

# Welcome all new Staff and Students!



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



# Land Acknowledgement

I acknowledge with gratitude that I live and work on the traditional, ancestral, and unceded territories of the x<sup>w</sup>məθk<sup>w</sup>əy̓əm (Musqueam), S̓k̓w̓x̓w̓ú7mesh (Squamish), and Səl̓ílwətał (Tsleil-Waututh) Nations.

We acknowledge our traditional hosts and are grateful for their welcome



Centre for  
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UBC and St. Paul's Hospital

## HLI HR Team



Kelly Ceron

HR Manager

[kelly.ceron@hli.ubc.c](mailto:kelly.ceron@hli.ubc.ca)

a



Chris Robinson

HR Coordinator

[chris.robinson@hli.ubc.ca](mailto:chris.robinson@hli.ubc.ca)



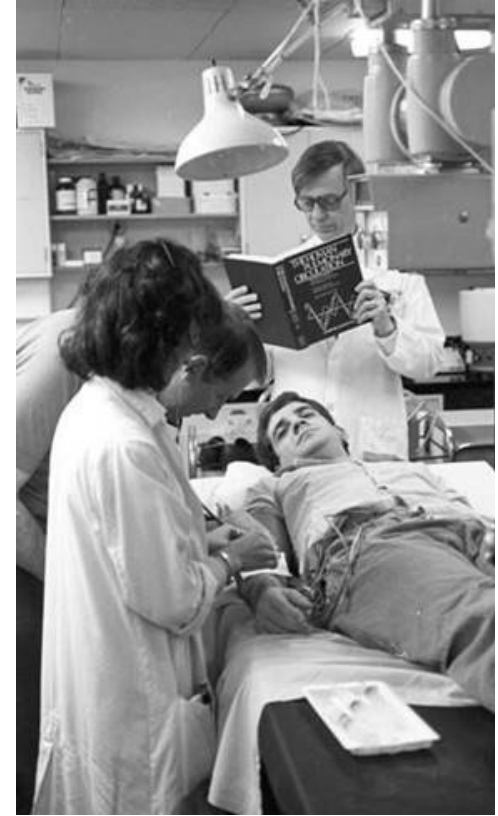
Please know that HLI HR is a safe place to be heard. You are encouraged and welcome to contact one of us if you need help or assistance with anything. This is confidential and will not be shared

# Orientation Outline

- History of the Centre for Heart Lung Innovation
- Research programs
- Services
- Things you should know!
- Safety Training – Ivan Leversage, HLI Safety Coordinator

# In the Beginning...

The Pulmonary Research Laboratory began in 1977



# Growing...



McDonald Research Lab - 1998

# Changing Identities...



2000 - Imaging, Cell Analysis, and Phenotyping Toward Understanding responsive, reparative, remodeling and Recombinant Events



JAMES HOGG RESEARCH CENTRE  
University of British Columbia

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Institute for HEART+LUNG Health

2010 - UBC James Hogg Research Centre

And Now ...

# The Centre for Heart Lung Innovation Team

Principal Investigators	37	Other Students	64
Early Career Investigators	3	PI Staff	25
Associate Members	17	Core and Operations Staff	37
Research Associates	7		
Visiting Scientists	7	<b>TOTAL</b>	<b>276</b>
Post-Doctoral Fellows	32		
Graduate Students	47		



Centre for  
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Group Photo  
2023





# The Centre for Heart Lung Innovation

## Vision, Mission, Values

- To be the world leader in understanding and eliminating heart, lung, and blood vessel diseases
- We discover and implement solutions for heart, lung, and blood vessel diseases. We attract and support the best people.
- Creativity, Integrity, Quality and Teamwork

# Centre Leadership



**Donald D. Sin, MD, MPH**

**Director , Centre for Heart Lung Innovation**

**Professor, Department of Medicine, University of British  
Columbia (UBC)**



**Jordan Guenette**

**Associate Director, Centre for Heart Lung Innovation**

**Associate Professor Department of Physical Therapy,  
University of British Columbia (UBC)**

# Centre Management

The **HLI Operations Team** is the management committee empowered to tackle day to day operational issues in the Centre.



