



ANNUAL REPORT

2024

Department of Pathology and Laboratory Medicine
Faculty of Medicine
University of British Columbia

Content

02

Chair's Message

page #2

04

Department Fact Sheet

page #6

03

Executive Summary

page #22

04

Associate & Affiliated Department Heads page #32

05

Highlighted Research and Training

page #48

06

Appendix: Funding and Publications 2024

page #62



VISION

Transform laboratory medicine and our understanding of disease for better health.

MISSION

We are an inclusive Department of Pathology and Laboratory Medicine where cutting-edge discoveries are made, future leaders in medicine are trained, and patients receive the highest quality of care.

VALUES

Global relevance, societal commitment, Integrity, collegiality, curiosity and innovation, equity and inclusiveness.

YEAR IN REVIEW

Welcome

As we reflect on 2024, I am filled with pride and appreciation for the tremendous accomplishments of the Department of Pathology and Laboratory Medicine at the University of British Columbia.

This year marked a period of outstanding progress and recognition. **Our research portfolio** reached new heights, with \$26.1 million in competitive funding secured — a **15% increase from last year** — and over \$3.3 million awarded to our researchers in personal fellowships, chairs, and investigatorships. Our scholarly output continued to lead nationally, with a citation impact well above global averages and over half of our publications produced through international or national collaborations.

Educationally, we advanced our mission by launching new programs, expanding co-op placements, and modernizing curriculum with courses in biotechnology, bioinformatics, and data science. Our graduate and undergraduate programs remained highly competitive and celebrated numerous award recipients. Importantly, we deepened connections with alumni and enhanced faculty mentorship through new teaching awards and peer evaluation systems.

Clinically, our department continued to serve as a cornerstone of British Columbia's healthcare system. We trained and graduated a strong cohort of fellows and residents, expanded teaching across health authorities, and welcomed new clinical faculty members province-wide. These efforts reaffirm our commitment to high-quality care, education, and leadership in laboratory medicine.

These achievements are not isolated successes—they are the result of a shared vision, collaborative culture, and tireless pursuit of excellence. To all members of our department and to our valued partners, thank you for your contributions, your resilience, and your belief in our mission.

As we look ahead, we remain committed to fostering innovation, expanding equitable opportunities, and strengthening our impact across communities, both locally and globally. Together, we will continue to transform pathology and laboratory medicine for a healthier future.

With sincere thanks and warmest congratulations,

Zu-hua Gao, MD, PhD, FRCPC, FCAHS
Professor and Head
Department of Pathology and Laboratory Medicine
University of British Columbia





DEPARTMENT FACT SHEET

We train medical professionals and scientists through our undergraduate BMLSc program, residency programs, and graduate and postdoctoral studies while conducting research with over \$70 million in funding. Our 462 faculty members work across hospital sites and health authorities throughout the province, bringing our expertise to British Columbia's healthcare system.

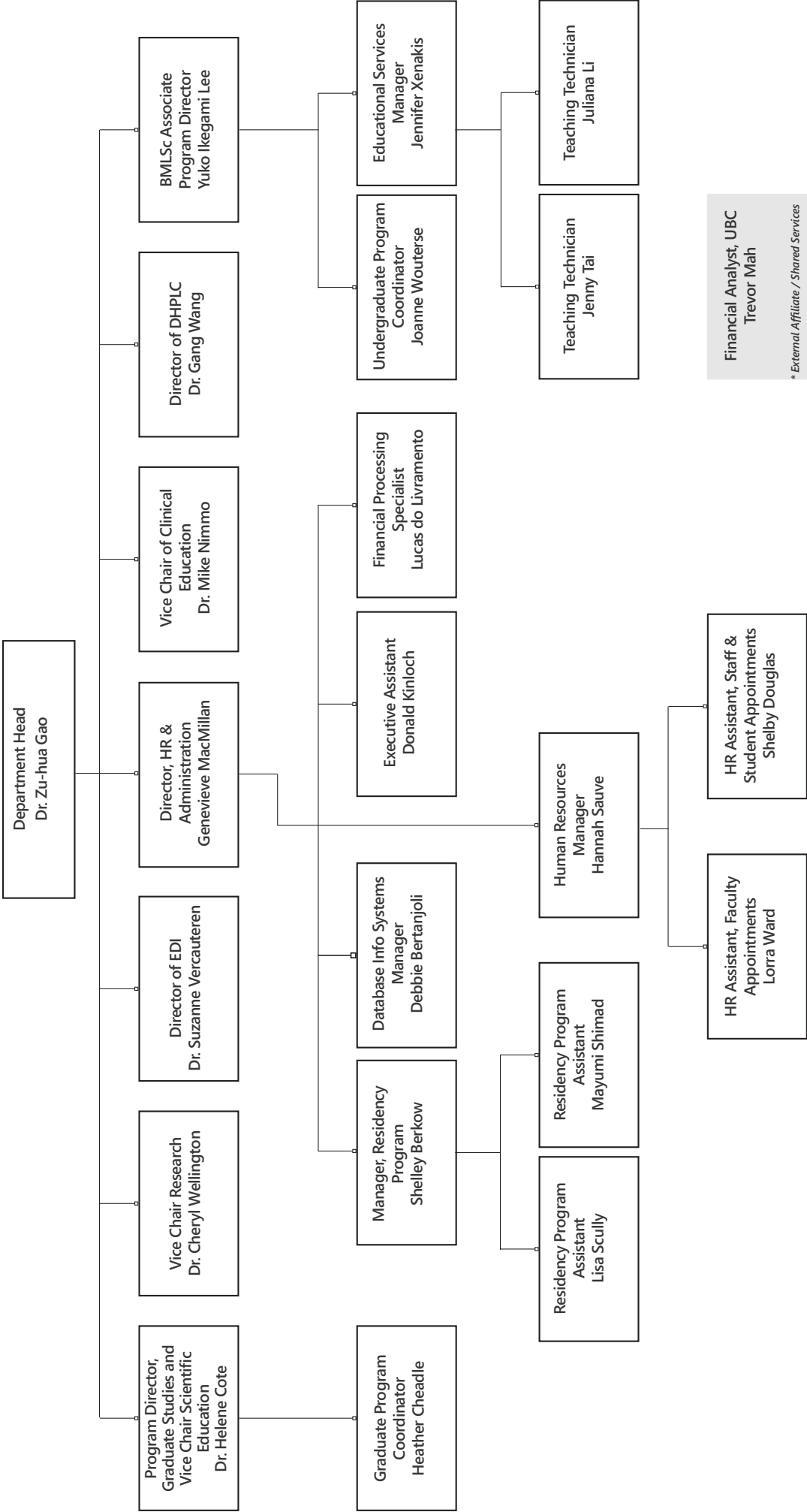
The following pages show our educational programs, research work, funding, and the achievements of our faculty and trainees.

03

The full-size version of the organizational chart is available [here](#)

ORG CHART 2024/25

DEPARTMENT OF PATHOLOGY & LABORATORY MEDICINE, UBC



EDUCATION PROGRAMS

GRADUATE STUDIES

• MSc STUDENTS	28
• PhD STUDENTS	34
• MD/PHD STUDENTS	1

TOTAL: 63 STUDENTS
34 SUPERVISORS

OUTSTANDING ACHIEVEMENTS

- **VANIER:**
Razieh Sadat Banijamali
- **CIHR CGSM:**
Lucy Li
Kidus Achalu
Abbey Sugars - Keen
- **4YF:**
Cyril Helbling
Michael Lane
Hesam Karimi Qezeljeh Meydan
- **AFFILIATED AWARD (GUENTER & CORDULA PAETZOLD FELLOWSHIP) :**
Vivian Zhu
- **BC GRADUATE STUDENT AWARD :**
Mohammad Ghodsi

POSTDOCTORAL FELLOWS
TOTAL: 34 TRAINEES

RESIDENCY PROGRAM

• DIAGNOSTIC & MOLECULAR PATHOLOGY	22
• GENERAL PATHOLOGY	0
• NEUROPATHOLOGY	2
• HEMATOPATHOLOGY	4
• MEDICAL MICROBIOLOGY	8
• MEDICAL BIOCHEMISTRY	1
• AFC-TRANSFUSION MEDICINE	2
• AFC-PEDIATRIC & PERINATAL PATHOLOGY	1

TOTAL: #40 TRAINEES

FELLOWSHIPS

• GYNECOLOGICAL PATHOLOGY	1
• HEAD & NECK PATHOLOGY	1
• BONE & SOFT TISSUE PATHOLOGY	1
• GASTROINTESTINAL & LIVER PATHOLOGY	2
• BREAST PATHOLOGY	3
• INFECTION PREVENTION & CONTROL (IPAC)	1
• ANTIMICROBIAL STEWARDSHIP	1
• GENITOURINARY PATHOLOGY	1
• MEDICAL MICROBIOLOGY	1
• ADVANCED HEMATOPATHOLOGY & CANCER GENETICS DIAGNOSTICS	1

TOTAL: #13 TRAINEES

BMLSc PROGRAM

• PROGRAM COURSES (PATH:15; NON PATH: 3)	18
• PROGRAM CREDITS	65
• LECTURE HOURS	537hrs
• OTHER TYPES OF INSTRUCTION	420hrs

TOTAL: #36 STUDENTS : 99 INSTRUCTORS
(FACULTY, TECHNOLOGISTS, OTHERS)

BMLSc MAJOR AWARDS

- BMLSC GRADUATES' CHOICE FOR TEACHING EXCELLENCE AWARD:
Dr. Sophia Park
Dr. Morgan Alford and
Ms. Jennifer Xenakis
- THE REID MEMORIAL CUP:
Ms. Jenny Tai

UNDERGRADUATE COURSES

COURSE	#CREDITS	#STUDENTS
• PATH 375.001	3	88
• PATH 375.002	3	76
• PATH 417	3	22
• PATH 437	3	1
• PATH 438	6	7

TOTAL: 194 STUDENTS : 18 CREDITS

INFECTION PREVENTION AND CONTROL CERTIFICATE

COURSE	#CREDITS	#STUDENTS
• PATH 451	3	11
• PATH 477	3	3

TOTAL: 14 STUDENTS : 6 CREDITS

POLQM 2024 COURSES**LABORATORY QUALITY MANAGEMENT (LQM)**

Laboratory Quality Management (LQM) 2024 program participants: 72.
31 are from Canada; 41 are international

(AST&I) 2024

Antimicrobial Susceptibility Testing and Interpretation (AST&I) 2024 program participants: 27.
18 are from Canada; 9 are from outside of Canada representing 7 countries

TRAINING AND ROTATION SUMMARY FOR MEDICAL STUDENTS AND RESIDENTS IN 2024

This section provides a comprehensive summary of the training and rotation activities within the Department of Pathology and Laboratory Medicine at UBC for the year 2023. It includes detailed information on the number of medical students, residents, clinical fellows, and teaching faculty across various hospital sites and specializations.

