



HLI Summer Quarterly Meeting June 21st 2021





Quarterly Meeting 9:00 – 10:00 am Zoom- June 21st 2021

Adoption of Minutes from Mar 8th 2021

Director's Update

Dr. Don Sin

Tracy Yang

Operational Updates

Chris Robinson

Claire Smits

Ivan Leversage

Dr. Scott Tebbutt

Katrina Besler

Dr. Vivienne Chan

Dr. Don Sin

Centre News

Finance Update

Human Resources News

Operations Update

Health & Safety, Education and Events

Ed Renewal Project/Post Doc Mentorship

Trainee Association Update

Grants and Award Successes

Team Player of the Quarter winner

**Adoption of Minutes
from March 8th 2021
Quarterly Meeting**

**Motion by Jim Russell
2nd Dean English**



Director's Update



2020 Annual Report



59 Principal Investigators and
Affiliated Investigators

42 Research Associates and
Postdoctoral Fellows

56 Graduate Students

36 Undergraduate Students

6 Visiting Scientists

55 Support, Operations, and
Administrative Staff

In 2020, HLI Principal Investigators published
375 Peer-reviewed journal articles, together receiving
2,158 Citations

8 Core Facilities

Cardiovascular Registry
Lung Tissue Registry
Cellular Imaging and Biophysics
Graphics and Imaging
Histology
Molecular Phenotyping
Pre-clinical Models
Digital Slide Scanning

> \$14.8M
in external funding*

\$13.3M
Peer-Reviewed Grants

\$672K
Clinical Trial

\$136K
Contracts and Agreements

\$1.61M
Salary Awards

*April 2020 to March 2021. Details in Appendix A. Total funding held at HLI: \$10.9M



2020 Annual Report



Dr. Andrew Krahn
UBC Killam Research Prize



Dr. Liam Brunham
American Society for Clinical Investigation Young
Physician Scientist Award;
Canadian Cardiovascular Society Young Investigator
Award



Dr. Bradley Quon
Cystic Fibrosis Foundation
Clinical Research Award

FACULTY AWARDS



Dr. Delbert Dorscheid
AllerGen Michelle Harkness
Mentorship Award



Dr. Don Sin
Tier 1 Canada Research Chair
in COPD (Renewal)



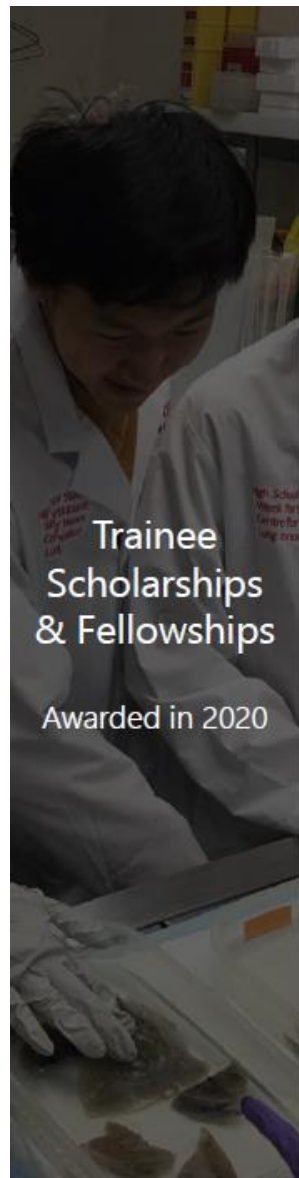
Dr. Jonathon Leipsic
UBC FoM Distinguished
Achievement (Senior Faculty)



Dr. Keith Walley
Bill and Marilyn Webber
Lifetime Achievement Award



2020 Annual Report



Sana Aghakeshmiri (Yang)
NSERC USRA

Katrina Besler (Francis)
Vanier Canada Graduate Scholarship

Abhinav Kumar Checkervarty (Tebbutt)
Mitacs Accelerate

Dr. Rachel Eddy (Sin, Leipsic)
MSFHR Research Trainee

Lauren Forgrave (DeMarco)
CIHR Doctoral Award

Dr. Alex Franciosi (Quon)
MSFHR Research Trainee

Dr. Ana Hernandez (Leung, Sin)
Mitacs Accelerate

Dr. Sho Hiroyasu (Granville)
CIHR Fellowship

Rylan McCallum (Brunham)
NSERC USRA

Dr. Stephen Milne (Sin)
Mitacs Accelerate

Reid Mitchell (Guenette)
BC Lung Respiratory Rehabilitation Fellowship

Jinelle Panton (Tebbutt)
Mitacs Accelerate

Debora Petry-Moecke (Camp)
BC Respiratory Rehabilitation Fellowship
UBC International Tuition Award
UBC Faculty of Medicine Graduate Award