**Chris Robinson**  
*Human Resources*



**Beth Whalen**  
*Technician  
Representative*



**Joe Comeau**  
*IT*



**Ivan Leversage**  
*Health & Safety*



**Dean English**  
*Security*



**Tracy Yang**  
*Finance*



**Claire Smits**  
*GEM Facility &  
HLI Operations*

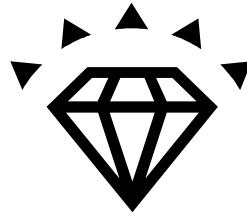
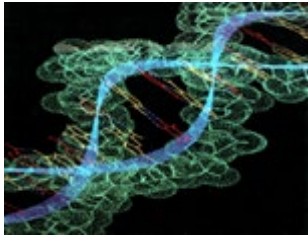


**Dan Vikse**  
*Equipment &  
Facilities*



# HLI Services

Or... How does all this research get done around here?



# GEM Facility (Genetically Engineered Models) using animals in research

Contact Claire Smits (x68852)



Tyler, Lynne, Eric, Claire, Ray

## GEM (Continued)

- Our focus is on heart and lung research, but it's not limited to that
- We can house mice, rats, hamsters, guinea pigs and rabbits
- All staff and students must complete the UBC Biosafety Course
- Those with terms longer than 4 months **must** complete UBC Animal Care Courses.
- Those planning to work in Level 2 Containment must complete the UBC Biohazard course prior to study participation. Everyone must complete an orientation.
- The GEM facility adheres to all UBC policies, procedures and protocols required for working with animals in research and provides oversight to all animal use on site.

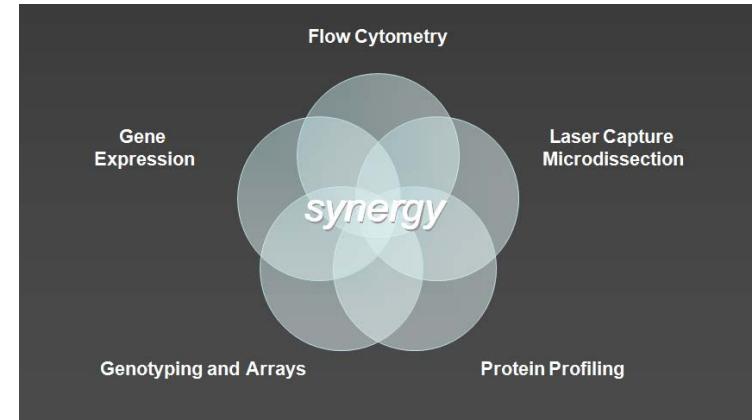
# “Core 1” – Molecular Phenotyping Laboratory

An extensive range of equipment tailored to the phenotyping of patients, experimental animal models, tissues, cells and molecules. The Core consists of 4 distinct yet related groups:

- Flow Cytometry
- Genomics
- Laser Capture Microdissection (LCM)
- Biorepository Services
- Nanostring