Total number of medical students trained at each site:

Hematopathology

Site	Students	Preceptors
BCCH	3 students	4 preceptors
VGH	3 students	9 preceptors
SPH	5 students	4 preceptors
RCH/ SMH	5 students	8 preceptors

Neuro-pathology

Site	Students	Preceptors
VGH	7 students	5 preceptors

Forensics

Site	Students	Preceptors
ARH	7 students	2 preceptors
BH	6 students	3 preceptors

Microbiology

Site	Students	Preceptors
BCCH	4 students	5 preceptors
SPH	5 students	6 preceptors
VGH	3 students	5 preceptors

DMP

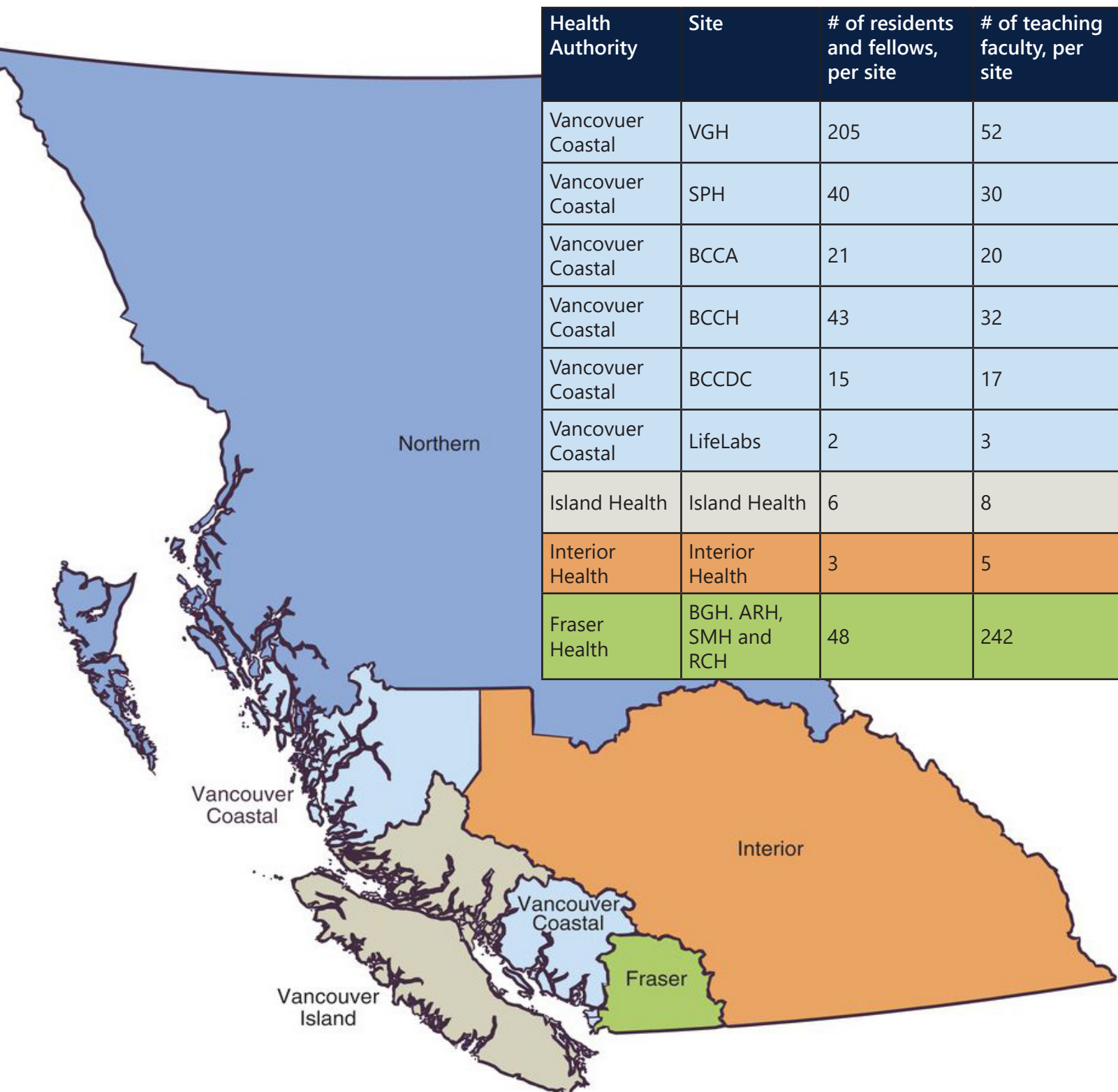
Site	Students	Preceptors
VGH	23 students	26 preceptors

LCG (Lab Cancer Genetics)

Site	Students	Preceptors
VGH	1 students	1 preceptors

Number of Residents and Fellows Trained or Rotated by Site in 2024.

Numbers represent training instances by location. Residents and fellows are counted for each rotation block completed at a site (e.g., a resident completing 3 blocks at VGH is counted 3 times).



FACULTY & STAFF 2024-25

TOTAL: 462 FACULTY MEMBERS (+28 ASSOCIATE MEMBERS)

NEARLY
BALANCED
GENDER
DISTRIBUTION

FACULTY GENDER COMPOSITION

(excluding associate members, PDF, Research Associates, and Emeritus)



52% MALE

Men predominate in academic tenure tracks with 71% representation



48% FEMALE

Strong female clinical leadership: 58% of Clinical Professors and 69% of Clinical Associate Professors are women.

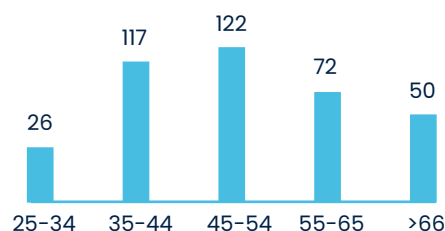
69% OF FACULTY
HOLD CLINICAL
APPOINTMENTS
- SHOWCASING
ACTIVE BEDSIDE
TEACHING AND
PATIENT CARE

FACULTY BY RANK

• ASSISTANT PROFESSOR		12
	(incl partner + Honorary Assistant Professor)	
• ASSOCIATE PROFESSOR		5
	(incl grant tenure, partner, tenure)	
• PROFESSOR		25
	(incl tenure, grant tenure, partner)	
• ADJUNCT PROFESSOR		11
• CLINICAL INSTRUCTOR		105
• CLINICAL ASSISTANT PROFESSOR		98
• CLINICAL ASSOCIATE PROFESSOR		64
• CLINICAL PROFESSOR		53
• EMERITI (CURRENTLY WITH UBC)		17
• HONORARY / SENIOR LECTURER		3
• AFFILIATE		3
• ASSOC. PROF. OF TEACHING + SESSIONAL LECTURER		3
• PDF/CLINICAL FELLOW		49
• RESEARCH ASSOCIATE		12
	((11) + Honorary Research Associate (1))	
• ASSOCIATE MEMBERS		28
• VISITING FACULTY		2

STRONG
MID-CAREER
EXPERTISE: 62%
OF FACULTY ARE
IN THEIR PRIME
PRODUCTIVE
YEARS (35-54)

FACULTY BY AGE



FACULTY BY DEGREE

11 FACULTY MEMBERS WITH MD MSc & PhD

MD:
231MSc:
95MD/
PhD:
63PhD:
190

DEGREE COUNT (EXCLUDING PDF, RESEARCH ASSOCIATE, ASSOCIATE MEMBERS, VISITING MEMBERS)

STAFF APPOINTMENTS

CUPE 2950 11

M&P-AAPS 31

NON UNION TECHNICIANS AND RA 50

STUDENT SERVICES APPOINTEES/
STUDENT EMPLOYEES 71

163

FACULTY APPOINTMENTS

ACADEMIC 43

CLINICAL 320

EMERITI 17

AFFILIATE, HONORARY, ADJUNCT,
VISITORS AND SESSIONAL LECTURER 22

PDF, CLINICAL FELLOWS, RA 60

462

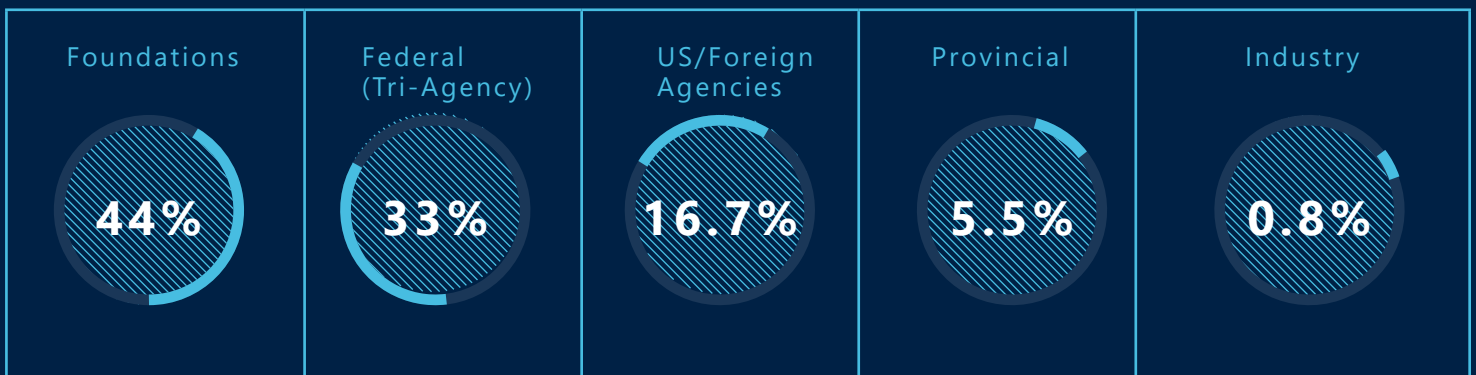
FINANCIAL PORTFOLIO 2024-25

// SUCCESS

70.6M

RESEARCH FUNDS

\$26,060,331.04



• RESEARCH FUNDS

2024/25

1. FEDERAL (New Tri-Agency grants)	\$8,587,853.50
2. FOUNDATIONS (Higher due to BCKDF funding (\$1M), JELF funding (\$1M))	\$11,478,710.51
3. INDUSTRY	\$213,107.20
4. PROVINCIAL	\$1,439,735.32
5. US/FOREIGN AGENCIES (Higher due to USA DOD funding (Wellington))	\$4,340,924.51
GRAND TOTAL	\$26,060,331.04

PERSONNEL AWARDS

\$3,331,924.63

35.7%

• CHAIR

45.3%

• FELLOWSHIP

19.0%

• INVESTIGATORSHIP

• PERSONNEL AWARDS

2024/25

1. CHAIR	\$1,189,500.00
2. FELLOWSHIP (Higher due to Banting Postdoctoral Fellowships Program)	\$1,510,424.62
3. INVESTIGATORSHIP	\$632,000.00
GRAND TOTAL	3,331,924.63

DEPARTMENT FUNDS

\$41,211,335

• DEPARTMENT FUNDS

2024/25

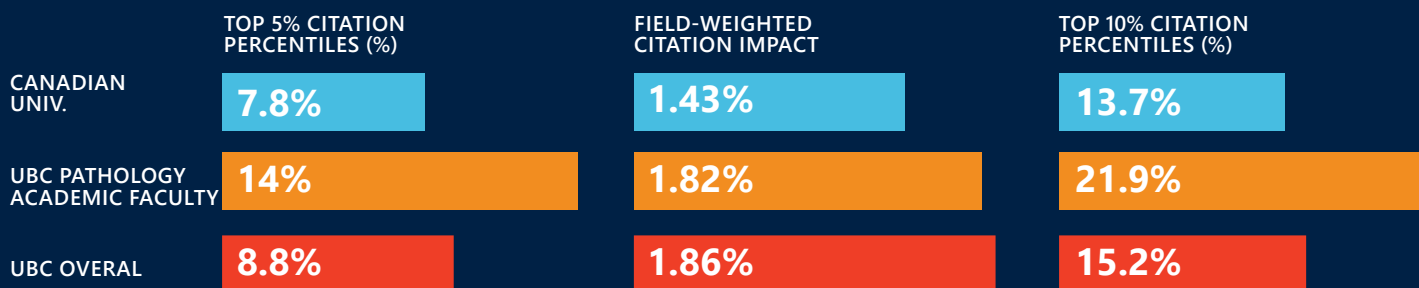
1. GENERAL PURPOSE OPERATING FUNDS	\$6,676,372.95
2. GENERAL PURPOSE OPERATING FUNDS - DEPT UNRESTRICTED ACCOUNTS (Higher Faculty Renewal/Dean's Commitment funding)	\$1,043,961.04
3. GENERAL PURPOSE OPERATING FUNDS- FEE FOR SERVICE	\$1,972,552.33
4. GENERAL PURPOSE OPERATING FUNDS - SALARY COST RECOVERY	\$4,160,551.82
5. SPECIFIC PURPOSE FUNDS	\$957,040.74
6. ENDOWMENT FUNDS	\$340,525.08
7. RESEARCH AWARDS	\$957,040.74
GRAND TOTAL	\$41,211,335

RESEARCH METRICS OF OUR ACADEMIC FACULTY (2024)

To assess the research impact of the Department of Pathology and Laboratory Medicine, we created a custom group in SciVal composed exclusively of our academic (non-clinical) faculty members. This group was manually defined to ensure accuracy and completeness.

We then benchmarked this custom group ("path-faculty-ubc") against: The University of British Columbia (UBC) overall and The national average for Canadian universities and colleges. All comparisons are based on Scopus-indexed scholarly output for the year 2024, using SciVal's benchmarking and collaboration analytics.

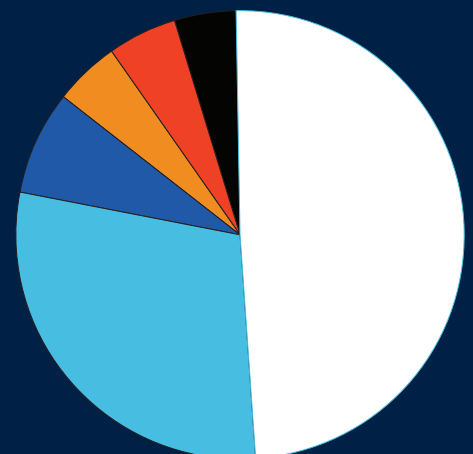
PUBLICATION QUALITY AND IMPACT METRICS



These metrics indicate that our faculty are consistently publishing in **high-impact journals**. With 14% of publications ranked in the **top 5% worldwide** by citation percentile and an **FWCI of 1.82**, the department significantly outperforms the Canadian and UBC averages. An FWCI above 1.0 indicates above-average citation impact, adjusted for field and publication year.

