Chris Robinson**

**Claire Smits**

**Dan Vikse**

**Dr. Rachel Eddy**

**Ivan Leversage**

**Dr. Scott Tebbutt**

**Naomi Potter**

**Dr. Vivienne Chan**

**Dr. Don Sin**

**Human Resources News**

**Operations Update**

**Freezer Leasing Program**

**MRI Imaging Core Facility**

**Health & Safety, Education and Events**

**Education Director Update**

**HLI Trainee Association News**

**Grants and Award Successes**

**Team Player of the Quarter winner**

**Adoption of Minutes  
from June 21<sup>st</sup> 2021  
Quarterly Meeting**



# Director's Update

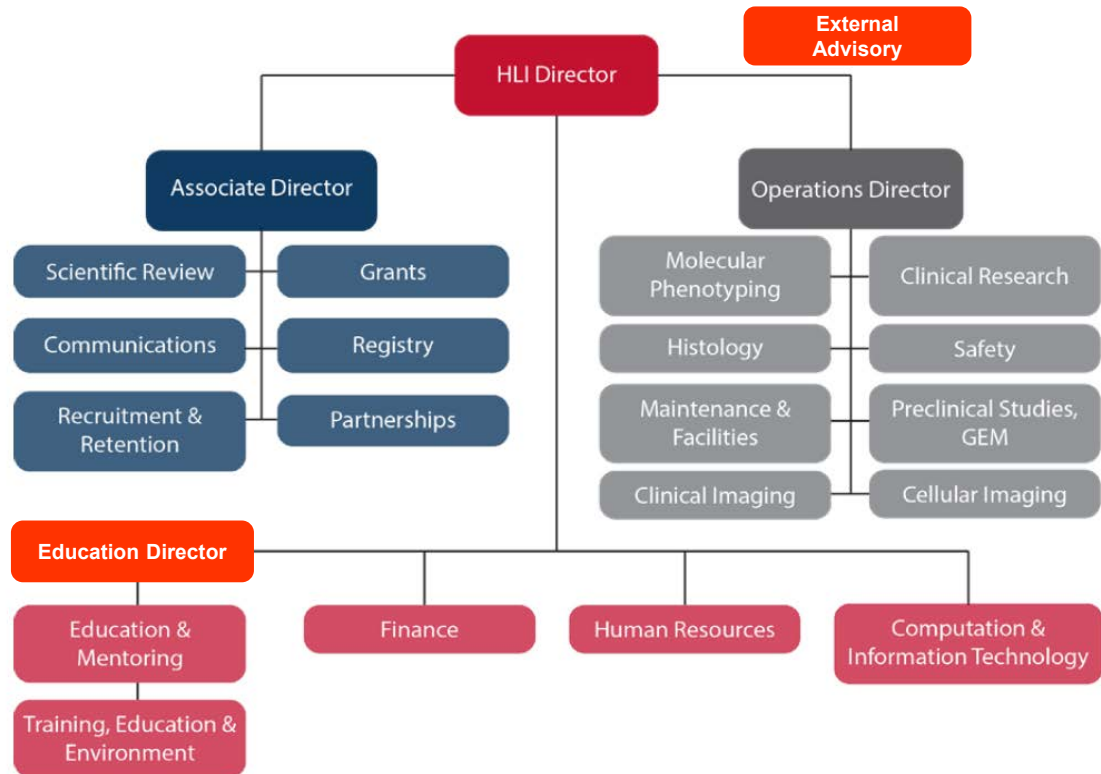
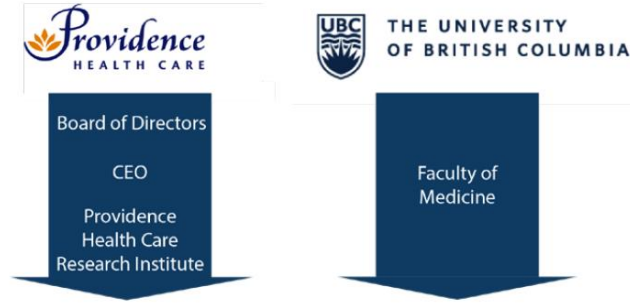


# Key Takeaways From External Review of Biobanking

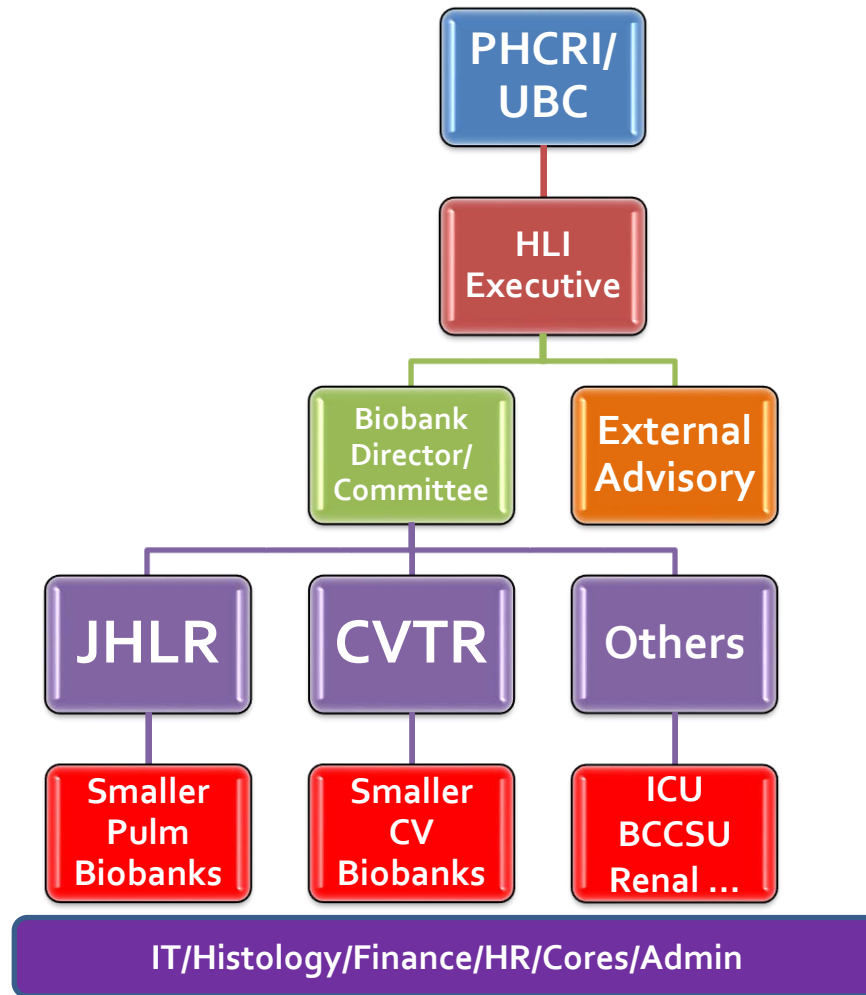
- Retain “independence” of JHLR and CVTR
- New Governance Structure
  - Oversight
  - Integration
- Support and integrate “smaller” biobanks into an overarching biobanking platform