Andrew Ramsook (Guenette)
NSERC Michael Smith Foreign Study Supplements Program

Katlyn Richardson (Granville)
CIHR Doctoral Award

Elodie Sauge (Bernatchez)
Mitacs Accelerate

Srijan Subedi (Dorscheid)
FoM Summer Student Research Program Award

Dr. Anthony Tam (Sin)
Mitacs Accelerate

Arash Tehrani (Bernatchez)
UBC Graduate Scholarship Award

Justin Turner (Camp)
BC Lung Respiratory Rehabilitation Fellowship
UBC Aboriginal Graduate Scholarship
IKB BC Scholarship Society Indigenous Doctoral Student Award
UBC Faculty of Medicine Graduate Award
Elizabeth Henry Scholarship for Communities & Environmental Health
UBC Rehabilitation Sciences Alumni Margaret Hood Scholarship in Occupational Therapy
Inspire Building Brighter Futures Indigenous Student Bursary

Mai Tsutsui (Sin)
Uehara Memorial Foundation Research Fellowship
Mitacs Accelerate

Kauna Usman (Hackett)
Mitacs Accelerate

Dr. Dragos Vasilescu (Hogg)
Parker B Francis Fellowship

Jing Wen (Sin)
Mitacs Accelerate

Dr. Zoe White (Bernatchez)
Mitacs Accelerate

Dr. Alyson Wong (Ryerson)
MSFHR Research Trainee

Tim Xue (Luo)
CIHR Doctoral Award



MRI – clinical imaging goes live Jun 15th 21



April 17 21



May 15 21

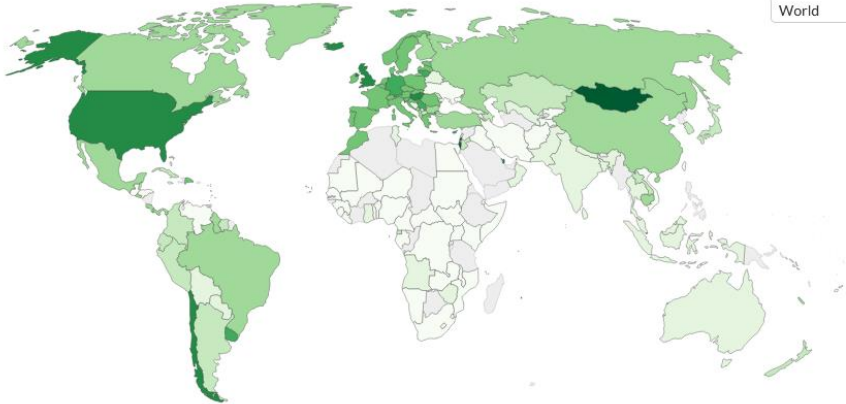


June 11 21

Thanks to Rachel Eddy for photos

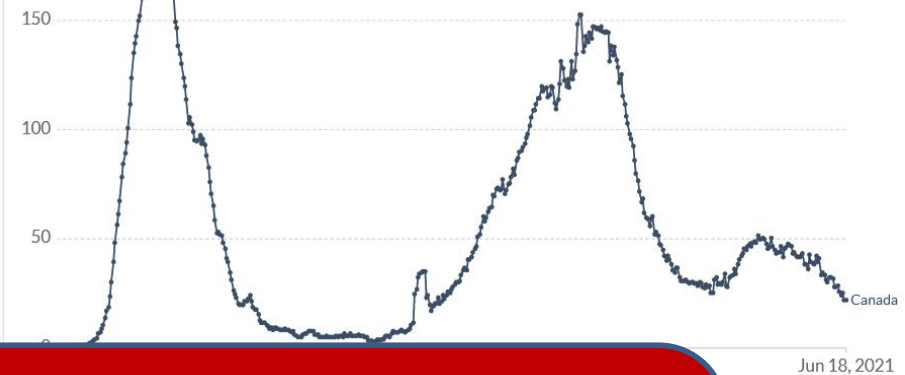
Share of the population fully vaccinated against COVID-19, Jun 18, 2021

Share of the total population that have received all doses prescribed by the vaccination protocol. This data is only available for countries which report the breakdown of doses administered by first and second doses.