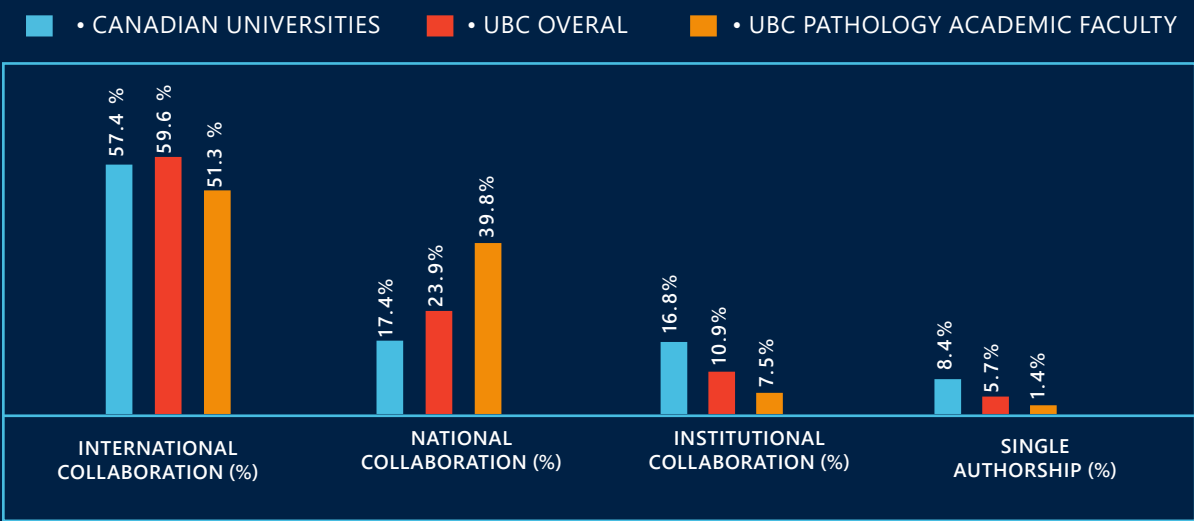
SUBJECT AREA STRENGTH

Medicine:	● 69.2%
Biochemistry, Genetics, and Molecular Biology:	● 40.7%
Immunology and Microbiology	● 10.7%
Smaller but notable contributions exist in Neuroscience, Chemistry, Physics, and Multidisciplinary areas	● Chemistry (7.1%) ● Physics and Astr... (5.0%) ● Multidisciplinary (6.0%)



*Note that one publication may be associated with more than one subject area, so percentages do not total 100%.

COLLABORATION PROFILE: COMPARING INSTITUTIONS



Our faculty exhibit a strong national collaboration rate (39.8%), far exceeding the UBC and national benchmarks. While international collaborations (51.3%) are slightly lower than UBC overall, they still represent a majority of our research. The low percentage of single-authored works (1.4%) reflects the collaborative and interdisciplinary nature of our department’s research output.

COLLABORATION IMPACT BREAKDOWN (UBC PATHOLOGY)

Collaboration Type	% of Publications	Publications	Citations	Citations per Publication	FWCI
1. International Collaboration	51.2%	143	883	6.2	2.46
2. National Collaboration	39.8%	111	237	2.1	0.93
3. Institutional Collaborationn	7.5%	21	45	2.1	2.22
4. Single Authorship	1.4%	4	14	3.5	1.66

The highest impact comes from international collaborations, with a Field-Weighted Citation Impact (FWCI) of 2.46 and over 6 citations per publication. Even institutional collaborations show high impact (FWCI: 2.22), while national-only works have comparatively lower citation performance (FWCI: 0.93).

All data are from Scopus via SciVal, for 2024

RESEARCH METRICS OF OUR FACULTY (2024)

This section highlights the significant research contributions of our faculty members through comprehensive bibliometric analysis. Metrics are sourced from Scopus. The following tables showcase faculty members with the highest citation counts, representing the diversity of research excellence across our department.

Academic

Rank	Faculty Name	Total Citations*	H-Index	Research Impact (FWCI)**	Top 25% Papers	Top 25% Journals
1	David Huntsman	116,933	164	5.88x	73.7%	87.8%
2	Samuel Aparicio	83,896	115	4.20x	67.0%	94.4%
3	Torsten Nielsen	67,565	109	3.96x	73.9%	89.0%
4	Ian Mackenzie	47,845	96	3.71x	76.7%	86.5%
5	Peter Watson	38,967	90	1.59x	44.3%	31.0%
6	Andrew Churg	38,830	110	2.27x	53.2%	86.4%
7	Marcel Bally	32,733	92	1.44x	58.9%	89.1%
8	Wan Lam	31,147	89	1.15x	55.1%	65.9%
9	Poul Sorensen	31,013	90	2.87x	71.6%	82.2%
10	Steve E. Kalloger	29,306	65	1.82x	58.1%	73.8%

*Google Scholar lifetime citations **World average = 1.0

Citations: The number of times other researchers reference your work. Higher = more influence.
H-Index: Combines productivity and impact. H-index of 50 = 50 papers each cited 50+ times.
FWCI (Research Impact): How often your work is cited vs. world average. 1.0 = average, 3.0+ = elite.
Top 25% Papers: Percentage of your papers ranking among most-cited worldwide.
Top 25% Journals: Percentage published in highest-ranked journals (like Nature, Science).

Clinical

Patrick Tang #1

Citations: 15,284
h-index: 59
i10-index: 159

Linda Hoang #2

Citations: 7,153
h-index: 45
i10-index: 138

Muhammad Morshed #3

Citations: 6,984
h-index: 39
i10-index: 111

David Goldfarb #4

Citations: 4,754
h-index: 33
i10-index: 69

Andre Mattman #5

Citations: 4,654
h-index: 35
i10-index: 65

Daniel Holmes #6

Citations: 3,615
h-index: 35
i10-index: 81

Mari DeMarco #7

Citations: 3,412
h-index: 28
i10-index: 47

Ed Pryzdial #8

Citations: 3,315
h-index: 31
i10-index: 56

Mark Romney #9

Citations: 2,767
h-index: 30
i10-index: 55

Richard Crawford #10

Citations: 1,800
h-index: 24
i10-index: 48

Gordon Ritchie #11

Citations: 1,758
h-index: 23
i10-index: 32

Karen R Sherwood #12

Citations: 606
h-index: 11
i10-index: 13

EXTERNAL AWARDS 2024

**MUHAMMAD MORSHED**, Clinical Professor

– Elected Fellow of The World Academy of Sciences (TWAS)

**POUL SORENSEN**, Professor

– Awarded 2024 Doctors of BC Terry Fox Medal

**YASIR MOHAMUD**, PDF

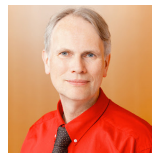
– Inaugural CIHR Research Excellence, Diversity, and Independence Early Career Transition Award

**ARUN GARG**, Clinical Professor

– Fraser Health Lifetime Achievement Award

**GANG WANG**, Clinical Associate Professor

– Michael Smith Health Research BC Health Professional Investigator Award

**TORSTEN NIELSEN**, Professor

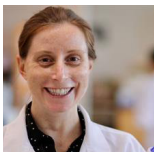
– Elected to the Royal Society of Canada

**MEL KRAIDEN**, Professor

– CACMID John G. FitzGerald Award

**CHERYL WELLINGTON**, Professor

Elected as Canadian Academy of Health Sciences (CAHS) Fellow

**CATHERINE HOGAN**, Assistant Professor

– AMMI Canada New Investigator Award

**JONATHAN GUBBAY**, Clinical Associate Professor

– CACMID Mentorship Award

**YONGJIN PARK**, Assistant Professor

– Named Canada Research Chair in Integrative Causality Inference of Cancer Mechanisms (Tier 2)

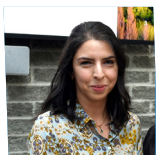
**CHRISTIAN STEIDL**, Professor

– Karl Musshoff Prize 2024 for outstanding results & contributions to the field of Hodgkin lymphoma

**WAN LAM**, Professor

– Long Service Award, BC Cancer, PHSA (25 years)

DEPARTMENT OF PATHOLOGY & LABORATORY AWARDS 2024



NARGES HADJESFANDIARI, Sessional Instructor, BMLSc

– Education: Undergraduate Education and Graduate Education (VGH) Award



DIANA IONESCU, Clinical Professor

– Education: Resident and Fellow Education Award



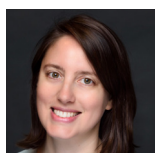
ANDY ROTH, Assistant Professor

– Research And Discovery: Faculty researchers who are within 7 years of their faculty appointment



CHERYL WELLINGTON, Associate Professor

– Research And Discovery: All other Faculty



MARI DEMARCO, Clinical Professor

– Clinical Service: Clinical Service in Academic Settings/University Hospitals



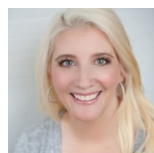
AGATHA JASSEM, Clinical Associate Professor

– Clinical Service in other settings



DIRK VAN NIEKERK, Clinical Assistant Professor

– David Hardwick Lifetime Achievement Award (Golden Bow Tie Award)



SHELBY DOUGLAS, HR Assistant Staff

– Service Award: Administrative Staff



CALEB (PC) LEE, Provincial Coordinator, EWQA

– Staff Service Award: Technicians and technologists



HELENE COTE Professor

– Community Engagement and Philanthropy Award



LUCY (YUQIN) LI

– Trainee Award: MSc Student (Supervisor: Dr. David Huntsman)



RAZIEH BANIJAMALI

– Trainee Award: PhD Student or Candidate (Supervisor: Dr. Honglin Luo)



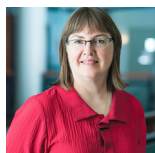
KEVIN SHOPSOWITZ

– Trainee Award: Post-Doctoral Fellow, Fellow, or Resident



CORREE LAULE, Professor

– Mentorship Award



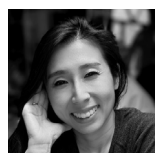
DANA DEVINE, Professor

– Dana Devine Equity, Diversity, and Inclusion



DON BROOKS, Professor

– Don Brooks MVP



SOPHIA PARK, Clinical Associate Professor

– BMLSc Students Award: Teaching Excellence Award



JAMES LAN, Assistant Professor

– BMLSc Students Award: Teaching Excellence Award

DEPARTMENT OF PATHOLOGY & LABORATORY AWARDS 2024 cont.



NARGES HADJESFANDIARI, Sessional Instructor BMLSc

– BMLSc Students Award: Teaching Excellence Award



MOHAMMAD BAHMANYAR, Clinical Assistant Professor

– Dr Melvyn Bernstein Resident Teaching Award (Hematopathology)



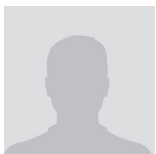
CARL REN, Clinical Instructor

– Dr. Roberta Miller Resident Teaching Award



CLAUDINE DESRUISSEAU, Clinical Assistant Professor

– Dr Melvyn Bernstein Resident Teaching Award – (Medical Microbiology)



KAREN UNG, Clinical Instructor

– Diagnostic & Molecular Pathology Community Resident Teaching Award – new this year

UBC & FACULTY OF MEDICINE AWARDS 2024



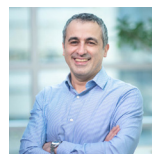
JOANNE WOUTERSE, JENNIFER XENAKIS, JENNY TAI, AND JULIANA LI

– 2024 President's Staff Award for Collaborative Excellence



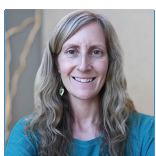
GENEVIEVE MACMILLAN, Director of Pathology & Laboratory Medicine

– Faculty of Medicine, Dean's Staff Award



ALI BASHASHATI, Associate Professor

– Faculty of Medicine Distinguished Achievement Awards - Overall Excellence — Early Career



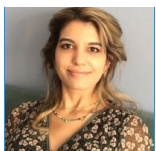
CORNELIA LAULE, Professor

– Faculty of Medicine, Killam Teaching Prize



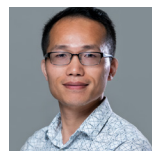
SAM APARICIO, Professor

– Faculty of Medicine, Distinguished Achievement Awards - Overall Excellence — Senior Faculty



BUSRA TURGU, PDF in Dr. Sorensen Lab

– Faculty of Medicine, Killam Graduate Teaching Assistant Award



YEMIN WANG, Assistant Professor

– 2024 UBC Science Co-op Supervisor Recognition Award, UBC

NEW APPOINTMENTS, RETIREMENTS, AND PROMOTIONS

NEW CLINICAL FACULTY MEMBERS IN 2024

We are pleased to welcome the following new clinical faculty members who have joined the Department of Pathology and Laboratory Medicine in 2024. Their expertise and dedication will significantly contribute to our mission of excellence in education, research, and clinical service.