# Current Governance Structure at HLI

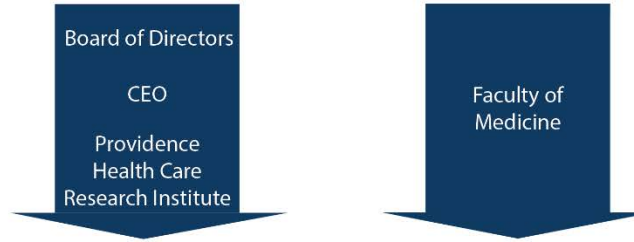


Proposed Governance Structure of  
Bioregistries @HLI

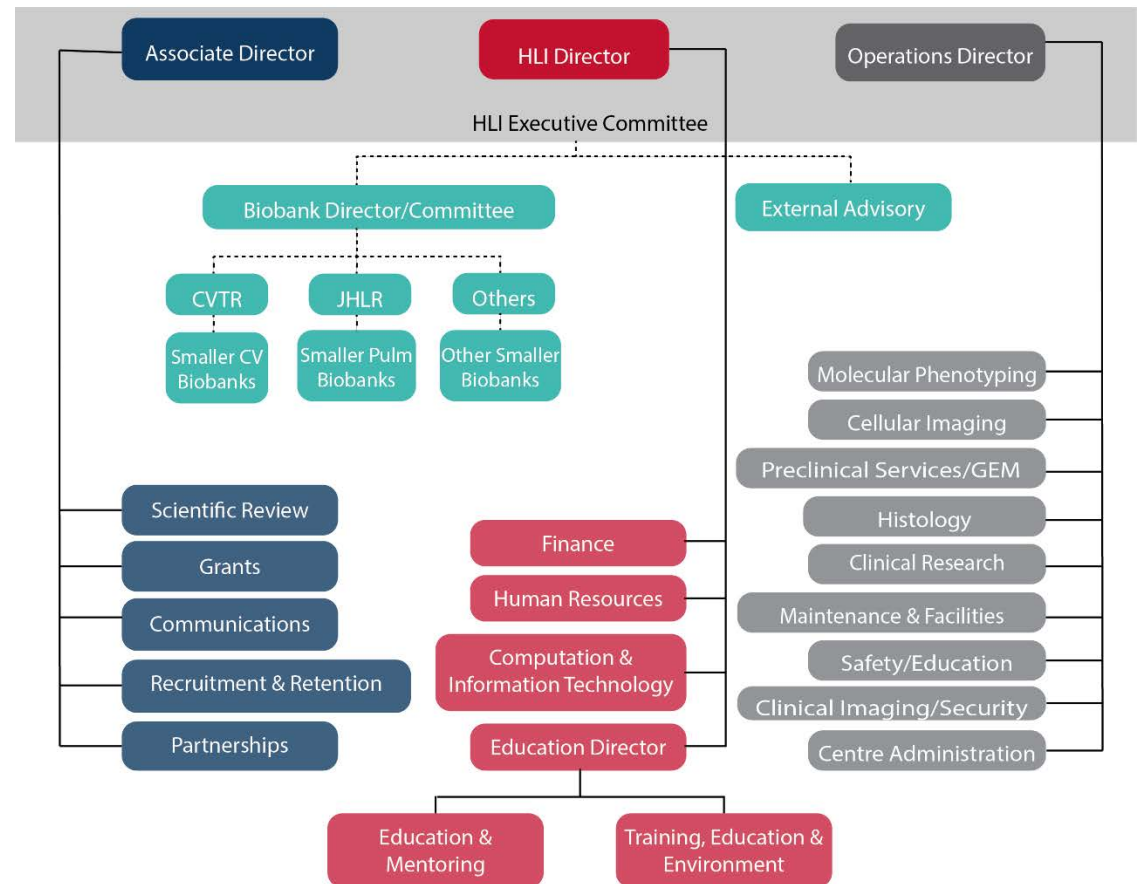




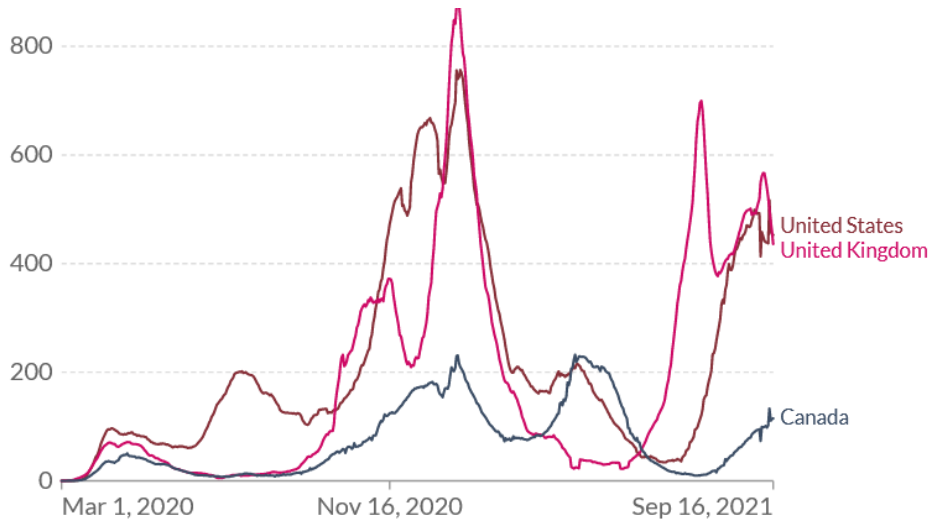
# Proposed Governance Structure at HLI



Centre for  
**Heart Lung Innovation**  
UBC and St. Paul's Hospital



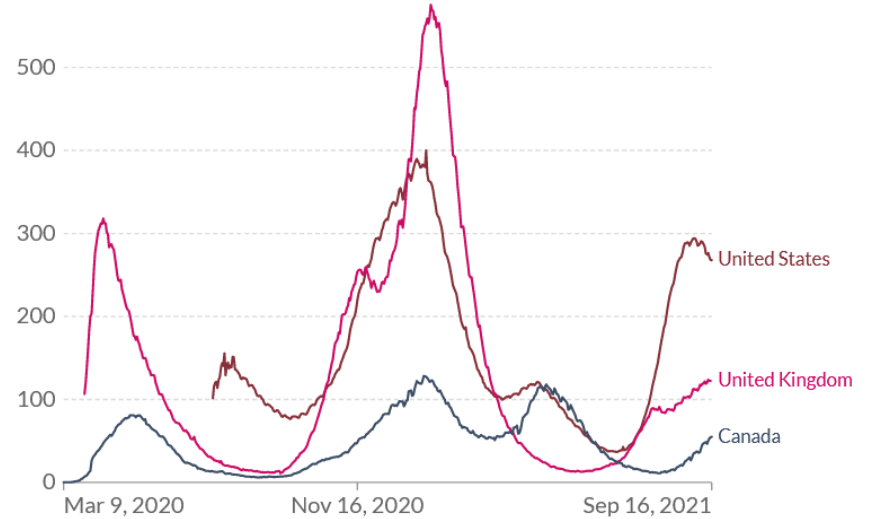
# Cases per Million



Source: Johns Hopkins University CSSE COVID-19 Data

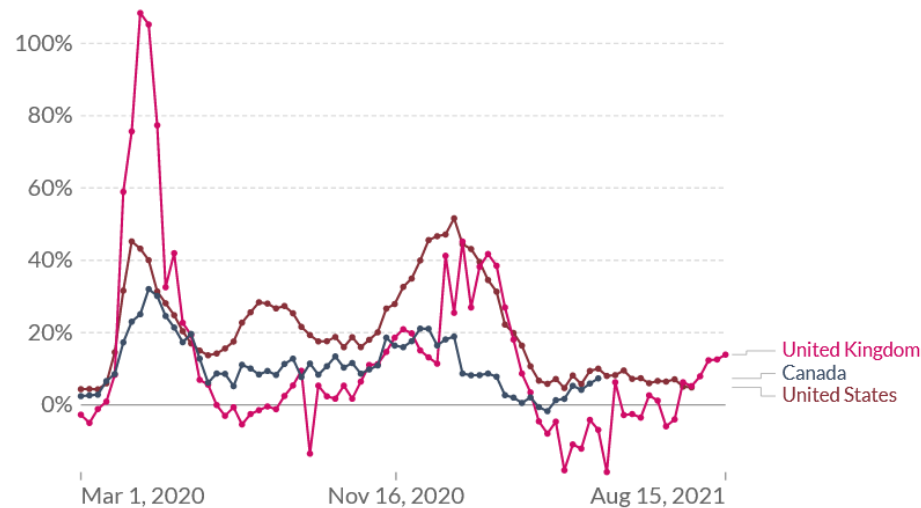