**Beth Whalen**  
Core 1 Manager  
Local 63535, Burrard 292





# Micro Computed Tomography

High resolution 3D imaging up to  $1\mu\text{m}$

Our new scanner can image

- Lung, Heart, Bone and other tissue structures

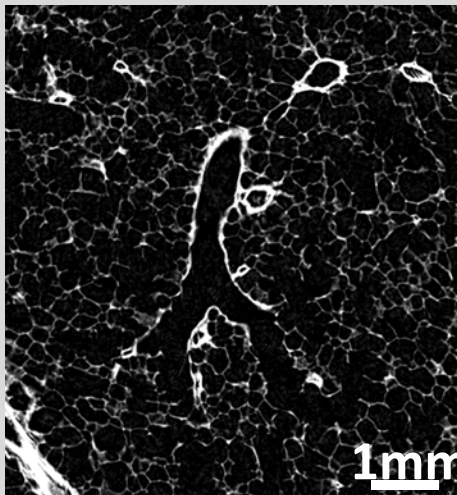


Dr. Dragoș Vasilescu

Associate Director,

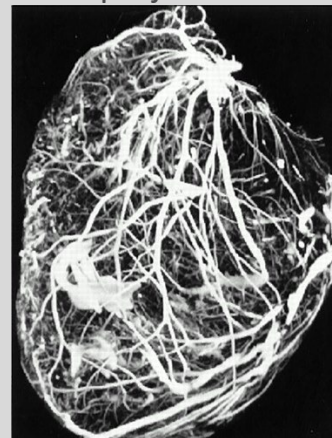
Cellular Imaging

## Lung parenchyma

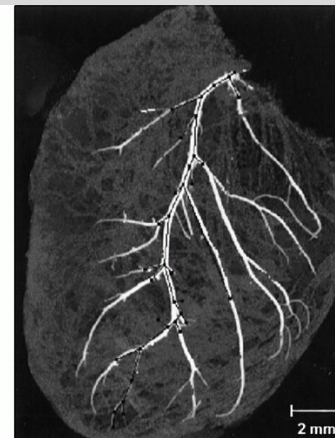


## Coronary arteries

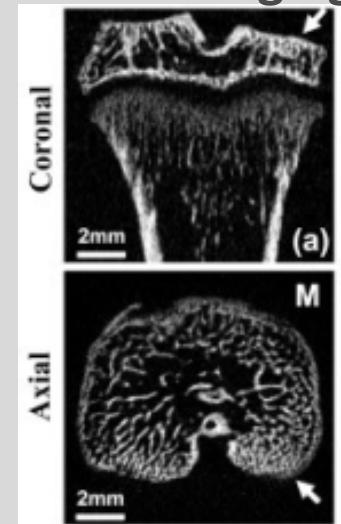
Maximum intensity projection



Tree trace display



## Tibia imaging





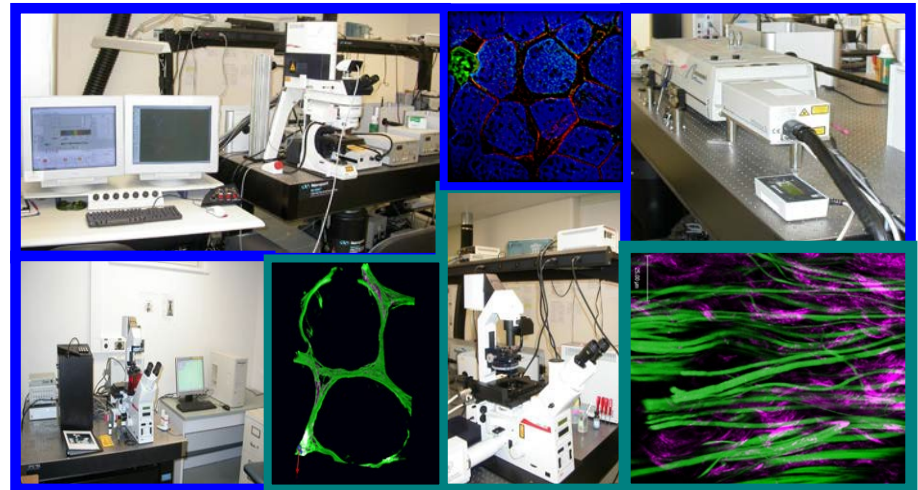
# Cellular Imaging & Biophysics Core

## Confocal/Multiphoton Microscopes

- Instruction in general aspects of confocal/ multiphoton/ harmonic generation microscopy
- Instruction in general aspects of image analysis
- Technical support in experimental design to protocol development



**Aaron Barlow**  
**Core 3 - Manager**



# Histology

- Embed and cut routine paraffin blocks
- Embed and cut frozen sections
- Routine Hematoxylin and Eosin staining
- Special stains
- Massons's trichrome
- Gamori's trichrome
- Movats's pentachrome
- Hansel's stain for eosinophils
- A variety of immunohistochemical stains



**Amrit Samra**  
Histology Manager  
Local 63546, McDonald 227

# Providence Airway Centre (PAC)

## HLI-Based National Research Cluster

Our vision is to bring new biomarker and therapeutic solutions to patients with chronic obstructive pulmonary disease (COPD) and related airway conditions.



Chung Cheung  
Program Manager



For more information, please visit:

<https://airwaycentre.ubc.ca/>

# BMCB Registry



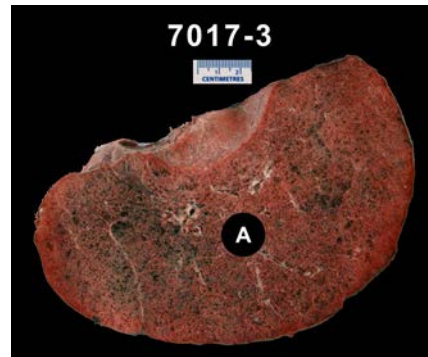
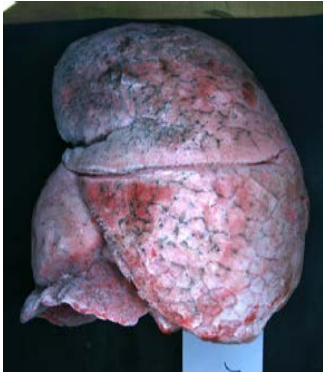
**Dr. Ying Wang**

- Have an issue, need some tissue?
- CV Registry can provide frozen (flash or OCT), formalin fixed, or RNA later preserved tissue
- Routine work: Tissue archiving and photography
- Perform experiments to your heart's content with tissue from the registry!