PROVINCIAL HEALTH SERVICES AUTHORITY

BC Cancer

- **Kaur, Arshvir**, Clinical Instructor
- **Mojarad, Bahareh**, Clinical Assistant Professor

BC Children's and Women's

- **Turley, Elona**, Clinical Associate Professor
- **Yuan, Christopher**, Clinical Instructor
- **Orton, Dennis**, Clinical Assistant Professor

BC Centre for Disease Control

- **Airo, Adriana**, Clinical Instructor
- **Patel, Prital**, Clinical Assistant Professor

PHSA

- **Awan, Shuja**, Clinical Instructor

VANCOUVER COASTAL HEALTH

St. Paul's Hospital

- **Dabiri, Bahram**, Clinical Instructor
- **Dokouhaki, Pouneh**, Clinical Associate Professor
- **Froberg, Helena**, Clinical Instructor
- **Leung, Crystal**, Clinical Instructor
- **Li, Peihao (Richard)**, Clinical Instructor
- **Singh, Harmanjot**, Clinical Instructor
- **Tang, Patrick**, Clinical Professor
- **Wagland, Kaelyn**, Clinical Instructor
- **Yang, Hua**, Clinical Associate Professor
- **Yi, Rong**, Clinical Instructor

Vancouver General Hospital

- **Nouri, Kazem**, Clinical Assistant Professor
- **Liu, Suefay**, Clinical Assistant Professor
- **Ung, Karen**, Clinical Instructor
- **Shopsowitz, Kevin**, Clinical Assistant Professor

FRASER HEALTH

Surrey Memorial Hospital

- **Lee, Jonathan**, Clinical Instructor
- **Schick, Brian**, Clinical Instructor
- **Xu, Minghong**, Clinical Instructor

NORTHERN HEALTH

University Hospital of Northern BC

- **Maung, Raymond**, Clinical Assistant Professor

LIFELABS

University Hospital of Northern BC

- **Yeung, Eugene**, Clinical Assistant Professor

NEW ACADEMIC FACULTY MEMBERS IN 2024

- **Dr. Alford, Morgan**, Sessional Instructor BMLSc Program
- **Dr. Katey Enfield**, Assistant Professor Dept of Pathology & Laboratory Medicine | Scientist in the Department of Integrative Oncology at the BC Cancer Research Institute



FACULTY PROMOTIONS IN 2024

Promotion to Clinical Professor

- Dr. Li Wang
- Dr. Victor Leung
- Dr. Michelle Wong
- Dr. Alexandra Stefanovic
- Dr. Bojana Rakic

Promotion to Clinical Associate Professor

- Dr. Antonio Subtil De'Oliveira
- Dr. Karen Sherwood
- Dr. Angela Fung
- Dr. Michael Chen

Promotion to Clinical Assistant Professor

- Dr. Susanna McRae

Promotion to Professor

- Dr. Cornelia (Corree) Laule

Promotion to Professor (Partner)

- Dr. William Lockwood

Promotion to Associate Professor

- Dr. Ali Bashashati

RETIRED FACULTY MEMBERS IN 2024

We extend our heartfelt gratitude and best wishes to the following retired faculty members for their years of dedicated service and contributions to the department.

- **Chun Seow**, Professor Emeritus
- **Hayes, Malcolm**, Clinical Professor
- **Jones, Edward**, Clinical Professor
- **Kelly, James**, Clinical Professor
- **Loyola, Vicente**, Clinical Instructor
- **Mueller, Rosemary**, Clinical Instructor
- **Power, Robert**, Clinical Associate Professor
- **Mori, Julie**, Clinical Instructor (Left position)

IN MEMORIAM

In 2024, we mourned the loss of three esteemed faculty members: **Dr. John O’Kusky, Dr. Dana Devine, and Dr. Peter Schubert**. We honor their contributions to our department and their lasting impact on the field of pathology and laboratory medicine.

EXECUTIVE LEADERSHIP

2024 Achievements



DR. CHERYL WELLINGTON
VICE CHAIR OF RESEARCH

Professor, Department of Pathology and Laboratory Medicine, Faculty of Medicine, UBC



DR. DAVID HUNTSMAN
VICE CHAIR OF INNOVATION AND KNOWLEDGE TRANSLATION

Professor, Department of Pathology and Laboratory Medicine, Faculty of Medicine, UBC



DR. HÉLÈNE CÔTÉ
VICE CHAIR OF SCIENTIFIC EDUCATION

Professor, Department of Pathology and Laboratory Medicine, Faculty of Medicine, UBC



DR. SUZANNE VERCAUTEREN
DIRECTOR, EQUITY, DIVERSITY AND INCLUSION

Professor, Department of Pathology and Laboratory Medicine, Faculty of Medicine, UBC



DR. MIKE NIMMO
VICE CHAIR OF CLINICAL EDUCATION

Clinical Professor, Department of Pathology and Laboratory Medicine, Faculty of Medicine, UBC



DR. ZU-HUA GAO
DEPARTMENT HEAD

Professor, Department of Pathology and Laboratory Medicine, Faculty of Medicine, UBC



GENEVIEVE MACMILLAN
DIRECTOR, HUMAN RESOURCES AND ADMINISTRATION

Head Office



EXECUTIVE SUMMARY

The year 2024 stands as a testament to our department's multifaceted excellence, with achievements spanning the full spectrum of our academic mission. Our research enterprise continues to thrive with remarkable funding success, while our educational programs have evolved to meet the changing needs of healthcare professionals in an increasingly digital and interconnected world.

1

RESEARCH PORTFOLIO ACHIEVEMENTS

Our research portfolio reached new heights in 2024, building upon a decade of sustained growth and innovation. With \$250 million in competitive grant funding secured over the past ten years, we have established ourselves as a powerhouse in translational medical research. Our faculty consistently demonstrates excellence with a 22% success rate on grant applications over this period, significantly exceeding national averages and reflecting the quality and impact of our research proposals.

In 2024-25, our research funding reached \$26.1 million—a solid 15% increase from the previous year. This growth shows the continued strength of our research work, which spans areas from cancer treatment to digital pathology.

Foundations provided our largest funding source at \$11.5 million, including major grants from BCKDF (\$1M) and other foundations. Federal agencies contributed \$8.6 million through new Tri-Agency grants, while international partners provided \$4.3 million, particularly from the USA Department of Defense. Provincial funding added \$1.4 million, and industry partnerships contributed \$213,000.

Our faculty also received \$3.3 million in personal awards, including research chairs, fellowships (including prestigious Banting Postdoctoral Fellowships), and investigatorships. These awards recognize the excellence of our research team.

Pathology Grant Application Practicum: Building Research Excellence:

A flagship achievement was the remarkable success of our Pathology Grant Application Practicum (PGAP), now in its second year of operation. This innovative workshop-based program represents a unique approach to research capacity building, offering 10 hours of formal instruction in the preparation and evaluation of competitive seed grant proposals worth \$15,000 for one-year periods.

PGAP serves a critical need in supporting early career faculty, clinical faculty new to research, and senior trainees in transitional roles. The program's strength lies in its interactive methodology, allowing participants to experience both applicant and reviewer perspectives while providing essential core skills training that complements program-specific objectives and facilitates synergy between PALM academics and clinicians.

The 2024 cohort attracted 15 participants representing the full spectrum of our research community: 4 Clinical Assistant Professors (including 1 from outside Vancouver), 1 Clinical Associate Professor, 4 Postdoctoral Fellows, 4 Graduate Students, and 1 Staff member. With 9 female and 6 male participants, the program successfully achieved its goal of engaging both trainees and clinical faculty in meaningful research development. The program's impact was demonstrated through measurable outcomes: four grant applications were

submitted by participants, with two receiving full funding of \$15,000 each. Dr. Shannon Healy and Dr. Maziar Riazzy were recognized as the 2024 PGAP award recipients. The collaborative nature of the program was exemplified by participants taking leadership roles—two served as panel reviewers, two as readers, and one as Scientific Officer at the panel review meeting. Five volunteer faculty members (Lam, Laule, Cote, Venturutti, Park) provided essential support, demonstrating the program’s community-building impact.

PGAP 2025 has shown remarkable growth, maintaining 15 participants while doubling grant applications to eight submissions. The cohort

includes 2 Clinical Assistant Professors, 2 Assistant Professors, 2 staff scientists, 3 postdoctoral fellows, and 6 graduate students (8 female, 7 male), with winners to be announced at Pathology Day 2025. Notably, previous award recipients Dr. Healy and Dr. Riazzy have returned as reviewers, creating a sustainable mentorship cycle that strengthens our research community.

This program represents a significant departmental investment in research excellence and exemplifies our commitment to developing the next generation of research leaders while fostering collaboration across our diverse academic and clinical faculty.

2 EDUCATIONAL IMPACT

Our commitment to training the next generation of medical professionals and researchers spans across all our educational programs, from undergraduate to postdoctoral levels. Our robust enrollment includes **65-70 graduate students** across our research programs and up to **48 students in our Bachelor of Medical Laboratory Sciences (BMLSc)** program. Additionally, approximately **33 post-doctoral fellows** contribute to our vibrant research environment through their advanced research projects and collaborations.

The academic excellence of our students was recognized through numerous awards, with **40 graduate students receiving external and UBC awards**, including prestigious Vanier Canada Graduate Scholarships and CIHR awards. This year, **13 graduate students** successfully completed their degrees, with 6 earning MSc degrees and 7 achieving their PhDs, ready to advance to leadership positions in academia, industry, and clinical practice².

BMLSc Program Excellence: A major milestone was the successful recruitment of **Dr. Añuli Uozie** as the new Director of the BMLSc Program, effective May 1st, 2025. The program demonstrated strong demand by filling all **24 seats** in the fall 2024 intake. The co-op program launch exceeded expectations,

with half of the 2024 intake cohort applying for co-op placements, providing students with valuable hands-on experience while strengthening our partnerships with healthcare institutions across British Columbia. We also celebrated our BMLSc community by holding an alumni reunion and gained approval for the new **PATH 412: “Advanced Techniques in Pathology and Laboratory Medicine”** course, which will be offered starting January 2026.

Graduate Program Innovation: Under the leadership of Dr. Hélène Côté, Vice-Chair of Scientific Education, we developed and approved a new **PATH 458T Directed Studies course** on “Biotechnology – Translation and commercialization of research,” offered for the first time in spring/summer 2025. We modernized our statistics education by incorporating Python programming alongside R in the **PATH 548L course** on study design and statistics. To recognize teaching excellence, we introduced new Teaching Awards for faculty in the graduate program and gave PhD students more flexibility through the new **STEP and LEAP** options for comprehensive exams. We strengthened our alumni connections by holding the first PALM Graduate Program alumni reunion in May 2024, and implemented a revamped peer evaluation of teaching system under **Dr. Amanda Bradley’s** leadership.

CLINICAL LEADERSHIP

Our clinical training programs continued to produce exceptional healthcare professionals, with **9 clinical fellows and 6 residents** graduating across multiple specialties in 2024. These graduates now serve in leadership positions throughout Canada and internationally, extending our department's impact far beyond our immediate region.

Training Program Graduates:

Residents (6):

- **Diagnostic & Molecular Pathology:** Dr. Ardalan Akbari, Dr. Collin Pryma, Dr. Jamie Lee, Dr. Deepak Toor
- **Hematopathology:** Dr. Kevin Shopsowitz
- **Medical Microbiology:** Dr. Suefay Liu
- **Pediatric & Perinatal AFC:** Dr. Cornelia Thoeni

Clinical Fellows (9):

- Dr. Mona Alfaraidi (Gynecologic Pathology, Supervisor: Dr. Lien Hoang)
- Dr. Ayman Aldeheshi (Gastrointestinal Pathology, Supervisor: Dr. David Schaeffer)
- Dr. Liqa Al-Mulla (Head & Neck Pathology, Supervisor: Dr. Tony Ng)
- Dr. Jonathan Lee (Dermatopathology, Supervisor: Dr. Richard Crawford)
- Dr. Ohud Alkinani (IPAC, Supervisor: Dr. Chris Lowe)
- Dr. Ashary Bayan (Breast Pathology, Supervisor: Dr. Michael Chen)
- Dr. Samiah Moalwi (Head & Neck Pathology, Supervisor: Dr. Tony Ng)
- Dr. Bushra Alhothli (Medical Microbiology, Supervisor: Dr. Chris Lowe)
- Dr. Maggie Maung (Breast Pathology, Supervisor: Dr. Weiwei Chen)

Clinical Promotions:

Clinical Assistant Professor: Susanna McRae (SPH)

Clinical Associate Professor: Michael Chen (Royal Jubilee), Angela Fung (SPH), Karen Sherwood (VGH),

Antonio Subtil DeOliveira (Royal Jubilee)

Clinical Professor: Victor Leung (SPH), Li Wang (CWH), Bojana Rakic (CWH), Alexandra Stefanovic (SPH), Michelle Wong (Royal Columbian)

New Clinical Appointments (25 total):

Clinical Instructors (14): Shuja Awan (PHSA), Bahram Dabiri (SPH), Brian Schick (SMH), Helena Froberg (SPH), Jonathan Lee (SMH), Crystal Leung (SPH), Peihao Li (SPH), Kren Ung (Richmond Hospital), Connie Liao (RCH), Kaely-Rae Wagland (SPH), Harmajot Sing (SPH), Christopher Yuan (VGH), Adriana Airo (BCCDC), Arshvir Kaur (VGH)

Clinical Assistant Professors (7): Kevin Shopsowitz (VGH), Suefay Liu (VGH), Dennis Orton (CWH), Prital Patel (BCCDC), Kazem Nouri (VGH), Bahareh Adhami Mojarad (BCCA), Eugene Yeung (Lifelabs)

Clinical Associate Professors (3): Pouneh Dokouhaki (SPH), Elona Turley (CWH), Hua Yang (SPH)

Clinical Professors (2): Patric Tang (SPH), Nickolas Myles (SPH)

Honoring Distinguished Service:

We recognized the retirement of three distinguished faculty members - **Maria Victoria Monsalve, William Schreiber, and Chun Seow** - who collectively contributed decades of clinical excellence and mentorship to our programs.