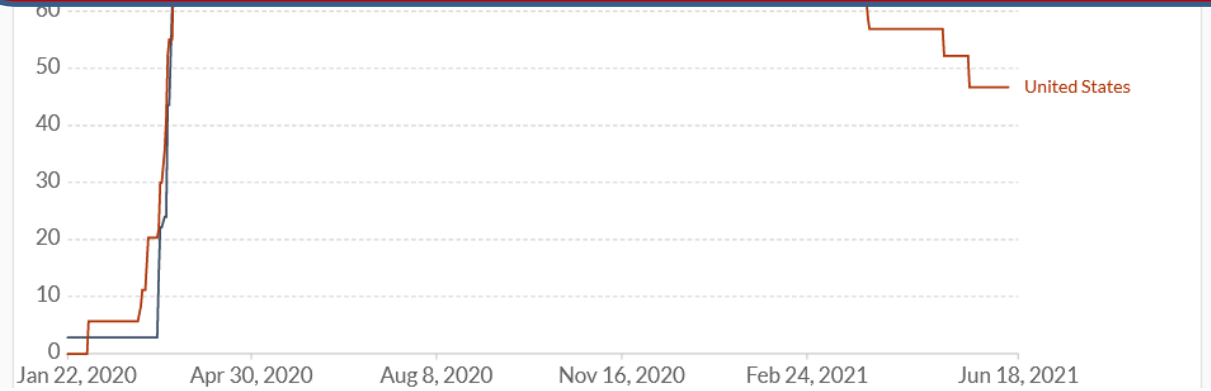


No data 0% 1%

Daily Death Count



**Return to In-Person
September 2021**



Finance Update

Tracy Yang



FINANCE UPDATE

April 1, 2020 to March 31, 2021

| | Received | Projected Budget | Balance |
|--|--------------------|-------------------------|-------------------|
| Hospital Infrastructure personnel | \$1,000,000 | \$1,000,000 | \$0 |
| Other Infrastructure personnel | \$299,571 | \$299,571 | \$0 |
| Cost Sharing | \$138,084 | \$175,000 | (\$36,916) |
| Indirects | \$230,250 | \$230,250 | \$0 |
| Overhead* | \$99,309 | \$125,000 | (\$25,691) |
| TOTAL | | | (\$62,607) |

*Estimate, final OH distribution will be made available after PHCRI audit



April 1, 2020 to March 31, 2021

| | Carry-Over | Budget | Expenses | Balance |
|--------------------------------|-------------------|---------------|-----------------|----------------|
| Imaging | \$1,721 | \$3,279 | \$0 | \$5,000 |
| Facilities | | | | |
| General Repair and Maintenance | \$0 | \$30,000 | \$21,730 | \$8,270 |
| Miscellaneous Equipment* | \$0 | \$12,000 | (\$9,468) | \$21,468 |
| Service Contracts - Freezers | \$36,506 | \$0 | \$34,990 | \$1,516 |
| Service Contracts - Other | \$0 | \$30,000 | \$31,581 | (\$1,581) |
| Tissue Culture** | \$0 | \$21,000 | \$34,192 | (\$13,192) |

*CRCEF Stage 3 Funding applied to cost recover

**Payment of two BSC's, timing of payment date



April 1, 2020 to March 31, 2021

| | Carry-Over | Budget | Expenses | Balance |
|--------------------------------------|-------------------|---------------|-----------------|----------------|
| IT/Equipment | | | | |
| Server Room Hardware and Maintenance | \$0 | \$45,000 | \$41,215 | \$3,785 |
| Server Software | \$0 | \$30,000 | \$37,426 | (\$7,426) |
| Workstation Software | \$0 | \$30,000 | \$53,595 | (\$23,595) |
| Supplies | \$0 | \$30,000 | \$17,400 | \$12,600 |
| IT/Equipment Contingency | \$130,000 | \$0 | \$0 | \$130,000 |



April 1, 2020 to March 31, 2021

| | Carry-Over | Budget | Expenses | Balance |
|--------------------------------|-------------------|---------------|-----------------|----------------|
| Courier | \$0 | \$6,000 | \$1,464 | \$4,536 |
| Telephone/Fax Expenses | \$0 | \$3,000 | \$1,650 | \$1,350 |
| Laundry | \$0 | \$0 | \$0 | \$0 |
| Seminar Series | \$0 | \$15,000 | \$4,193 | \$10,807 |
| Education/T&E | \$0 | \$5,600 | \$1,996 | \$3,604 |
| Infrastructure Training | \$0 | \$2,000 | \$1,585 | \$415 |
| Clinical Research Core | \$0 | \$65,000 | \$51,590 | \$13,410 |