# Number of COVID-19 patients in hospital per million people

[LINEAR](#) [LOG](#)



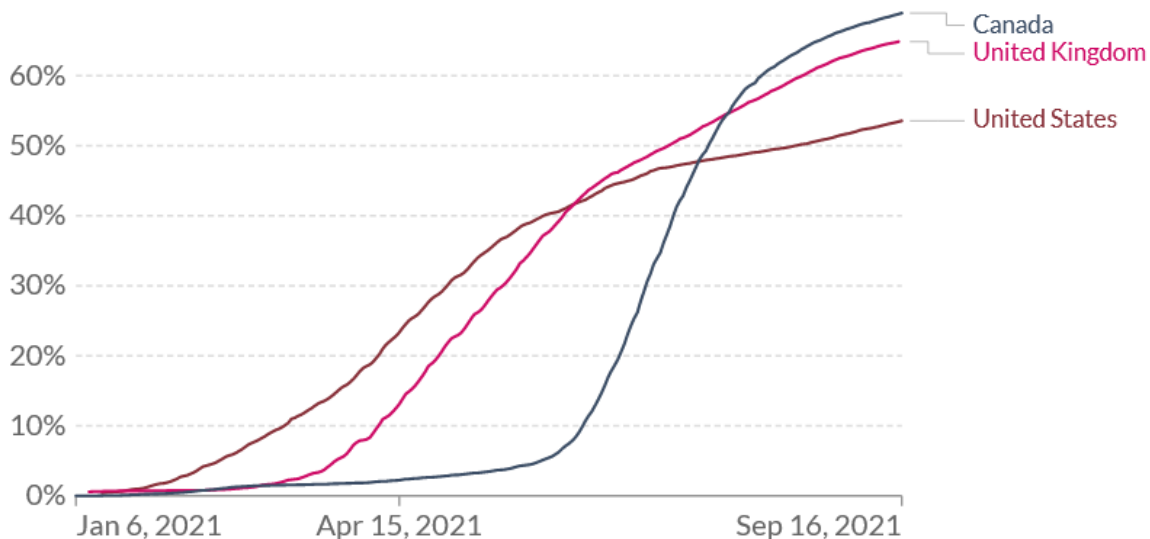
# Excess mortality: deaths from all causes compared to previous years

Shown is how the number of weekly or monthly deaths in 2020–2021 differs as a percentage from the average number of deaths in the same period over the years 2015–2019. This metric is called the P-score. The reported number of deaths might not count all deaths that occurred due to incomplete coverage and delays in death reporting.