**Gurpreet Singhera**

# James Hogg Lung Biobank



**Dr. Tillie Hackett**

- We have a large bank of lung tissues and the associated clinical data and images in varying formats; frozen, formalin – fixed, paraffin embedded, and at times fresh for isolating cells for culture etc.



**Darren Sutherland**

# The Cell Culture Team

**Director/Chair:** Dr. Del Dorscheid

**Co-Director/ Tissue Culture Trainer:** Dr. Gurpreet Singhera

NEXT TC TRAINING : TBD



**Gurpreet Singhera**

## TC Core team members:

- **Dr. Gurpreet Singhera-** Primary culture room M203
- **Julia Kong-** Transformed cell culture room 2nd floor
- **Teddy Chan/ Chung Cheung-** Transformed cell culture room 1st floor
- **Dr. Chung Cheung-** Virus room M120
- **May Fouadi-** Primary cell culture room basement
- **Elodie Sauge-** Transformed cell culture room Core 3
- **Dr. Mary Zhang-** CBV3/Lab K
- **Dr. Jeremy Parker-** Cardiac Stem Cell (CSC) culture room (Healthy heart area)

# Grants and Administrative Services

This team supports the various PI's in the Centre.



**Arianne Brown**  
69033



**Katherine Adolphs**  
68275



**Evan Phillips**  
68275

# Need technical & facilities support or equipment maintenance? ....



**Dan Vikse**

Equipment Manager  
Local 62706



**Andy Diewald**

Maintenance Technician  
Local 62706



# Notes about Equipment & Facilities...

- If you're not familiar with a piece of equipment, contact your Lab Manager. Improper use of equipment can damage it and could cause personal injury.
- If a piece of equipment breaks, or if you find broken equipment, report it immediately, to the Lab Manager and via the Centre's ticket system.
- Looking for something in particular?? Your Lab Manager has listings of specialty equipment available in the Centre and can tell you who to contact.
- Be courteous and clean up after yourself.

**Asking for help and direction is a good thing!**

**There is no such thing as a dumb question.**

# Imaging Services

- Photography, image editing, image preparation for publication
- Poster printing, document & image scanning, presentations, business cards
- Microscopes, High resolution glass slide scanning, Image analysis
- Audio visual assistance, video conferencing



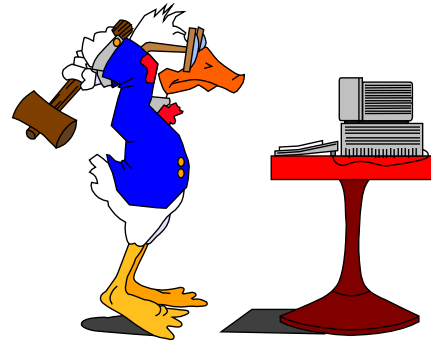
**Dean English**

Imaging Manager

[imaging@hli.ubc.ca](mailto:imaging@hli.ubc.ca)

Local 62094; 3B Room: 380

# Computer questions.... IT Services



Joe Comeau



Andrew Ferris



Kyle Johnson



Nghia Tran



Andy Chua



Dean English

# Do's and Don'ts from IT services

## Do's

- Contact the Help Desk for the correct information
- If you already have an account and password, please create a ticket for the issue you are having with a service or application.
- <https://helpdesk.hli.ubc.ca>
- Creating a ticket saves us time, shortening the wait time for us to review the ticket

# Do's and Don'ts from IT services

## Do's

- If urgent, call the HELP DESK at:  
68659 or 604-307-5872
  - example: password change
  - Printer problems, new toner, paper jam
  - Meeting room resources not working

# Do's and Don'ts from IT services

## Don'ts

- Do not bring in your personal computers or devices to work
- They are not allowed on the HLI Network as they bring potential harm to the network / resources and files
- Don't try to fix the printers or videoconferencing equipment.