April 1, 2020 to March 31, 2021

| | Carry-Over | Budget | | Balance |
|--------------------------------------|-------------------|---------------|----------|----------------|
| Administrative Costs* | \$0 | \$60,000 | \$21,717 | \$38,283 |
| Infrastructure Salary Account | \$0 | \$85,000 | \$60,952 | \$24,048 |
| Computing | \$0 | \$15,000 | \$194 | \$14,806 |
| HLI Contingency** | \$10,706 | \$39,903 | \$47,331 | \$3,278 |

*Photocopier lease, water, catering, office supplies, catering, etc

** Special initiatives, Training, Renovations, Recruitment



CORE FACILITIES

| Core Facility Budgets | Carry Forward Balance | Total Received** | Total Spent | Balance |
|--------------------------------|------------------------------|-------------------------|--------------------|----------------|
| CORE 1 Molecular Phenotyping * | \$72,126 | \$32,821 | \$59,247 | \$45,700 |
| CORE 3 Cellular Imaging* | \$115,944 | \$35,442 | \$55,755 | \$95,632 |
| Cell Culture* | (\$686) | \$2,110 | \$9,807 | (\$8,383)*** |
| Histology* | \$117,533 | \$60,458 | \$115,266 | \$62,725 |
| Imaging (Aperio, Posters) | \$87,696 | \$16,909 | \$40,383 | \$64,223 |
| Computing | \$45,288 | \$275,545 | \$245,739 | \$75,094 |
| GEM | \$34,298 | \$208,685 | \$104,284 | \$138,699 |

* Estimate, final amount will be determined after PHCRI audit

** Actual payment received, not total billing to date

*** Due to timing, user fee billing not received, uncollected amount \$6,133.00



HR Updates

- **Welcome to all new HLI members**
- **Return old ID badges**
- **Vacation days to be used**
- **September Student arrivals**



HLI OPERATIONS



Research Resumption Documents

As new students and staff come on board, please update your research resumption form (excel sheet) :

- 1. Check with HR for a desk assignment, add to your summary table tab

| Floor # | # of Faculty on Floor - Monday | # of Staff on Floor - Monday | # of Students on Floor - Monday | Total # of people on Floor - Monday |
|---------|--------------------------------|------------------------------|---------------------------------|-------------------------------------|
|---------|--------------------------------|------------------------------|---------------------------------|-------------------------------------|

- 2. If working on new projects add the project REB/ACC number and title to the project info sheet
- Send to Claire.smits@hli.ubc.ca. Will batch and send for approval. You will be sent an approval letter.
- Patient based research – must have approved documents in place (ethics, safety checklists) check with Julie.hadden@ubc.ca or paula.piper@ubc.ca



CSRC

- Two working groups meeting regularly
 - 1) Workstations, meeting rooms and offices
 - survey sent
 - 2) Lab space- working on detailed equipment lists



Canada Foundation for Innovation

HLI is composing a CFI application, draft title:

- Working title: *Single cell and spatial phenotyping for precision health in heart and lung disease*
- *Drs Hackett and Bernatchez are leading this application*
- Thanks to all who have sent in CFI equipment ideas

2nd CFI Opportunity CFI -Major Science Initiative

- Facilities funded in 2017- automatically eligible
- Refurbishment, repair of existing CFI equipment
- Information session July 14th , all are welcome to attend



Strategic Plan

- Working with UBC’s Strategy and Decision Support Group (SDS)
- Starting Phase 1 – Determining Stakeholder Groups
- More meetings will be arranged Sep to Nov with SDS’s help
- Will present a draft Strategic Plan to all Dec/Jan.

Strategic Planning - Stakeholder Engagement Template

| | | JULY - Situation Awareness | | | Plan Development- Sep- Nov |
|-------------------|---------------------|----------------------------|--------|-------------|----------------------------|
| Stakeholder Group | Stakeholder | SWOT tool | | | Involvement Level |
| | | Interview | Survey | Focus Group | |
| Students | Trainee Association | | | | Working Group (WG) |
| Faculty | Volunteers | | | | |
| Staff | Ops team | | | | |
| | Research managers | | | | Information recipient (IR) |
| | Admin staff | | | | |
| UBC Leadership | | | | | Validation Group (VG) |
| Industry | | | | | |
| Government | | | | | |
| UBC or external | | | | | |