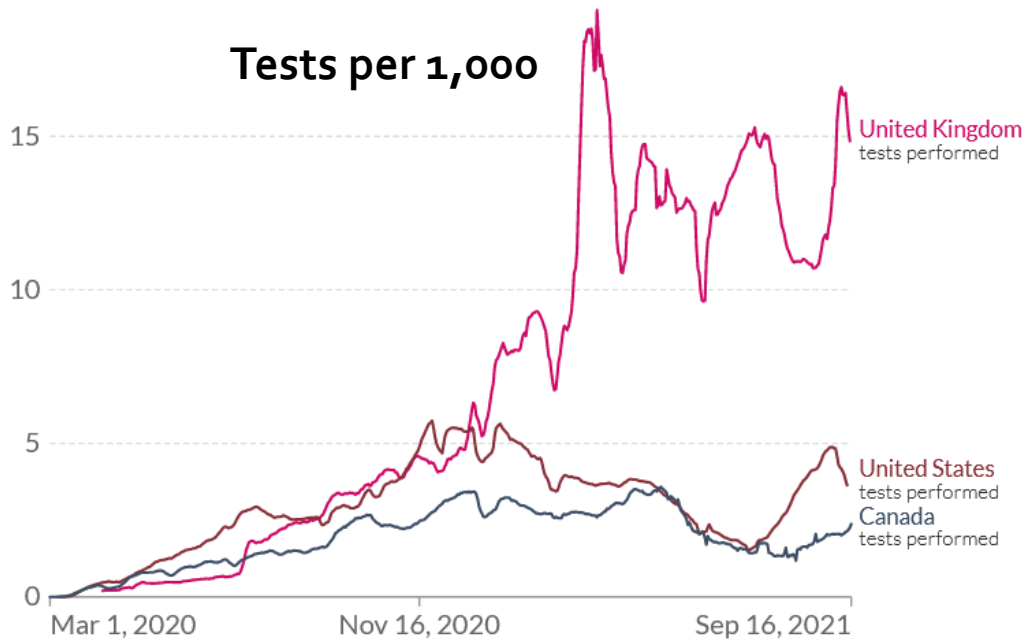


# Fully Vaccinated

LINEAR LOG



# Tests per 1,000



# HLI OPERATIONS



# HR Updates

- **Welcome to all the new Faculty, Staff and Student members of HLI!!**
- **Principal Investigators**



Left to right:

Ilker Hacihaliloglu, Graeme Koelwyn, Stephanie Sellers, Ying Wang



# HR Updates

- **HLI Associate Members**



Left to right: Emmanuel Osei, Mohsen Sadatsafavi



# COVID -19 Rapid Testing Program

- Please ensure you have completed your online, confidential declaration of your vaccination status.



# Workday Approvals

- This is a gentle reminder to please approve your HR tasks as soon as possible when you receive them.

Faculty members have multiple security roles and you need to approve the same transaction a few times before it is completed. The delay in approvals slows down all transactions and prevents students/staff from being paid on-time.





# Remote work requests

- Please ensure you check in with HR to arrange formal agreements for staff who continue to work from home. Any hybrid arrangements must be approved by your manager or PI and must be set up in Workday for UBC staff.



# HLI Reception

- New expanded hours 8:00 am to 3:30 pm, closed from 12-1 pm
- All visitors are to be directed to reception where they will be asked to fill out a COVID-19 visitor screening form



# Canada Foundation for Innovation

HLI has submitted an EOI (Expression of Interest) for an Innovation Fund CFI application for which the title is:

- **Single cell precision imaging for spatial imaging in heart lung disease \$8.3M**

HLI has submitted an NOI (Notice of Intent) for a CFI -Major Science Initiative (CFI-MSI)

- This application includes funding over 6 years for service contracts, salaries for scientific and support personnel, infrastructure. **Total ask \$7.9M**



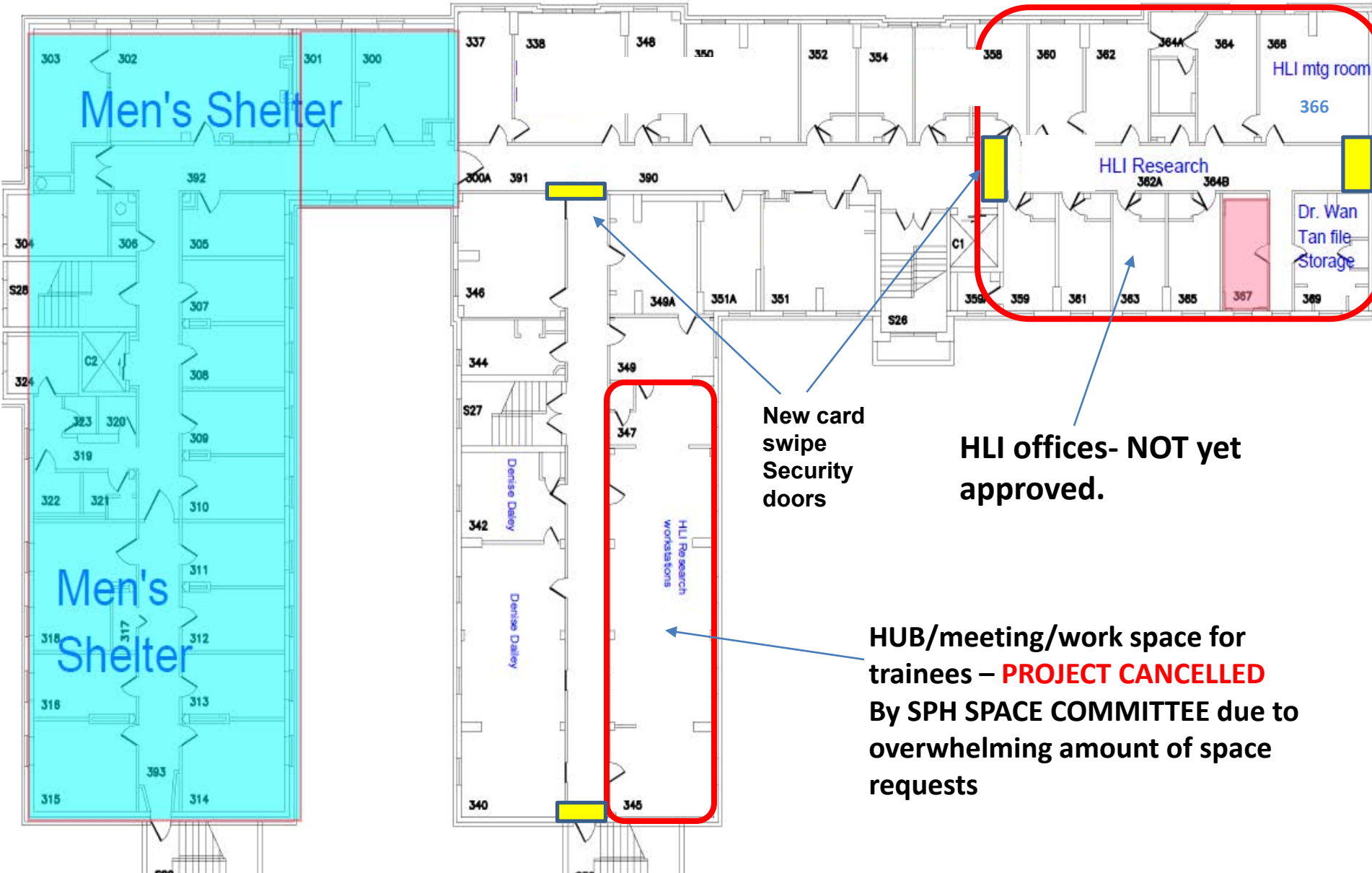
# STRATEGIC PLAN – CURRENTLY IN **PHASE 2 OF 4**