Our commitment to excellence in clinical service was further validated through multiple departmental awards, including **Dr. Tony Ng receiving the Excellence in Clinical Service Award for Clinical Services in Academic Settings/University Hospitals**. These achievements underscore our department's continued leadership in delivering exceptional patient care while training the next generation of pathologists and laboratory medicine specialists.

4

STRATEGIC PLAN IMPLEMENTATION

Our strategic plan for 2024 focused on three core pillars: educational innovation, research excellence, and clinical leadership. The implementation of these priorities has yielded transformative results across all areas of our mission, demonstrating our commitment to creating an accountable organization that delivers measurable outcomes.

Education Pillar: Preparing Future Leaders:

Scientific Education Transformation: One of our most significant accomplishments was successfully recruiting **Dr. Añuli Uzozie** as the new Director of our BMLSc program, effective May 2025. Dr. Uzozie brings extensive experience in laboratory medicine education and a vision for integrating emerging technologies into undergraduate training. Her appointment represents our commitment to maintaining the BMLSc program's position as Canada's premier undergraduate program in laboratory medicine.

The evolution of our curriculum reflects the changing landscape of laboratory medicine, with new courses designed to prepare students for careers in an increasingly digital and data-driven field. We introduced cutting-edge courses including **PATH 548O (Big Data Analytics & Visualization)**, **PATH 548B (Bioinformatics & A.I.)**, and **PATH 548T (Biotechnology: Translation and Commercialization)**. These additions ensure our graduates are equipped with the computational and analytical skills essential for modern laboratory practice.

The implementation of our co-op program for BMLSc students has exceeded expectations, with **12 students applying for the May 2025 placements**. This experiential learning opportunity provides students with real-world laboratory experience while building stronger connections between our academic programs and healthcare partners across the province.

Graduate Program Innovation: Our graduate programs underwent significant enhancements designed to provide students with greater flexibility and more relevant training opportunities. The development and approval of **PATH 458T, a new Directed Studies course on "Biotechnology: Translation and Commercialization,"** reflects

our commitment to preparing students for careers that bridge academic research and commercial application.

We revolutionized our approach to comprehensive examinations by introducing the **STEP and LEAP** options, giving PhD students more agency to maximize the value of this critical milestone. This innovation recognizes that different students have different learning styles and career aspirations, allowing for more personalized approaches to doctoral training.

The integration of modern programming languages including **R and Python into our PATH 548L statistics course** ensures our students graduate with the computational skills necessary for contemporary research. We also established new Teaching Awards for faculty, recognizing excellence in graduate education and incentivizing continued innovation in pedagogy.

A highlight of the year was **our first PALM Graduate Program alumni reunion in May 2024**, which brought together graduates from across decades to share experiences and strengthen our professional network. This event demonstrated the lasting impact of our programs and the strong bonds formed within our academic community.

Enhanced Teaching Excellence: Under the leadership of **Dr. Amanda Bradley**, we implemented a revamped peer evaluation system for teaching, providing faculty with constructive feedback and support for continuous improvement in educational delivery. This initiative reflects our commitment to maintaining the highest standards in education while supporting faculty development.

Research Pillar: Advancing Scientific Discovery

Research Infrastructure Development: The creation of our comprehensive Research Dashboard

represents a major advancement in research administration and strategic planning. This system tracks ten years of funding data, providing unprecedented insight into research trends, success patterns, and opportunities for growth. The dashboard enables evidence-based decision-making for resource allocation and strategic planning while helping faculty identify potential collaborators and funding opportunities.

Our systematic **biobank asset mapping initiative** has created a comprehensive inventory of biological resources available to our research community. This effort facilitates collaboration, reduces duplication, and maximizes the value of precious biological specimens for advancing medical knowledge.

Pathology Grant Application Practicum (PGAP):

The flagship **PGAP program** represents an innovative approach to research capacity building, combining didactic instruction with hands-on experience in grant writing and peer review. **PGAP 2024 attracted 15 participants** from diverse backgrounds, including clinical assistant professors, postdoctoral fellows, graduate students, and staff. The program's inclusive approach reflects our commitment to supporting research excellence across all career stages and roles within our community.

Of the four grant applications submitted by participants, **two were funded at \$15,000 each, supporting the research of Dr. Shannon Healy and Dr. Maziar Riazzy**. The program's strength lies not only in its outcomes but also in its process, with participants gaining experience in both applicant and reviewer roles.

PGAP 2025 expanded further with 15 participants submitting eight grant applications, indicating growing confidence and engagement within our research community. The program's success has attracted attention from other departments, and we are exploring opportunities for expansion across the Faculty of Medicine.

Research and Faculty Development: As part of our commitment to enhancing diversity in faculty recruitment, we successfully recruited **Dr. Yasir Mohamud**, a promising early-career researcher from an underrepresented background. This recruitment was supported through the CIHR REDI (Research, Equity, Diversity and Inclusion) Early Career Transition Award program, which specifically aims to increase diversity in academic research positions.

Year One Departmental Priorities - Additional Achievements: Provincial Engagement and Communication

We established an eminent speaker series as part of province-wide rounds, delivering 29 lectures since September 2023 (10 in 2023, 19 in 2024). Enhanced engagement activities included annual meetings with all academic faculties and strategic visits to Island Health Pathology and Laboratory Medicine groups by department leadership.

Financial Stewardship: Through strategic management, we **successfully reduced our structural deficit**, demonstrating improved fiscal responsibility while maintaining program excellence.

Clinical Leadership Expansion: Our clinical training programs continued to produce exceptional healthcare professionals, with **9 clinical fellows and 6 residents graduating across multiple specialties**. These graduates now serve in leadership positions throughout Canada and internationally, extending our department's impact far beyond our immediate region.

Looking Forward: Building on this strong foundation, our next year priorities include launching the clinician scientist program (2 positions per year for 5 years), visiting Interior Health for expanded provincial engagement, implementing external review recommendations, and continuing successful initiatives including Pathday, province-wide rounds, and our comprehensive bulletin and annual reporting systems.

Department highlights: Celebrating achievements, milestones, and community throughout 2024.





WEEKLY DEPARTMENTAL ROUNDS 2024



Dr. Yemin Wang:
"Opportunities and challenges in studying rare cancers"
Dr. Ali Bashashati:
"AI-Assisted Cancer Biomarker Discovery in the Digital Pathology Era"



Dr. David Goldfarb:
"What's New in Number 2: Diagnostics for Diarrheal Disease"



Dr. Corree Laule & Ms. Cheryl Niamath:
"seed2STEM: Summer research program for Indigenous youth"



Dr. Nika Shakiba: "The Social rules that govern cells in embryonic society"



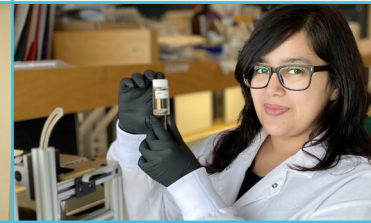
Dr. Thara Vayali:
"Gut Health: Navigating the Inner Seas"



Dr. Lauren Forgrave:
"Towards pathology-specific biomarkers of frontotemporal dementia with TDP-43 pathology"



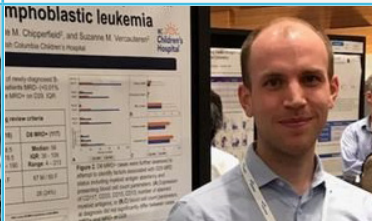
Dr. Wes Schreiber:
"Keeping track of your teaching activities – and why it matters"



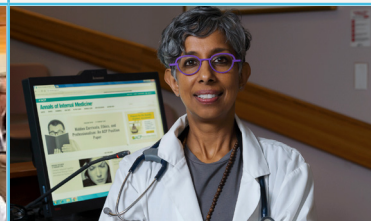
Dr. Mehwish Anwer:
"Leveraging 3D imaging and analysis tools to understand diffuse brain injury in rodents"



Dr. Mary Kinloch:
"Clinical Implementation of Homologous Recombination (HR) Testing and Morphologic Correlations for HR-deficiency in High-Grade Serous Carcinoma"



Dr. Eric McGinnis:
"Next-generation cytogenetics: Optical genome mapping in hematologic malignancies"



Dr. Anita Palepu:
"My Journey to Leadership in Medicine"



Dr. Steven Loken:
"PLMS, Partnerships, and Value in Lab Medicine: the Challenges and Opportunities in Advancing Service Coordination in BC's Lab Environment"



Zaibo Li:
"Implementation of digital pathology and AI platforms for pathology practice: gearing up for a digital workflow"



Dr. Gao, Zu-hua:
"Department Meeting"



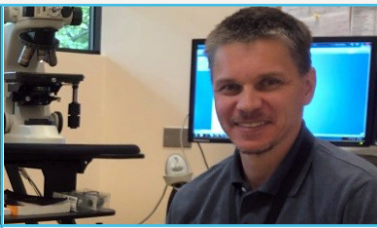
Dr. Martial Guillaud & Dr. Yasir Mohamud:
"Large-scale DNA Organization: an imaging biomarker of epithelial cancers aggressiveness"



Dr. Geraldine Walsh:
"Targeting RNA modifications in Myeloid Leukemia"



Dr. Gerald Krystal:
"The Role of Diet in Cancer Prevention"



Dr. Nick Myles:
"What is evidence-based tumor classifications? Introduction to evidence grading and mapping for pathology"



Dr. Leandro Venturutti:
"B Cell Lymphoma Modelling: From Pathogenesis to Therapeutics"



Dr. Kevin L Bennewith:
"Angiotensin receptor blockers as potential adjuvants for anti-cancer radiation therapy and immunotherapy"



Dr. Katey Enfield:
"B cell responses to lung cancer"



Dr. Tyler Smith:
"Whole Blood Coagulation Testing: Does it Belong in the Hospital Lab?"



Dr. Andrew Minchinton: *"A rollercoaster ride with hypoxia through oxygen mimetics to DNA repair inhibitors and visiting extravascular drug distribution on the journey"*



Dr. Cheryl Wellington & Dr. Mike Nimmo:
"Update on the Department's research and clinical education"



Dr. Peter Boor:
"Deep Learning 4 (Nephro) Pathology... the future begins now"



Dr. Inna Sekirov & Dr. Agatha Jassem:
"Panel Discussion on Career Planning and Job Applications"



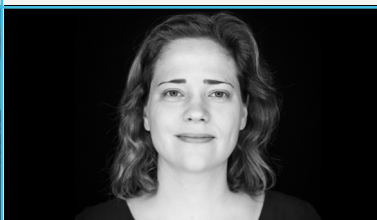
Dr. Andrew Churg:
"New Developments in Mesothelial Pathology"



Dr. Rose Hatala:
"Coaching and Feedback in the Era of Competence-by-Design"



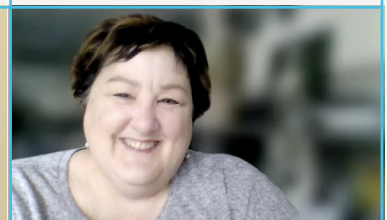
Dr. Zu-hua Gao & Dr. Hélène Côté:
"Creating an Accountable Organization: UBC Department of Pathology & Laboratory Medicine Strategic Plan Implementation 2023 - 2024"



Dr. Sabrina Leslie:
"Single-molecule Insights for Therapeutic Discovery, Development and Diagnostics: The Next Level of Resolution"



Dr. Gang Wang:
"Recent Updates and Most Encountered Questions in Uro-pathology"



Dr. Dawn McArthur:
"Competitive Research Funding Proposals, from Start to Finish"



ASSOCIATE & AFFILIATED DEPARTMENT HEADS

Our partnerships with health authorities across British Columbia demonstrate our commitment to serving patients and communities throughout the province. These collaborations strengthen our educational programs while ensuring that our expertise reaches every corner of British Columbia's healthcare system.