HLI Core Manager's Update

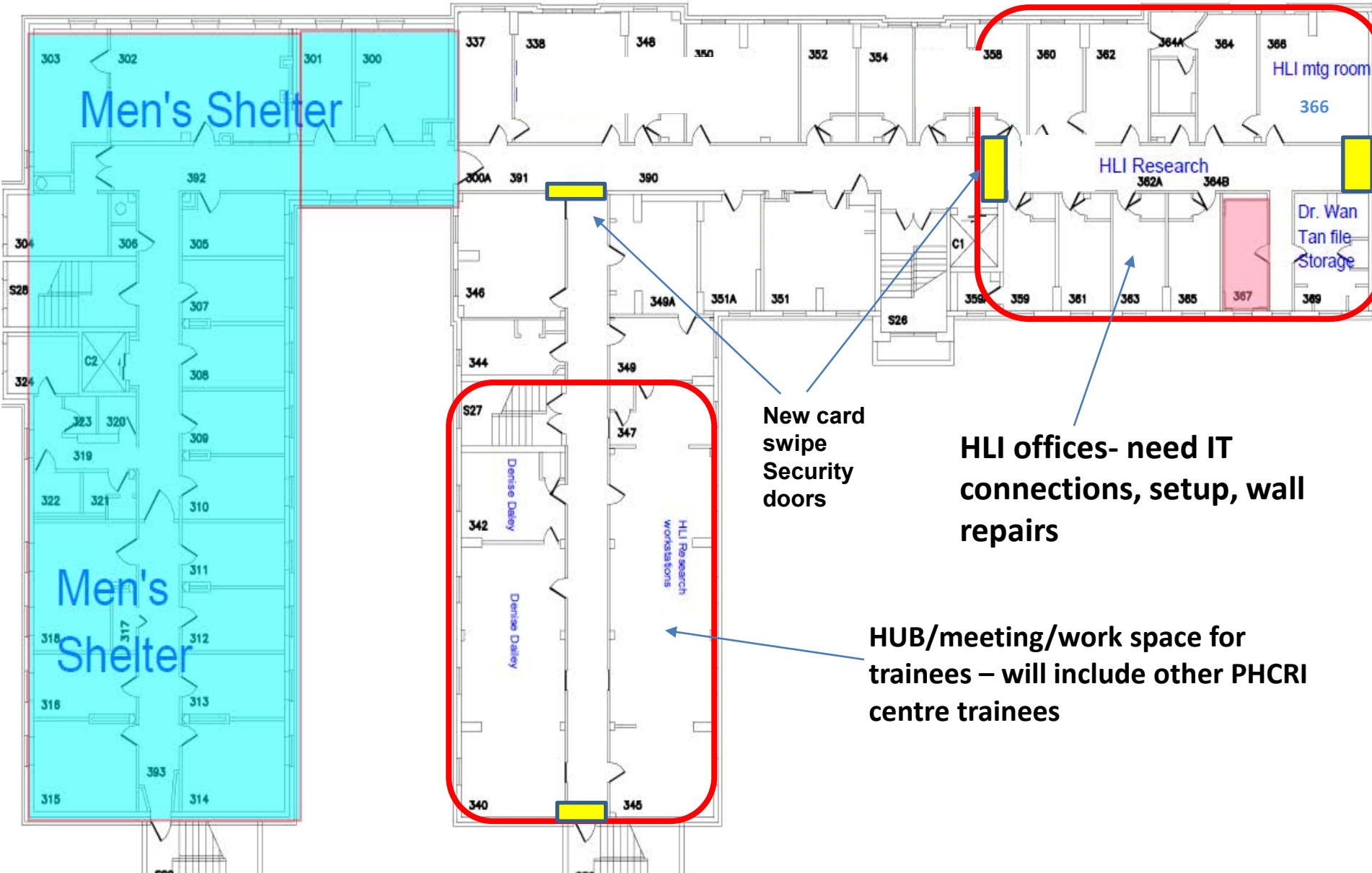
What's New in the Cores May 19th

- Molecular Phenotyping – Beth Whalen
- Cellular Imaging- Aaron Barlow
- Histology- Amrit Samra
- GEM – Claire Smits