	PHASE 1 Situation Assessment	PHASE 2 Development	PHASE 3 Activation	PHASE 4 Implementation & Sustainment
<b>Timing (Estimate)</b>	<b>3 -4 weeks</b> June – July 2021	<b>6 – 8 weeks</b> Sep - Oct 2021	<b>3 – 4 weeks</b> Nov - Dec 2021	<b>Launch Date +</b> January 2022
<b>SDS Activities</b>	<ul style="list-style-type: none"> <li>Review peer plans and background documentation</li> <li>Support development of interview questionnaire, and survey</li> <li>Review summary of key findings</li> <li>Develop SWOT &amp; distill key themes</li> </ul>	<ul style="list-style-type: none"> <li>Facilitate WG sessions and lead the refinement/development of the vision, mission, strategic themes, and core areas</li> <li>Provide direction for success statements, goals, actions and metrics – review and advise</li> </ul>	<ul style="list-style-type: none"> <li>Provide direction for prioritization of Yr 1 goals &amp; actions; (survey if req'd)</li> <li>Provide direction and templates for Yr 1 action plan, metrics plan</li> <li>Review and advise on draft action and metrics plans</li> </ul>	<ul style="list-style-type: none"> <li>Check in on launch and mobilization progress</li> </ul>
<b>Client Activities</b>	<ul style="list-style-type: none"> <li>Review findings from peer scan</li> <li>Develop stakeholder engagement plan</li> <li>Conduct interviews and / or survey &amp; summarize key findings</li> </ul>	<ul style="list-style-type: none"> <li>Co-create/refine vision, mission, values, core areas and strategic themes through WG sessions</li> <li>Draft success statements, goals and actions</li> <li>Validate framework with stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>Prioritize Yr 1 goals &amp; actions</li> <li>Develop Yr 1 action and metrics plans</li> <li>Develop communication materials, if req'd</li> </ul>	<ul style="list-style-type: none"> <li>Launch plan</li> <li>Mobilize Year 1 Action Plan</li> <li>Track progress</li> </ul>
<b>Approach (Estimate)</b>	<ul style="list-style-type: none"> <li>2 x 60 minute planning and review sessions*</li> <li>1 x 60 minute kick-off meeting</li> </ul>	<ul style="list-style-type: none"> <li>4- 5 x 60 minute sessions (WG)</li> <li>3 x 60 minute planning and review sessions*</li> <li>Review by email</li> </ul>	<ul style="list-style-type: none"> <li>2 x 60 minute planning and review sessions*</li> <li>Review by email</li> </ul>	<ul style="list-style-type: none"> <li>Check in and support by email or ad-hoc meeting*</li> </ul>

\*SDS & Project Leads

# Comox 3<sup>rd</sup> floor



New card swipe Security doors

HLI offices- NOT yet approved.

HUB/meeting/work space for trainees – **PROJECT CANCELLED** By SPH SPACE COMMITTEE due to overwhelming amount of space requests

# HII Freezer Leasing Program

The Leasing Program has begun !

Purpose of the program is to create a more efficient, economical and space saving freezer management system

## Key points

- PI's will no longer have to scramble for funds to purchase their own freezers. (20.5K)
- PI's and research staff will no longer have to defrost freezers and move samples to a backup freezer if their freezer fails.
- Once samples are prioritized and purged, space needs may be significantly reduced.
- HII staff (maintenance team) will do defrosting, assist with moving samples, oversee repairs and replacements.

# HLI Freezer Leasing Program – How it will work

- Starting in Sep 2021, based on freezer age (old first) a few PI's will be selected (as leasing program freezers are purchased/become available) to join the program. PI's in **old** freezers will transfer samples to new leased freezers.
- A buy back program for newer freezers will also be implemented, with a depreciated price offered (16 yrs zero value)
- This will provide an opportunity to review & purge unidentified, damaged or old samples and eliminate having to find funds to purchase freezers.
- Freezer leasing rates will include standard racks ( extra cost for custom racks, boxes or dividers)
- HLI staff will monitor, defrost and advise of ongoing space use and needs.