02



UBC CLINICAL FACULTY IN INTERIOR HEALTH

DR. ZHONGCHUAN WILL CHEN

REGIONAL ACADEMIC ASSOCIATE DEPARTMENT
HEAD, INTERIOR HEALTH AUTHORITY

EAST KOOTENAY REGIONAL HOSPITAL, CRANBROOK:

Major Service Improvements:

- Research & Innovation: **Dr. Launny Lowden's** environmental sustainability initiatives and work to reduce the lab's environmental impact has garnered provincial and national attention, presented at UBC Province-Wide Pathology Rounds. The Kootenay Lake Hospital (overseen by our pathology group) earned CAP's Green Lab Award after making changes to reduce its environmental impact.

PENTICTON REGIONAL HOSPITAL:

- **Teaching:** Medical students completed 16 weeks of elective rotations with the anatomical pathology group. The group provides monthly Gynecologic Pathology lectures to clerkship students preparing for their Obstetrics/Gynecology rotation. **Dr. Davani** taught lab diagnostic methods/utilization and transfusion reactions to UBC family medicine residents rotating at PRH.

- **Clinical Service:** Dr. Davani involved in quality improvement projects to expand space related to patient sample/injection site.

- **Research and Innovation:** Dr. Davani has a research project in progress with Cleveland Clinic (Department of Urologic pathology with Dr. R. Alaghebandan).

- **Additional Achievements:** Dr. Davani serving as of house of delegates representative for College of

KELOWNA GENERAL HOSPITAL:

Anatomical Pathology:

- **Teaching:** Medical students completed 16 weeks of elective rotations with the anatomical pathology group. The group provides monthly Gynecologic Pathology lectures to clerkship students preparing for their Obstetrics/Gynecology rotation. **Dr. Dante D'Urbano** delivered 2 lectures at the UBC SMP campus to 1st year medical students on lung pathology and bone pathology, taught 6 weeks of clinical skills workshops (3 weeks for 1st year and 3 weeks for 2nd year students), taught abdominal exam skills to 1st year medical students, and served as an OSCE evaluator for 3rd year medical students.

- **Research:** **Dr. Kyra Berg** conducted research on "Diagnostic yield and quality of EUS-guided liver biopsies in a 142 patient cohort – The Kelowna Experience" (co-authors: F Jowhari, SF Neong and K Berg), which will be presented at CDDW and ESGE conferences.

Hematopathology group:

- **Teaching:** One transfusion medicine fellow rotated through KGH for regional TM training with **Dr. Tapley**. Various medical student electives and shadowing (2 weeks). UBC SMP undergraduate medical school ECL hematology workshop teaching sessions (20 person-hours). Lecturing at undergraduate medical school courses (e.g. MEDD412).

VERNON JUBILEE HOSPITAL:

Teaching: Dr. Jason Doyle performed 100 hours of medical student teaching, including in person one on one forensic pathology electives, one lecture (to all UBC medical students) and one pathology lab (to SMP students). Other pathologists collectively participated in teaching at academic half day for UBC Southern Medical Program and supervised three medical student electives.

- **Research:** Dr. David Grynspar had authorship in four peer reviewed scientific publications. Topics of publication include upper tract findings in pediatric inflammatory bowel disease and placental phenotype in neural tube defect. The placenta glycobiology research group, which is a multi-institutional collaboration that includes Vernon Jubilee, the Zandberg Lab at UBC Okanagan, BC Women's and Children's Hospital Vancouver, Carleton University (Ottawa) and Maternal and Fetal Medicine at the University of Western Ontario, has initiated a large retrospective study on placental pathology and glycochemistry in maternal diabetes; ethics approval has been obtained (at all collaborating institutions).

The team has acquired a Research Associate, Dr. Marina White PhD, postdoctoral fellow, who will be leading the study. In collaboration with Dr. Teralee Burton, Clinical Chemistry, Dept of Lab Medicine, KGH, The team has applied for a PGAP grant (15K) from the Dept of Pathology at UBC, to study glycosylation of placental derived hormones and growth factors in gestational diabetes (decision pending). Dr Marina White will be outlining the short and long term objectives of the placenta glycobiology research group at an upcoming Grand Rounds at Vernon Jubilee (May 2025). The Group will be employing and training two undergraduate summer research students in the summer of 2025.

MEDICAL BIOCHEMISTRY FACULTY:Dr. Teralee Burton, Clinical Assistant Professor**Publications:**

- Abstract and poster at the national CSCC conference "Accuracy of point-of-care lactate measurements and their suitability for fetal scalp lactate testing"
-

Committees:

- Secretary for the Canadian Society of Clinical Chemistry (CSCC) executive council
- Examiner on the board for the CACB (Canadian Academy of Clinical Biochemistry) certification exams
- EPOC committee member CSCC (Educating the public on Clinical Chemistry)
- CSCC Quality Management Working Group member
- CSCC POCT Special Interest Working Group member

Dr. Karina Rodriguez-Capote, Clinical Professor**Local committees:**

- Interior Health Emergency Services Network Clinical Order Set Committee
-

Internationals:

- Represent Canada to the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) in two committees and one Task Force.
 - IFCC Committee on Reference Intervals and Decision limits
 - IFCC committee on Evidence Based Laboratory Medicine
 - IFCC Task Force on Outcome Studies in Laboratory Medicine
- Academy of Diagnostics and Laboratory Medicine (ADLM) SCIENTIFIC SHORTS EDITORIAL BOARD

National Committees and Working Groups:

- Member of Canadian Society of Clinical Chemistry (CSCC) Utilization Management Interest Group which published:
 - Clinical Biochemistry list of Twelve Tests and treatment to question - Choosing Wisely Canada (Clinical Biochemistry - Choosing Wisely Canada)
 - Contributed with other 20 Canadian Clinical Societies to the Choosing Wisely Canada's climate-conscious recommendations, Choosing Wisely and Climate Action - Choosing Wisely Canada
- CSCC Working Group on Harmonization of Reference Intervals
- Member of the CSCC Monoclonal Gammopathy Working Group
- CSCC Working Group Harmonization of CSF Analysis for Investigation of Multiple Sclerosis
- Canadian Academy of Clinical Biochemistry (CACB) Maintenance of Competence Committee
- Canadian Academy of Clinical Biochemistry (CACB) Syllabus Committee

Publications:

- "A guide to conducting systematic reviews of clinical laboratory tests". Clinical Chemistry and Laboratory Medicine (CCLM) 2024 , 62 (2), 218-233
- Reviewer for Peer Review Journals (CCLM, Clin Chem, Clin Biochem, JALM, CCA, Crit Rev Clin Lab Sci, BJM)
-

Conference Proceedings:

- Vilte Barakauskas, Uvaraj Uddayasankar, Matthew Henderson, Julie Amyot, Dana Bailey, Rose Dijiana, Lei Fu, Angela Fung, Liz-Ann Gilbert, Benjamin Jung, Sebastien Lavoie, Michael Lehoux, Marie-Helene Levesque, Loralie Langman, Curtis Oleschuk, Dennis Orton, Eleonora Petryayeva, Josh Raizman, Robert Robitaille, Karina Rodriguez-Capote, Isolde Seiden Long, Jennifer Taher, Dorothy Truong. A Modern Syllabus for

Clinical Biochemistry Training in Canada. In CLINICAL BIOCHEMISTRY 2024 Dec 1 (Vol. 133). PERGAMON-ELSEVIER SCIENCE LTD.

- Higgins V, Beriault D, Bhayana V, Booth RA, Chen Y, Gifford JL, Newbigging A, Olayinka L, Parker ML, Rodriguez-Capote K, Schneider R. Harmonization of Cerebrospinal Fluid Oligoclonal Banding Reporting. In CLINICAL BIOCHEMISTRY 2024 Dec 1 (Vol. 133). PERGAMON-ELSEVIER SCIENCE LTD.

Dr. Kristin Hauff, Clinical Assistant Professor**Invited Speaker:**

- 29th ADLM International CPOCT Symposium: Quality Beyond the Lab: Navigating POCT Excellence in Patient Care, September 25-27, 2024, in San Diego, California.
- February 2024: BCCDC Grand Rounds "Direct to Consumer testing"
- March 2024: BC PHSA HAMAC "Clinical Scientists in BC"

Provincial Membership:

- President of British Columbia Association of Clinical Scientists
- Member of British Columbia's Medical Biochemistry Advisory Committee (MBAC)

National membership:

- Member of CSCC Utilization Management Interest Group which published:
 - Clinical Biochemistry list of Twelve Tests and treatment to question - Choosing Wisely Canada (Clinical Biochemistry - Choosing Wisely Canada)
 - Contributed with other Choosing Wisely Canada's climate-conscious recommendations, Choosing Wisely and Climate Action - Choosing Wisely Canada
- Member of the CSCC Monoclonal Gammopathy Working Group
- Member of the ADLM and CSCC Toxicology

Working Groups

- Member of the CSCC Analytics in the Clinical Laboratory Special Interest Group
- Reviewer for Peer Review Journals (CCLM, Clin Chem, Clin Biochem, JALM)

Dr. Dailin Li, Clinical Assistant Professor

- Teaching UBC path407 course for 4th year BMLSc program students since 2007 (Laboratory testing in emergency toxicology and urine drug testing & Analgesics toxicity - salicylate and acetaminophen)

National Membership:

- CSCC POCT Special Interest Working Group member

DEPARTMENTAL JOINT ACTIVITIES:

Teaching Activities:

~6 medical rotation students

Clinical Service:

- Sweat chloride testing repatriation
- Support nurse collections for MHSU, HAH (Support clinical staff with phlebotomy training and guidance to clinical programs requiring lab services)
- Repatriated serology testing for Hepatitis A, B, C and HIV.

Research and Innovation:

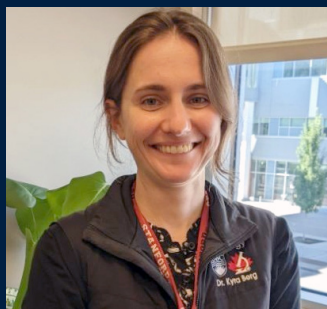
2 MD FLEX students - utilization of serum protein electrophoresis



Dr. Launny Lowden



Dr. Dante D'Urbano



Dr. Kyra Berg



Dr. David Grynspan



Dr. Ehsan Yousefzadeh-Davani



Dr. Jason Dyle



Dr. Teralee Burton



Dr. Karina Rodriguez-Capoten

Interior Health Pathology and Laboratory Medicine team members who contributed to this year's annual report activities in teaching, research, and clinical service.



UBC CLINICAL FACULTY IN ISLAND HEALTH

DR. JULIE IRVING

REGIONAL ACADEMIC ASSOCIATE DEPARTMENT
HEAD, VANCOUVER ISLAND HEALTH

GENERAL OVERVIEW:

Approximately 49 Laboratory Medicine physicians actively practice in Island Health, 32 (61%) of whom hold UBC Clinical Faculty appointments (see Tables 1 and 2). In 2024, there were 2 promotions to the rank of Clinical Associate (Dr. Antonio Subtil-DeOliveira and Dr. Michael Chen).

Table 1. Number of Laboratory Medicine physicians in Island Health with UBC Clinical Faculty appointment/total number staff.

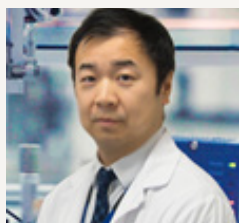
	Anatomical Pathology	Hemato-pathology	Medical Microbiology	Biochemistry	Forensic Pathology	Cyto-genetics
South Island (Royal Jubilee and Victoria General Hospitals)	12/14	2/7	6/7	2/3	1/1	1/1
Center Island (Nanaimo Regional General Hospital)	3/10	1/2	n/a	n/a	n/a	n/a
North Island (Comox Valley and Campbell River Hospitals)	1/3	1/1	n/a	n/a	n/a	n/a

Table 2. Total number (percentage) of Laboratory Medicine physicians in Island Health by clinical rank.