- More updates from HLI Core's this fall



Comox 3rd floor



Men's Shelter

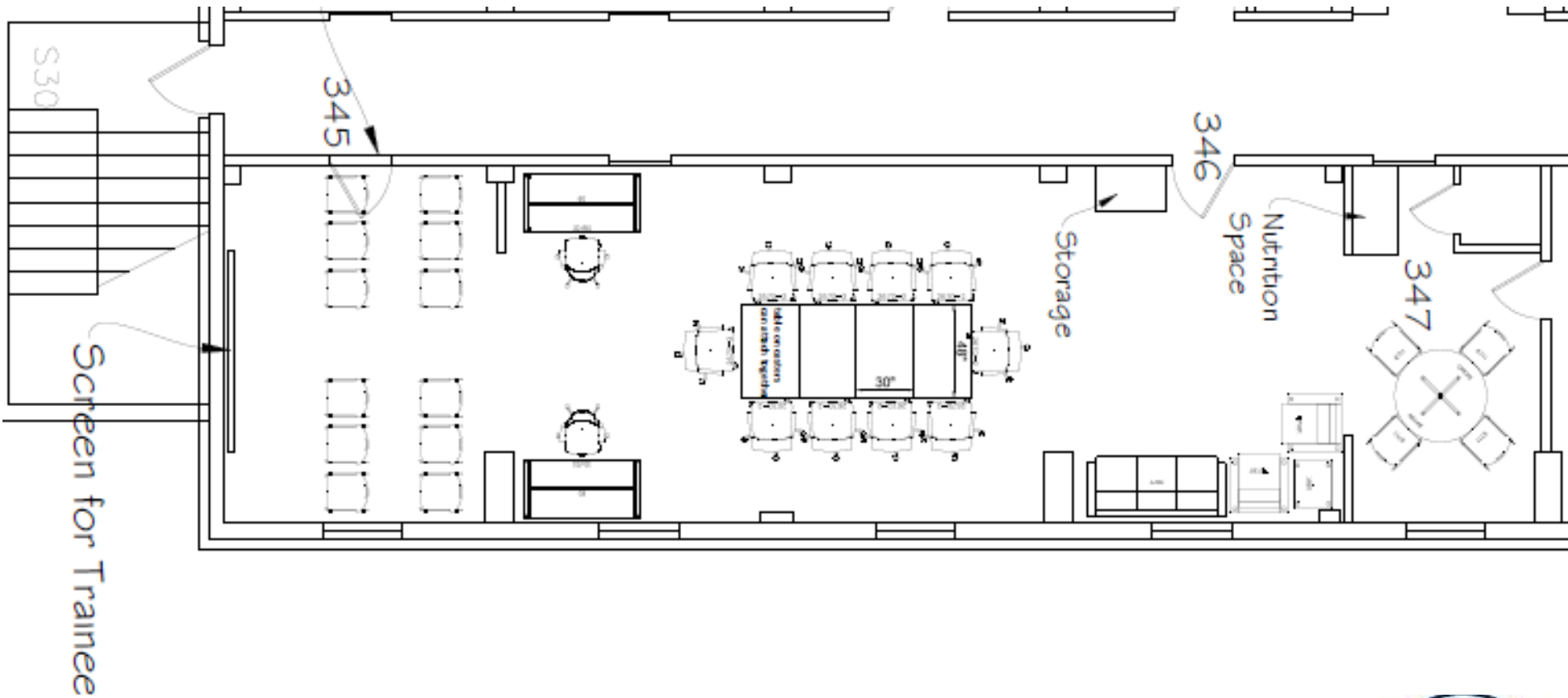
Men's Shelter

New card swipe Security doors

HLI offices- need IT connections, setup, wall repairs

HUB/meeting/work space for trainees – will include other PHCRI centre trainees

Trainee Hub – Comox 345



Thanks to HLI's Trainee Association for assisting with the design and layout of this space



Updates

Health & Safety
Education





Until further notice Masks are required



- Even if you have been vaccinated, you are still required to wear masks in public indoor spaces 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

- PLEASE CONTINUE TO :
- 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 and if you have signs of illness, stay home



WHAT NOT TO WEAR in the lab this summer

↳



Health & Safety

- Appropriate Summer Clothing in Research Facilities
 - Minimum requirements for PPE in a wet lab include:
 - Fully covered, liquid resistant footwear
 - Long loose fitting pants
 - Buttoned lab coat with the sleeves rolled down
- Suggestions to offset the higher temperature:
 - Frequent breaks
 - Lighter weight garments
 - Alternative working hours

Health & Safety

- Transportation of Dangerous Goods Training (TDG) completed June 7th - 17 Participants
- Lab Inspection underway – following FoM COVID guidelines
- Fume Hood Certification – **TBA**
- Health & Safety Week – July 26th - 30th
- Liquid Nitrogen Training – Coming Soon



Healthy Workplace Initiative Program

- **Pilates classes are running Jun 16-Dec 8th**
- **All Classes will be virtual**
- **Foam rollers, bands will be available for borrowing**
- **Wed at noon and Tues at 4, alternating weeks**



- **VIRTUAL CLASSES**
- **15 people max per class**
- **A camera setup (your phone is fine) so the instructor can see you**
- **Complete a participant questionnaire**
- **5 people (physical distancing) can join onsite from Gourlay, can do chair technique version, can also join from your desk or from home**