# Cost comparison for multi-freezer owners

Current Program		Leased Program	
Needs to Purchase a freezer	\$ 18,000.00	Needs to Purchase a freezer	N/A
Needs to Purchase Racks	\$ 2,500.00	Needs to Purchase Racks	N/A
April 2022 Freezer Bill	\$ 2,000.00	April 2022 Freezer Bill	\$ 2,400.00
Year 2	\$ 2,000.00	Year 2	\$ 2,400.00
Year 3	\$ 2,000.00	Year 3	\$ 2,400.00
Year 4	\$ 2,000.00	Year 4	\$ 2,400.00
Year 5	\$ 2,000.00	Year 5	\$ 2,400.00
Year 6	\$ 2,000.00	Year 6	\$ 2,400.00
Year 7	\$ 2,000.00	Year 7	\$ 2,400.00
Year 8	\$ 2,000.00	Year 8	\$ 2,400.00
Year 9	\$ 2,000.00	Year 9	\$ 2,400.00
Year 10	\$ 2,000.00	Year 10	\$ 2,400.00
Year 11	\$ 2,000.00	Year 11	\$ 2,400.00
Year 12	\$ 2,000.00	Year 12	\$ 2,400.00
Year 13	\$ 2,000.00	Year 13	\$ 2,400.00
Year 14	\$ 2,000.00	Year 14	\$ 2,400.00
Year 15	\$ 2,000.00	Year 15	\$ 2,400.00
Needs to Purchase a freezer	\$ 18,000.00	Needs to Purchase a freezer	N/A
<b>Total</b>	<b>\$ 68,500.00</b>	<b>Total</b>	<b>\$ 36,000.00</b>

Freezer cost comparison based on average lifespan of a freezer functioning for 15 years





# Freezer Inventory – Age and Owners

Freezer #	Age	Owner
1	4	Laksman
2	3	McManus (PROOF)
3	18	Dorscheid/Russell
4	4	Thambo
5	4	Emergency Back-up
6	12	McManus (PROOF)
7	18	Lung Registry
9	14	Lung Registry
10	5	Hogg
11	26	Lung Registry
12	25	CV Tissue Registry
13	23	Walley/Russell
14	5	CV Tissue Registry/Histology
16	6	McManus
18	6	Sin
19	5	Bernatchez/Seow
20	6	Hackett
21	18	Tan
22	7	Francis/Brunham
24	9	Yang /Luo
26	4	Providence Airway Centre (Sin)
27	25	Lung Registry/ CV Registry
28	5	Emergency Back-up
29	18	CV Tissue Registry

Freezer #	Age	Owner
30	3	Core 1/ Tebbutt
32	4	Emergency Back-up
36	4	CanPREDDICT (Levin)
37	13	CanPREDDICT (Levin)
38	16	Walley
39	11	Walley
40	2	Levin
41	7	Emergency Back-Up
42	12	Lung Tissue Registry
43	12	Tan
45	11	Dorscheid
46	1	Boyd
47	10	Leung
48	10	McManus (PROOF)
49	9	McManus (PROOF)
50	8	Lung Tissue Registry
51	8	Lung Tissue Registry
52	6	vanEeden
53	6	Sin

Freezer #	Age	Owner
54	8	Krahn
55	6	Brunham
56	7	Sin
57	7	Sin
58	7	Leung
59	7	Sin
60	5	Lung Tissue Registry
61	7	Ryerson
65	7	Quon
66	3	Boyd
67	3	McManus
68	2	BCCSU
69	2	BCCSU
70	2	Quon
71	2	Laksman
72	1	Laksman
73	0	Emergency Back-up
74	0	BCCSU



# Freezer Leasing Program FAQ's

- **If I only need part of a freezer, what is the rate ?**

\$100 per rack, \$2400 for a full freezer

- **If I provide an ERT person annually, do I still get a credit ?**

Yes, you will get a 1500 credit annually

- **Are freezer rates changing ?**

In order to implement the freezer leasing program, we will be standardizing rates, eliminating COVID discounts and first freezer discounts

- **I want to be part of the buy-back program and sell my freezer to you and move into a leased freezer, how do I do that ?**

We will start by moving a limited # of PI's per year, based on our ability to buy freezers or acquire buy-back freezers. Let Dan Vikse know of your interest and he will put you on the list and let you know when you will be moved. Start purging and cleaning out your freezers NOW.



# New 3T MRI Core at HLI

- REB- and Health Canada-approved for  $^{129}\text{Xe}$  inhalation
- $^{129}\text{Xe}$  hyperpolarizer installed Sept 2021
- Ongoing image acquisition testing
- Contact [Rachel.eddy@hli.ubc.ca](mailto:Rachel.eddy@hli.ubc.ca)

*September 10 2021*



# Updates

Health & Safety  
Education





# **Until further notice Masks are required**



- Even if you have been vaccinated, you are still required to wear masks in the hospital until further notice. This includes HLI - hallways, corridors, lunchrooms, stairwells.
- If you are working alone in a office you can take it off. If you have visitors, all must wear a mask.
- If you need to work in the lab in close proximity, wear a mask and limit time as able

**Non surgical face masks are available at reception,  
and at hospital main entrance and parking**



# Health & Safety

- Fume Hood Certification – Completed July 16, 2021
- Health & Safety Week – July 26th - 30<sup>th</sup> (71 attendees)
- Liquid Nitrogen Training – Currently underway – Training video Coming Soon – will be posted on the intranet
- HLI Orientation – Sept 10<sup>th</sup> (15 attendees)
- Tissue Culture Training – Sept 20<sup>th</sup> after QM
- Reminder Please complete UBC's COVID-19 vaccination status declaration - Visit <https://rapidtesting.covid19.ubc.ca>



# Health & Safety

- UBC's Occupational & Preventive Health (OPH) unit provides confidential and free programs and services to help protect the health and safety of staff, faculty, and paid students working both on and off campus, including UBC-Okanagan and hospital sites.
- OPH is available to all staff, faculty, and paid students who have questions or concerns about their health and safety in the workplace, including questions around COVID-19. To book an appointment with one of our Nurses, please contact OPH at [oph.info@ubc.ca](mailto:oph.info@ubc.ca) or 604-827-4713.