	Anatomical Pathology	Hemato-pathology	Medical Microbiology	Biochemistry	Forensic Pathology	Cyto-genetics
Clinical Instructor	11 (41%)	1	3 (43%)	0	0	1
Clinical Assistant	2 (7%)	1	1 (14%)	1	1	0
Clinical Associate	3 (11%)	1	0	1	0	0
Clinical Professor	0	1	2 (29%)	0	0	0
Not clinical faculty	11 (40%)	6 (60%)	1 (14%)	1 (33%)	0	0

Laboratory Medicine physicians in Island Health continue active participation in teaching of medical students (usually 3rd and 4th year students in the Island Medical Program) and residents on elective rotation. The balance of hospital workload with academic endeavors is an ongoing challenge for clinical faculty and professional staff, but across all 4 major disciplines, notable research accomplishments with significant clinical impact have been achieved throughout 2024, as summarized below.

DR. MICHAEL CHEN



(Medical Biochemist and Head - Island Health; Discipline Lead – Medical Biochemistry Provincial Laboratory Medicine Services; Clinical Associate Professor – UBC; Adjunct Faculty - University of Victoria)

Dr. Chen is a Medical Biochemist with a highly commendable leadership (see short bio above), research, and teaching portfolio. As the Scientific Director of the Translational 'Omics Laboratory at Victoria General Hospital, he participates in an extensive array of international research projects:

- SLING (Singapore Lipidomics Incubator Group) - an overarching effort to determine biological variation of lipids, particularly biological reference ranges in human blood plasma ceramides and bile acids. As stated by Dr. Chen, "our lab is one of 40 laboratories and partners that participate in this International Lipidomics Society initiative. We have just completed phase I of the "Ring-Trials" focusing on analytical harmonization."
- Assay harmonization and standardization to improve result comparability for clinical care - in collaboration with Radboud University Medical Center in the Netherlands, working with 16 laboratories towards a framework for standardization of hepcidin measurement.
- In collaboration with the Department of Biochemistry and Molecular Cell Biology at Taiwan Medical University (Dr I-Lin Tsai), focusing on quantitative determination of antibiotics in dried plasma spots and glycosylation of immunoglobulin G subclass.

In addition, Dr. Chen has held numerous research grants as a Principle or Co-Principle Investigator (entitled "Nanopots and Isotope Dilution Mass Spectrometry to Determine Erythrocyte Age", "Single

Erythrocyte HbA1c Distribution Assay", and "Rapid Pathogen Identification Using Lipidomics"), is the director of the Island Health COVID19 Biobank, and co-chair of the BC Biobank Network.

As a further example of multidisciplinary collaboration, Dr. Chen and colleagues in both Medical Microbiology (Drs. Yuen and Kibsey) and the University of Victoria developed and validated a culture-free screening test for urinary tract infections, as published in the October 2024 issue of the Journal of Clinical Microbiology (see Figure below).

Dr. Chen is the Research Advisor for the UBC Medical Biochemistry Residency Training program, gives small group didactic lectures to residents, and has served as Medical Biochemistry fellow preceptor as well as PhD student supervisor.

In recognition of Dr. Chen's contributions, he was bestowed the 2024 South Island MSA Award for Innovation Leadership. Congratulations, Dr. Chen.

DR. KIRSTEN FLEMING



(Anatomical Pathologist – Nanaimo Regional General Hospital, Clinical Instructor – UBC)

Dr. Fleming is an exceptional Clinical Faculty member who merits special recognition for her ongoing teaching contributions, serving as preceptor to 4th year medical students and pathology residents on elective rotation in Anatomical Pathology at Nanaimo Regional General Hospital, with at least 60 teaching hours accrued in 2024.

DR. GWEN CLARKE



(Hematopathologist and Transfusion Medicine physician - RJH, Clinical Professor)

Dr. Clarke is a hematopathologist and clinical researcher with interests in perinatal immunohematology, perinatal/neonatal diagnostic testing, rare blood groups, and quality assurance/process improvement in transfusion medicine. In 2024, Dr. Clarke continued her highly successful academic career, exemplified by two significant research and teaching endeavors:

- **Co-Principle Investigator, “Risk of high volume fetomaternal hemorrhage (FMH) in Rh negative pregnancies. What is the role of antenatal testing for FMH?”**

This is a national research study by the Canadian Obstetrical and Pediatric Transfusion Network, a subcommittee of the Canadian Society for Transfusion Medicine. Partial data collection from this multicenter study (involving health sites from BC, Alberta, Saskatchewan, Ontario, and Nova Scotia) has been completed and an initial report will be presented as an abstract at the CSTM meeting in June (St. John's, Newfoundland).

- **Immunohematology program development for Distributed Academic Half Day (DAHD)**

The five Hematopathology programs across Canada have established a combined academic half day, in which faculty members and residents attend a monthly zoom session (DAHD). As an important expansion to this nationwide teaching initiative, Dr. Clarke has developed curriculum topics for a series of 12 DAHD sessions focused

on Immunohematology. Each month, residents will be provided with advance resources and reading materials, followed by a 2-hour interactive zoom discussion of illustrative cases and topics facilitated by Immunohematologists. The 12 sessions will be underway for the 2025 academic year, and sets an excellent standard for small residency programs, ensuring that all residents have access to expertise from Hematopathologists across the country.

DR. ANTONIO SUBTIL-DEOLIVEIRA



(Anatomical Pathologist – Royal Jubilee Hospital, Clinical Associate Professor – UBC)

Dr. Antonio Subtil-DeOliveira, recently promoted to the rank of Clinical Associate Professor, continued his global impact in 2024, engaging pathology audiences as an invited/keynote speaker at numerous international meetings, with presentation of topics in lymphoma and dermatopathology:

- Halifax Lectureship in Dermatopathology, Dalhousie University, Halifax, NS, “Challenges in Skin Lymphoma Diagnosis”, “Variants of Lymphomatoid Papulosis”
- Skin Lymphoma Review Course, Sullivan Nicolaides Pathology, Brisbane, Australia
- XLIII Annual Symposium of the International Society of Dermatopathology, Queenstown, New Zealand, “Lymphoid Clues”
- Brazilian Society of Dermatopathology 34th Annual Meeting, Belem, PA, Brazil, “Challenging Dermatopathology Cases”
- Spring Meeting of the Pacific Northwest Society of Pathologists, Vancouver, BC, “Challenges in

Skin Lymphoma Diagnosis”

Dr. Subtil-DeOliveira was also co-author of a study published in the American Journal of Surgical Pathology, and his colleagues in Anatomical Pathology at RJH benefited from his in-house presentation of this rare entity at intra-departmental slide rounds:

Mark E, Kempf W, Guitart J, Pulitzer M, Mitteldorf C, Hristov A, Torres-Cabala C, Marchi E, Cropley T, Rodriguez Pinilla SM, Griffin T, Fernandez R, Pileri S, Pileri A, Tabanelli V, Borretta L, Subtil A, Plaza JA, Piris JAMA, Feldman AL, Cerroni L, Gru AA. Lymphomatoid papulosis with T-cell receptor-gamma delta expression: A clinicopathologic case-series of 26 patients of an underrecognized immunophenotypic variant of lymphomatoid papulosis. Am J Surg Pathol 2024;48:501-510.

DR. DANIELLE MEUNIER

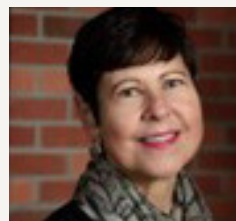


**(Anatomical Pathologist
– Royal Jubilee Hospital,
Clinical Associate
Professor – UBC)**

Dr. Meunier completed her residency at the University of Alberta, with special interests in transfusion medicine and point of care coagulation testing. In addition to her strong leadership as Medical Lead in Hematopathology for Island Health, Dr. Meunier has been involved in substantial service and quality improvements, including (1) a peripheral blood slide triage process to ensure prioritized technologist review of highest risk slides, (2) a QI project to reduce albumin usage in CVU patients, and (3) implementation of paperless/remote workflows for transfusion medicine interpretative work to allow more scheduling flexibility. Despite her extremely

busy clinical and administrative schedule, Dr. Meunier served as a facilitator for the UBC Transfusion Medicine Bootcamp course, and is a member of the provincial CBC reporting working group.

DR. PAMELA KIBSEY



**(Medical Microbiologist
and Lead - Island Wide,
Infection Prevention and
Control Physician)**

- The Department of Medical Microbiology hosted two residents for one month each from the UBC residency program, and one medical student for one month.
- Several microbiologists are active in the Fecal Transplant Program, sponsored from the Medical Microbiology laboratory at the Royal Jubilee Hospital. Many patients have been enrolled in the oral capsule treatment versus the standard fecal enema, as part of an ongoing trial with Dr. Christine Lee as a Principle Investigator.
- SQI Sprint Lead for the PHSA Penicillin Allergy De-labelling initiative. (Dr Victor Yuen)
- Visiting lecturer for UBC PATH 722 lecture on Gram-negative fastidious organisms. (Dr Yuen)
- Visiting lecturer for Medical Residents year 1 in IH on blood and body fluid exposures (Dr Kibsey)
- Refereed publication in collaboration with Dr. Chen (J Clin Microbiol - shown above)

DR. XIAOFENG DING



**(Medical Microbiologist,
Royal Jubilee Hospital)**

Dr. Ding completed his residency training in Alberta, and recently joined the Medical Microbiologist group in Island Health (formal UBC academic appointment in process), relocating from Prince Edward Island. Since his arrival, Dr. Ding has been actively involved in teaching learners from the Medical Microbiology residency and Island Medical Programs. In Dr. Ding's words, "these activities have allowed me to tailor my teaching approach to meet the specific needs and skill levels of each learner. As a laboratory physician, I am dedicated to inspiring future physicians to consider pursuing careers in laboratory medicine. Additionally, I have developed several potential project ideas for future residents and students to further enhance their learning experiences". Dr. Ding also has a driving passion for quality improvement initiatives, and has applied for the Island Health Physician Quality Improvement Program. Welcome to the west coast Island, Dr. Ding!



UBC CLINICAL FACULTY IN FRASER HEALTH

DR. MICHELLE WONG

REGIONAL ACADEMIC ASSOCIATE DEPARTMENT
HEAD, FRASER HEALTH

DIGITAL PATHOLOGY INNOVATION IN FRASER HEALTH:

Technology Implementation:

Dr. Youness Elkhaldy and the Hematopathology team have acquired a new high-tech Hamamatsu Nanozoomer slide scanner and begun validating digitalized hematopathology sign out.

Project Goals:

- Establish a process for digitalizing hematopathology specimens
- Enable remote review of pathology cases
- Provide quick access to pathologist interpretation
- Facilitate consultation between pathologists

Funding and Partnership:

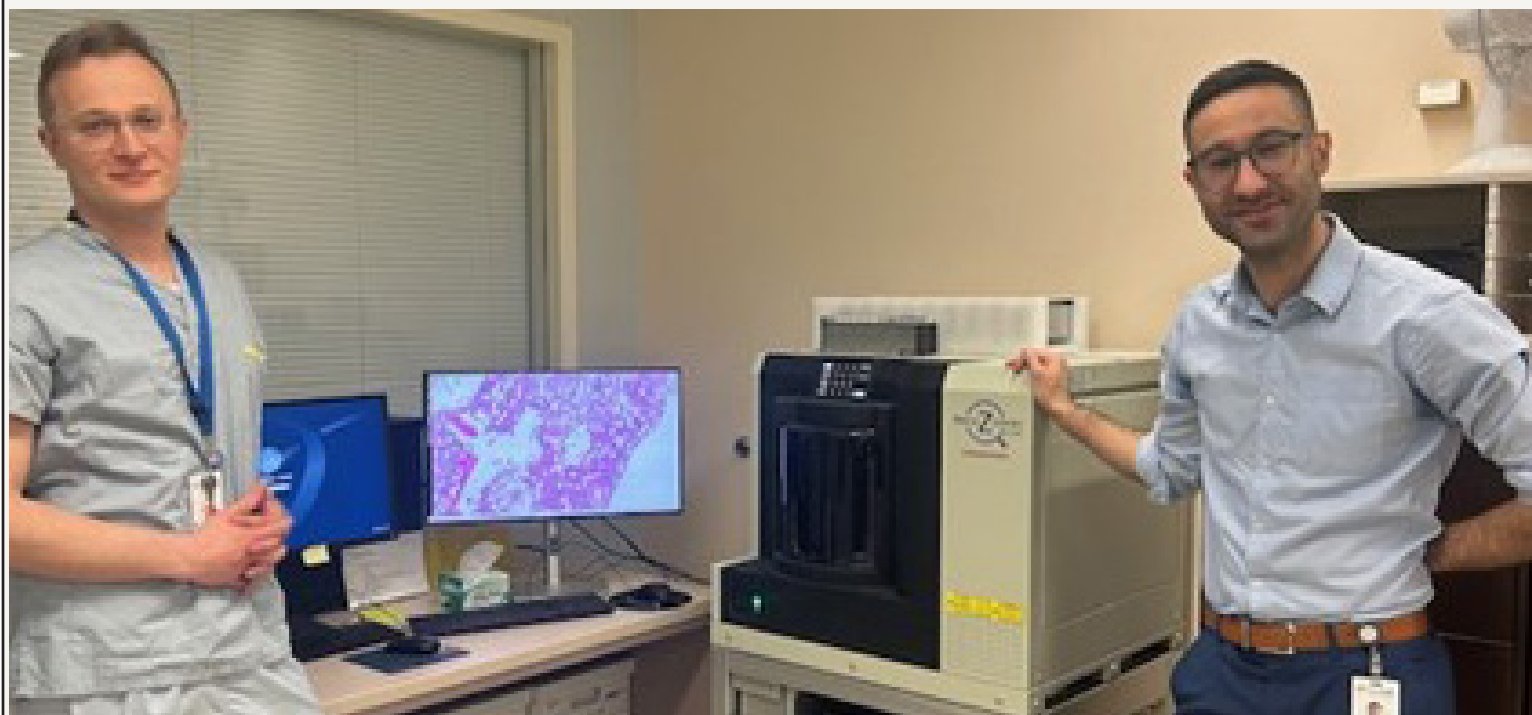
This initiative is part of a greater project funded by PHSA/Innovate BC to support digital pathology advancement across the province.