Education Update

- **Career Week** – July 5th to 9th
- **Summer Student RIP's** – starts July 5th
- **PATH 521- Introduction to the Pathogenesis of Human Disease** now well underway - please encourage your Summer Student to attend
- **HLI Friday Seminar** - Taking bookings for fall session commencing September 10th
- **HLI Friday Seminar January to June attendance** - 795 attendees (average attendance - 47)
- **Health & Safety Week** – July 26th to 30th
- **Research in Progress** – Fall session begins September 13th
- **RIP Seminar January to June attendance** - 713 attendees (average attendance - 40)



Upcoming Events

July 5th – Virtual SSRIP Kicks Off

July 5-9th – Virtual Career Week

July 26-30th – Virtual Safety Week

Aug 16-20th – Virtual HLI Research Day

Sept 10th – Virtual Friday Seminar Series Kicks Off

Sept 13th – Virtual RIP Kicks Off

details/ZOOM invites to follow



Dr. Scott Tebbutt
Education Director / Trainee
Association News



➤ **UBC Advancing Education Renewal Project**
***“Knowledge Translation and
Mobilization”***

- 28 applications for part-time position of project coordinator
 - ❖ 4 candidates on short-list

➤ **HLI Postdoctoral Mentorship Program**

- Planning stages, with new HLI faculty
 - ❖ Ying, Stephanie, Graeme & Amrit
- Will utilize and build on strategies from previous CIHR IMPACT Program at HLI



HLI Trainee Association

- New Co-Chairs: Katrina Besler, Naomi Potter
- Trainee Association Logo: meeting today at 3 pm!
- Comox 345: will become trainee lounge, study/meeting area
- Annual meeting with Dr. Sin, April 15th
- Trainee Research Week Organizing Committee formed.
 - August 16th to 20th, virtual
- Graduate student mentorship program: early planning phase
 - Requesting input soon
- Two trivia nights held in March and May



Grants and Awards

March 8, 2021 to June 21, 2021

PI Grants and Awards



CIHR Operating Grant: COVID-19 Research Gaps and Priorities

Honglin Luo

Repurposing an FDA-approved anti-gout drug for the treatment of COVID-19

\$562,275



Genome BC: Genesolve Program

Liam Brunham

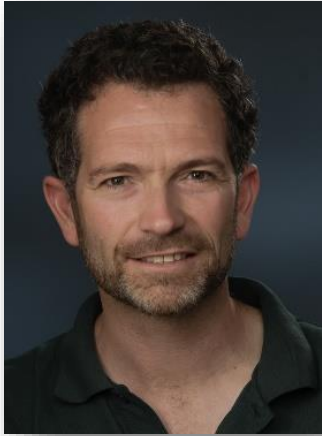
The Advancing Cardiac Care Unit-based Rapid Assessment and Treatment of hypercholesterolemia (ACCURATE) study

\$400,000



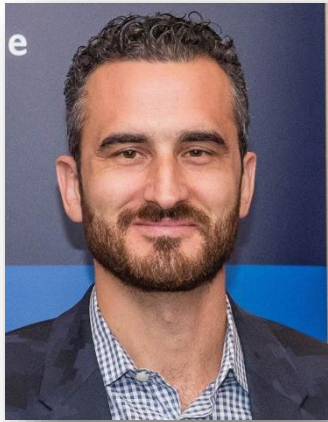
PI Grants and Awards

VCHRI Innovation and Translational Research Award



Scott Tebbutt

Developing biomarkers for guiding immunosuppression strategy during cytomegalovirus infection in heart transplant patients



Liam Brunham

The Advancing Cardiac Care Unit-based Rapid Assessment and Treatment of hypErcholesterolemia (ACCURATE) Study



PI Grants and Awards



PHC Research and Mission Award

Chris Ryerson



St. Paul's Foundation

Jim Russell

Prediction of Long COVID-19 (PREDICT LONG C-19)

\$114,000



PI Grants and Awards

St. Paul's Foundation – Support for COVID-19 Projects (\$25,000 each)

John Boyd

NUWISE (Nutritional Supplement for Patients With Severe Infection)

Kelly McNagny

Blood Biomarkers for severe COVID-19

Jordan Guenette

Post-COVID-19 Dyspnea

Rachel Eddy, Don Sin, Jonathon Leipsic

ImPCR-COVID19 (Pulmonary Imaging of Post-COVID19 Recovery)