# Health & Safety

## OPH can help with

- Immunization review with an Occupational Health Nurse
- Vaccinations, tests, and screenings based on workplace exposure risks
- Clearance to work
- Medical clearance for respirator fit testing
- Post-exposure follow-up
- Pregnancy planning and resources
- Occupational allergy care
- Assessments of workplace risks for exposure to infectious agents (i.e. Hepatitis B Virus)
- Consultations with the OPH Physician
- Specialist referrals





# Health & Safety

- **PLEASE CONTINUE TO :**
- Do your daily health assessment. If you have signs of illness, stay home.
- Wipe down frequently touched areas with disinfectant spray or wipes in your area
- Wash your hands frequently and avoid touching your face
- Please ensure you stay safe



# Education Update

- **Summer Student RIP's** – 473 attendees over 11 sessions  
Thanks to the Chairs, summer students and all who attended
- **HLI Friday Seminar** – need speakers 8 spots available
- **Research in Progress** – now underway Spring session is under construction
- **PATH 518/MEDI 560 – Pulmonary Pathophysiology** – now underway
- **HLI High School Student Week** – Fall 2021 session has been cancelled hoping to run a Spring 2022 session

**Dr. Scott Tebbutt**  
**Education Director**



# AER KT Project Update

- We've hired Gurprit Randhawa, as project coordinator 😊



- Executive MBA (Health & Safety Leadership), UFred
- Ph.D. Health Informatics (EHR Optimization), UVic
- B.Sc. & M.Sc. Health Informatics (E-Prescribing), UVic

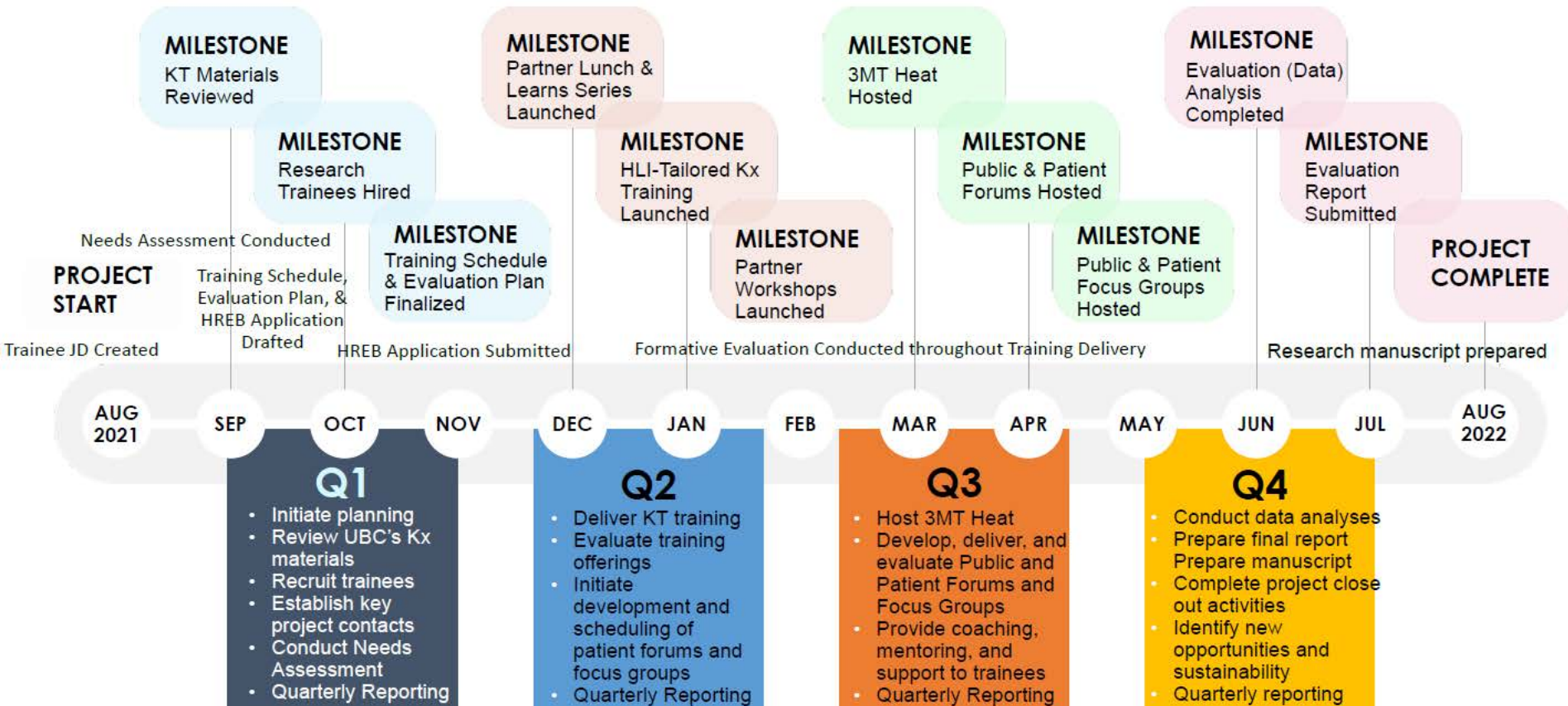
- Had first steering committee meeting & recruited first patient & family partner (PFP)
- Interviewing short-list of applicants for Graduate/Postdoc Research Assistants (thanks to all who applied!)
- Initial needs assessment survey designed for KT training program at HLI
  - Deadline TODAY
  - Many thanks for all responses so far!



# Knowledge Mobilization Training Project Roadmap

Knowledge Translation and Mobilization: Reimagining Graduate Student Education to Create the Next Generation of Health Professionals, Advocates, and Communicators

Version 0.2 – Updated August 9, 2021



# **HLI Trainee Association**

## **Naomi Potter**



# HLI Trainee Association

- Trainee Research Week Recap:
  - 49 Trainee presenters
  - Gather Platform for Poster Sessions
  - Dr. Bruce McManus and Dr. Peter Paré Lecturers: Dr. Sam Wadsworth and Dr. Mireille Ouimet
  - Sponsors: St Paul's Foundation, PHCRI, and MSFHR
  - Total of 351 sign-on's throughout the week (average of 60 per day and 49 at poster session)
  - Sci-ku tradition continued
  - **Thank you to everyone involved!**



HLI Trainee Research Week 2021 Prize Winners



# HLI Trainee Association

- Graduate student peer mentorship program piloting this fall
- Involved in Knowledge Translation Mobilization training project
- Had our 1<sup>st</sup> in-person social since the pandemic!