# Do's and Don'ts from IT services

## Don'ts

- Do not save ANY files on local computers or external media like USB sticks or Hard Drives
- Save files to Network Storage so the Trustee Rights are maintained and backed up!
- Proper network collaboration allows for the work to continue after you leave
- Keep personal e-mail, internet access and tasks to a minimum

**Other things you  
should know...**



# Data Security and Privacy – Research Files

- **Files with patient information:**
  - Identifying information should be kept separate from data collected
  - **Paper:** Store in research office (lockable) in a filing cabinet (lockable) that only the necessary research staff can access
  - **Electronic:** Store on institutional computers/drives (UBC or PHC) behind institutional firewalls and password protected computers. Additionally, electronic files should be encrypted and password protected. **NEVER put on standard flashdrive/cloud services, or put files on personal laptop**
  - Standard institutional policy is to securely destroy research data 5 years after study closure, unless otherwise stated on study-specific ethics

# Data Security and Privacy - Emails

- Try to limit patient information in emails as much as possible
- Identifying information sent within institution is okay (ie. providence email to providence email)
- **NEVER send identifying information outside of institution unless this is explicitly stated on the ethics** (the method of data transfer will also be included on ethics – email often not the approved method)





# Bullying/Harassment Prevention

“Any inappropriate conduct or comment by a person towards a worker that the person knew or reasonably ought to have known would cause that worker to be humiliated or intimidated, but excludes any reasonable action taken by an employer or supervisor related to the management and direction of workers.”

# Bullying and Harassment Prevention

- We are ALL responsible for creating a respectful workplace free of bullying and harassment. ALL are responsible for responding to all incidents that are brought to your attention or witnessed.
- Report any incidences of harassment or bullying to HR.
- All Centre employees and trainees are required to take the UBC Bullying and Harassment course.

## Stay informed ....

- Check the newsfeed on the Intranet (<https://home.hli.ubc.ca/>)
- Read the HLI Events weekly e-mails
- Watch the boards outside the main office and the JHCC for news from the HLI's Committees:
- Join the HLI Trainee Association
- Sign up for the [research@providencehealth.bc.ca](mailto:research@providencehealth.bc.ca) mailouts!



## HLI Trainee Association (TAHLI)

***Mission:*** enhance the academic experience of all trainees by providing an environment to foster enhanced collaboration, education, professional growth and career success.

***Who are we?*** TAHLI includes all undergraduate students, graduate students, and postdoctoral fellows at HLI



## What do we do?

- Monthly Meetings:
- Social events (paint night, trivia, movies)
- Mentorship program
- Knowledge Translation & Mobilization (KTM) Training
  - Thursdays @12pm



# Communications

- Join our slack channel!
  - Includes our newly added writing group
- Keep up to date through our mailing list

We welcome your ideas for what you would like to see in your trainee association!



Feel free to reach out for more information or to be added to  
TAHLI's Mailing List:

**[Sunaina.Chopra@hli.ubc.ca](mailto:Sunaina.Chopra@hli.ubc.ca)**



# HLI's LinkedIn Page

The Centre for Heart Lung Innovation (HLI) is officially listed as an educational institution on LinkedIn (<https://ca.linkedin.com/school/centre-for-heart-lung-innovation/>). If you are a LinkedIn user, please consider listing the HLI in your work experience and education sections.

**Trainees - past and present (undergraduates, grad students, and postdocs):** Select "Centre for Heart Lung Innovation (HLI)" in the Education section. The "Alumni" section of the page will include all past and current trainees, allowing you to see where past trainees are now.

**Employees - past and present (staff and faculty):** Select "Centre for Heart Lung Innovation (HLI)" in the Experience section.



## Have you received?...

- HLI Policy forms to be signed (3)
- Confirmation of enrollment in the appropriate safety courses
- A tour of the lab from your supervisor
- ID Badge
- HLI network/email account

**If you HAVE NOT received all of the above items please see ask your lab manager**

# Any Questions???

**Grants**

- Evan Phillips (Local 68275)

**Operations**

- Claire Smits (Local 68852)

**Human Resources**

- Chris Robinson (Local 62859)

**Safety and Education**

- Ivan Leversage (Local 64005)

**Call or e-mail us!**

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# Education

## Regularly scheduled seminars:

- \* Research In Progress: Mondays 9 - 10 AM
- \* HLI Seminar Series: Fridays 11:30 AM

## Regularly scheduled curriculum courses:

- \* Pulmonary pathology: Path 518:  
Thurs 1:30 to 3:00 PM (Sept - Oct)
- \* Cardiovascular pathology: Medi 570:  
Wed 2:00 to 4:00 PM (Jan - Apr)
- \* Introduction to the Pathogenesis of Human Disease:  
Path 521: Tues, Wed & Thurs 9:00 to 10:00 AM  
(June - July)



**Ivan Leversage**  
Education Coordinator

**Watch the intranet!**