Janice Leung

Finding novel therapeutics for COVID19 using epithelial cultures

HLI Heart Tissue Registry / Histology

ABCD (Accelerating Blood and Cardiopulmonary COVID-19 Diagnostics)



MITACS Accelerate



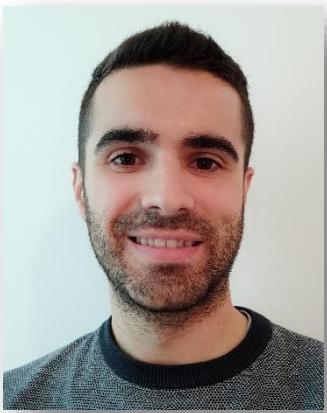
Targeting granzyme B with a novel inhibitor
for the treatment of radiodermatitis

Supervisor: David Granville

\$93,333



Trainee Grants and Awards



Valentin Blanchard (Francis)

CIHR Fellowship

Molecular and cellular phenotyping of smooth muscle cell foam cells for the prevention of atherosclerosis (\$135,000)



Layla Nabai (Granville)

CIHR Fellowship

Granzyme B: A novel therapeutic target in cutaneous leishmaniasis (\$135,000)



Trainee Grants and Awards



Justin Turner (Camp)

SSHRC CGS-D Award (\$35,000/yr)

BC NEIHR Doctoral Scholarship (\$35,000)



Denitsa Vasileva (Daley)

4-Year Fellowship



Debora Petry-Moecke (Camp)

4-Year Fellowship



Trainee Grants and Awards

CGS-M (\$17,500)



Eric Xiang (Francis)

Understanding cross-talk between macrophages and smooth muscle cells in foam cell development.



Shanay Niusha (Tebbutt)

The role of regulatory T cells in blood during acute heart transplant rejection



Naomi Potter (Quon)

Blood Biomarkers to Improve the Diagnosis of Cystic Fibrosis Pulmonary Exacerbations



Olivia Hutchinson (Guenette)

The effects of face masks on the multidimensional components of dyspnoea and the respiratory muscles



Trainee Grants and Awards



Abhinav Kumar Checkervarty (Tebbutt)

2021 Friedman Award for Scholars in Health

OMICs biomarkers to predict neonatal vaccine response
(\$25,000)



Jasmine Memarzadeh (Tebbutt/Dorscheid)

NSERC USRA

Modeling vapour exposure in human airway epithelial cells to characterize the elicited cellular responses
(\$6,000)



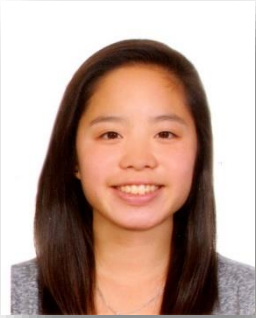
Daniel He (Tebbutt)

**UBC Faculty of Medicine Graduate Student
Collaboration Fund**

UBC Faculty of Medicine SciComm Week (\$1,500)



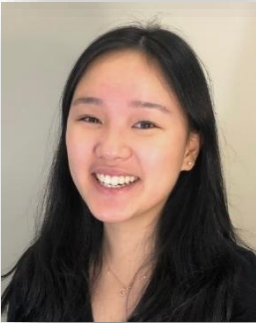
Trainee Grants and Awards



Coco Ng (Heart Registry)

UBC Pathology and Laboratory Medicine

Characterization of the Pathological Hallmarks and Mechanisms of COVID-19-associated Cardiac Injury via Digital Spatial Profiling (\$3,200)



Felicia Liu-Fei (Heart Registry)

American Society of Investigative Pathology

Characterization of the Pathological Hallmarks and Mechanisms of COVID-19-Associated Cardiac Injury via Digital Spatial Profiling (\$4,000 USD)



Daniel He (Ryerson and Tebbutt)

National Health Research Poster competition



Trainee Grants and Awards

FoM Multidisciplinary Research Program

Cellular and molecular biomarkers to predict vaccine responses in newborns (\$8,312)

William Gervasio (Tebbutt)

Emily Gubskaya (Tebbutt)

Madison Hung (Tebbutt)

FoM Summer Student Research Program

Shayan Soleymani (Tebbutt)



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, student 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)



Four nominations, comments about the person with the most votes:

- **This person is always so kind and helpful when I ask for help.**
- **He comes and looks at the problem and everything gets fixed right away.**
- **His hard work and dedication is appreciated along with his calm demeanor in times of panic.**

Nghia Tran – IT Services



Next Quarterly Meeting

Fall

Sep 20th 2021

9-10 am

Questions?

A request for Trainee Research week schedule to be sent by email so we can all put it in our calendars.