# Grants and Awards

June 15, 2021 to Sept 20, 2021

# PI Grants and Awards



## **CIHR Project Grant (Spring 2021)**

### **Tillie Hackett**

The contribution of sex differences to small airways disease in chronic obstructive pulmonary disease

*\$730,576*



## **CIHR Project Grant (Spring 2021)**

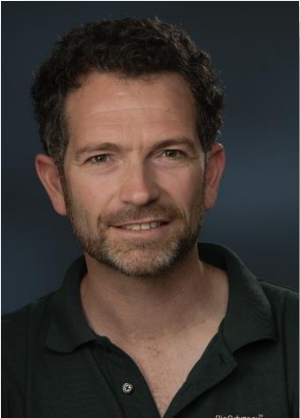
### **Don Sin**

A Novel Approach to Discover Therapeutic and Biomarker Targets and Enable Precision Health in COPD: TORCH (Towards Omics and imaging to Revolutionize COPD Health)

*\$952,426*



# PI Grants and Awards



## **CIHR COVID Research Gaps and Priorities** **Scott Tebbutt**

Identifying host molecular endotypes associated with diverse COVID-19 outcomes and new variants in a longitudinal multiomics cohort study of 1000 patients  
*\$460,420*



## **CIHR COVID Research Gaps and Priorities** **Don Sin**

Biomarker Discovery for the Post-COVID Pulmonary Syndrome  
*\$499,500*



# PI Grants and Awards



## **BC Knowledge Development Fund**

**Don Sin**

Enabling Precision Health in COPD

*\$185,935*



**FoM Distinguished Achievement Award for Overall Excellence in research, teaching, and service (mid career category)**

**Jordan Guenette**



# PI Grants and Awards



## **CIHR Team Grant: Personalized Health**

**Don Sin (co-PI); Mohsen Sadatsafavi (NPA)**

IMplementing Predictive Analytics toward efficient COPD Treatments (IMPACT)

\$1,986,404



## **CHEST Foundation**

**Stephen Milne**

The Oral Metagenome in COPD: Towards a Biomarker of Exacerbation Risk

*\$30,000 USD*



# PI Grants and Awards



## **UBC Collaborative Research Mobility Awards** **Janarthanan Sathananthan, Stephanie Sellers**

Ex-vivo Testing of Cardiac Interventional Techniques and  
Clinical Validation of Novel Cardiovascular Function  
Measurements

*\$5,000*

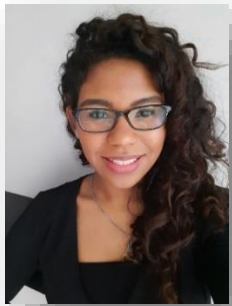


# Trainee Grants and Awards

## MSFHR Research Trainee

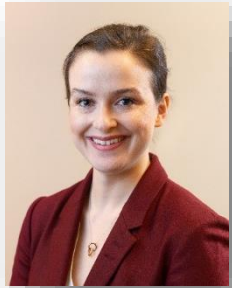
### **Ana Hernandez Cordero (Leung and Sin)**

Understanding the link between lung genomics, transcriptomics, and sex differences in COPD



### **Kate Milne (Guenette)**

Investigating sex differences in dyspnea across the spectrum of chronic obstructive pulmonary disease severity



### **Lara Utsch Mendes Gouveia (Granville)**

Defining novel roles for granzyme K in allergic airway inflammation



# Trainee Grants and Awards



**Shanay Niusha (Tebbutt)**

**FoM Graduate Award (\$750)**



**Kate Huang (Brunham)**

**FoM Graduate Award (\$3,250)**

Investigating titin truncating variants and arrhythmia using patient iPSC-derived cardiomyocytes



**Kingsley Nwozor (Hackett)**

**MITACS PhD Studentship**





# Trainee Grants and Awards

## Debora Petry-Moecke (Camp)

### UBC President's Academic Excellence Initiative PhD Award

The Use of Telehealth Technology to Improve Respiratory Health of First Nations People Living with Chronic Obstructive Pulmonary Disease (\$1,030)

### BC Lung Association Respiratory Rehabilitation Scholarship

The Use of Telehealth Technology to Improve Respiratory Health of First Nations People Living with Chronic Obstructive Pulmonary Disease (\$12,500)

## Michele Schaeffer

### ERS RESPIRE4 Marie Sklodowska-Curie Postdoctoral Research Fellowship

Effectiveness and mechanisms of menthol inhalation for the relief of dyspnoea in COPD (“MENTHODYSC”) (169,800€)

Host Institution: KU Leuven (Belgium)

Supervisor: Dr. Daniel Langer



# Team Player of the Quarter

Every Quarter we nominate a deserving HLI member for the Team Player of the Quarter Award

The nominee can be a staff member, trainee or PI. That person did something exceptional and/or caring for their fellow team members and will be rewarded with a \$50 gift card (of their choice)



# 11 nominations ! Here are some comments about the winner(s):

**We have a joint nomination !**

Both of these nominees worked extremely hard to organize a recent event. They are both always eager to help and provide guidance to students

Both worked tirelessly to make this week long event happen. They continue to pull trainees together to create a sense of community and involvement. Their dedication deserves recognition.

I would like to nominate both for their 'joint' leadership and amazing professionalism, work ethic inspiration of a very successful event. HLI can be proud of these two team players !

They organized abstracts from trainees, invited external speakers, chaired sessions and the poster event was a great way to see the research going on at HLI and to interact with students. Well done.



# TEAM PLAYER OF THE QUARTER WINNERS ARE



Naomi Potter



Katrina Besler

Each winner will receive a \$50 gift card (of your choice)  
Let Claire know what you would like.



# **Next Quarterly Meeting**

## **Winter QM and HLI Awards**

**Dec 13th 2021**

**9-10 am**

**GET OUT AND VOTE !**

Wear a mask and wash your hands