Current Progress:

- Scanner operationalized and fully functional
- Retrospective case review initiated
- Validation process underway for clinical use implementation
- Digital sign-out process being established

Strategic Impact:

This initiative represents **the future of laboratory medicine**, positioning Fraser Health as a leader in digital pathology innovation and improving patient care through enhanced diagnostic capabilities.





BC CANCER

DR. GANG WANG
AFFILIATED TEACHING HOSPITALS HEAD, BC CANCER

KEY HIGHLIGHTS:

In 2024, BC Cancer Pathology significantly advanced its clinical, research, and educational missions.

Clinical Achievements

(digital pathology validation, pilot project results)

Clinically, the team successfully **validated the Aperio GT450 DX automated slide scanner** and **integrated it with PHSA’s digital pathology network, while implementing the Concentriq software platform from Proscia**. They completed a **digital pathology pilot project**, validating 66 consultation cases from Northern Health, achieving 100% concordance and a low rescan rate of 7.7%.

Research Excellence

(\$14M funding, 100+ publications, major funders)

In research, the group secured **over \$14 million in new funding**, led by multiple principal investigators, with substantial grants from TFRI, Genome BC, and CIHR, resulting in **more than 100 publications**.

Educational Impact

(resident and fellow numbers by specialty)

Educationally, the department provided comprehensive training, hosting **22 Diagnostic Medical Pathology residents, three Hematopathology residents, one Oral Pathology resident, two visiting residents, and seven clinical fellows**, actively contributing to UBC’s teaching programs.



BC CENTRE FOR DISEASE CONTROL PUBLIC HEALTH LABORATORY EXCELLENCE

DR. LINDA HOANG

AFFILIATED TEACHING HOSPITALS HEAD, BCCDC

KEY HIGHLIGHTS:

\$11.6M+ total research funding across all projects

12 high-impact publications including 2 in New England Journal of Medicine

11 students + 3 Indigenous high school students trained

17 total research projects (10 ongoing + 7 new initiatives)

5 major service improvements implemented

4 major awards and recognition

The BCCDC Public Health Laboratory's Zoonotic and Emerging Pathogens (ZEP) Laboratory serves as the province's reference laboratory for vector-borne, zoonotic, and emerging/re-emerging diseases. The laboratory conducts surveillance, outbreak investigations, diagnostic immunoassays, culture, and molecular testing for bacterial, fungal, viral, and parasitic agents of public health concern, including complex diagnosis of syphilis and Lyme disease.

Teaching Excellence: +

- 11 students trained (mostly GRAs and Co-ops)
- 3 Indigenous high school students trained through the Seed2STEM program
- 20 teaching faculty and staff
- Course contributions: BMLSc Path 327 (1 lecture), Path 722 (6 lectures, 1 lab)

Student Feedback Highlights: +

Trainees enjoyed Career panels and 1-on-1 conversations with speakers from different public health sectors. Social events provided opportunities for informal conversations between trainees and Principal Investigators. feature two 10-15 minute presentations highlighting research from epidemiology and laboratory service lines.

Future Educational Initiatives (2025): +

- Work-in-Progress Seminars (WIPs) throughout the year featuring two 10-15 minute presentations from epidemiology and laboratory service lines
- Quarterly Networking and Recognition events to foster interdisciplinary collaboration

- Educational Panels and Career Workshops in summer and new year
- Job search skills workshops based on trainee interest

Major Service Improvements: +

- Implemented automated Rapid Plasma Reagin (RPR) AIX1000 for syphilis testing to accommodate increasing samples and ergonomic considerations
- Developed automated extraction methods for *T. pallidum* detection from genital ulcerative swabs
- Implemented in-house Chikungunya IgM and IgG testing
- Led provincial decentralization of HIV PCR testing with BC Children's & Women's Hospital Lab, supporting frontline labs with new technology for rapid detection
- Transitioned TB laboratory to *M. tuberculosis* genotyping by whole genome sequencing and introduced WGS-based antimicrobial resistance predictions for *M. tuberculosis* and next-generation sequencing identification for non-tuberculous mycobacteria (presented nationally, two related publications submitted)

Awards and Recognition: +

- **Dr. Agatha Jassem:** Excellence in Clinical Service award (PathDay)
- **Dr. Muhammad Morshed:** Elected as World Academy of Sciences (TWAS) fellow, Trieste, Italy
- **Dr. Mel Krajden:** John G. FitzGerald Award from Canadian Association for Clinical Microbiology and Infectious Diseases
- **Dr. Muhammad Morshed and Dr. Mel Krajden:** 25-year long service awards from Department of Pathology and Laboratory Medicine

Community Impact:

Hosted three Indigenous high school students through the Seed2STEM program during summer 2024.

Research Portfolio: +

Major Ongoing Projects (10 initiatives totaling \$10M+):

- BOLSTER-3: Pathogen Research for establishment of infrastructure to support threat response (CFI; \$4.1M; Dr. Krajden)
- SAFEGUARD: Surveillance Alert for Fast Epidemiology Genomics and Unified Agile Response to Disease against respiratory viruses using wastewater surveillance (Genome Canada/Genome BC; \$3M; Dr. Prystajeky)
- FOCAL Momentum: Microbiome Monitoring for Elimination of Cervical Cancer Study (VFoundation; \$799,975 USD; Dr. Sekirov Co-PI, Dr. Ogilvie PI)
- Canada-Africa Mpox Partnership (CAMP) (CIHR; \$249k; Dr. Jassem)
- Lyme Disease Testing Improvement: Beyond standard two-tiered testing and *B. burgdorferi* pilot

project (Canadian Lyme Disease Research Network, CIHR; \$200k 2023-2026)

- PeptAID: Antimicrobial peptides to replace antibiotics in farm veterinary practice (Genome Canada; \$159k; Dr. Hoang)
- Early Childhood Viral Infection Study: Role in sleep disordered breathing and asthma development (CIHR; \$344k; Dr. Jassem)
- Canadian Lyme Disease Research Network (CLyDRN): CIHR grant evaluation of Lyme Disease Testing Performance in Canada
- Doxy Prep study with STI division, BCCDC
- Treponema pallidum WGS project with National Microbiology Laboratory, Winnipeg, including antibiotic drug resistance determination for *T. pallidum*

New Research Initiatives +

(7 projects totaling \$1.6M+):

- H5N1 Unified Bioresponse (HUB) (Genome BC; \$746,971; Dr. Hoang)
- GEMSTONE: Genomic Ecological Microbial Source Tracking for Oceans Nature and the Environment (Genome BC; \$500k; Dr. Prystajecy)
- BIRDWATCH: Building Cloud-Powered Genomic Tools for Advanced Surveillance and Risk Prediction of Highly Pathogenic Avian Influenza (Genome BC; \$250k; Dr. Russell/Dr. Himsworth)
- Multiplex serology assay for highly pathogenic influenza detection (CIHR/MSFHR; \$150k; Dr. Jassem)
- MERMAID-S: Metabolomics exploration for rapid machine learning/AI on infectious diseases - syphilis (UBC CDC; \$15k; Dr. Hogan)
- Pathogen Genomics for clinical testing and surveillance in public health (UBC FoM; \$10k; Dr. Tyson)
- PathFinder: Distributed pathogen genomics for clinical testing and surveillance in one health (UBC CDC; \$15k; Dr. Tyson)

Student Research Involvement +

(11 students total):

PhD Students (4):

- **Guadalein Tanunliong:** Evaluating immune responses to different Coronaviruses and associated clinical outcomes in antenatal women
- **Brynn McMillan:** Evaluating immune responses to COVID-19 vaccines in community-dwelling elderly
- **Fang Fang Li:** Linking early-life viral exposures to outcomes, investigating serological testing in neurological disorders
- **Arnold Okpani:** Occupational health during the COVID pandemic

Masters Students (2):

- **Liam Byrne:** Characterizing antimicrobial resistance in wastewater
- **Ethan Kenmuir:** NGS to understand vaccine reversion events and transmission of infectious laryngotracheitis

Co-op Students (3):

- **Avani Bhangav (UVic):** Establishing quality metrics

for healthcare-associated infection analysis

- **Mruthula Narayan:** Establishing cervicovaginal bacterial microbiome sequencing protocols for HPV infection outcome studies

Undergraduate Students (2):

- **Angel Yao:** Investigating comprehensive testing approaches for tick identification
- **Matthew Dichupa:** Evaluating new serological technologies for detecting previous viral infection

MD Undergraduate Students (1):

- **Kashika Sareen** (MD undergraduate): Working on Laboratory Diagnosis of Lyme disease in Canada update

Major Research Collaborations: +

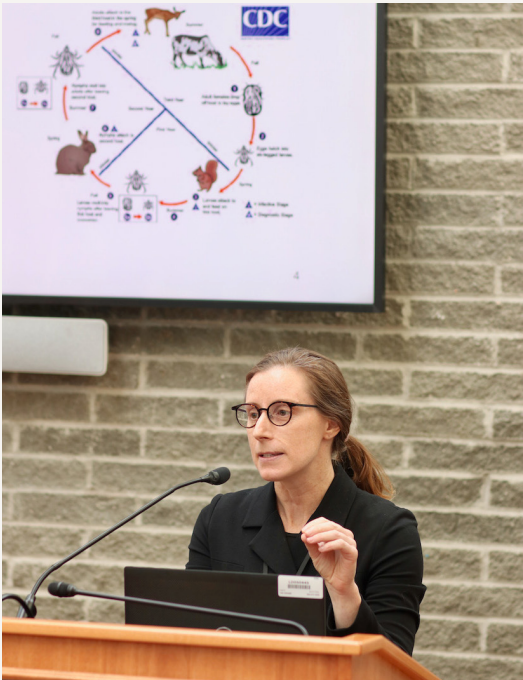
GEMSTONE Project: UBC, PHSA Environmental Microbiology, BC Centre for Disease Control, BC Shellfish Growers, Malahat Nation, Comox Valley Regional District, Fraser Health Authority, Island Health, Ministry of Agriculture, Ministry of Environment and Climate Change, Ministry of Health, Vancouver Island University, Genome BC

SAFEGUARD Project: UBC, BC Centre for Disease Control, Ministry of Health, Public Health Agency of Canada, BC Children's and Women's Hospital, National Microbiology Lab

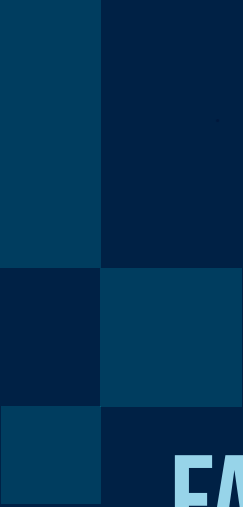
Notable Publications +

(12 high-impact publications including):

- New England Journal of Medicine: "Critical Illness in an Adolescent with Influenza A(H5N1) Virus Infection" (Dr. Jassem et al.)
- New England Journal of Medicine: "Near-Universal Resistance to Macrolides of *Treponema pallidum* in North America" (Dr. Morshed et al.)
- Journal of Infectious Diseases: "Clinical Application of Phage Immunoprecipitation Sequencing to Diagnose Enterovirus D68" (Dr. Jassem et al.)
- Journal of Clinical Microbiology: "Rapid, high-throughput, cost-effective whole-genome sequencing of SARS-CoV-2" (Dr. Hoang, Dr. Prystajecy et al.)
- Emerging Microbes & Infections: "Descriptive epidemiology and phylogenetic analysis of highly pathogenic avian influenza H5N1" (Dr. Prystajecy, Dr. Himsworth et al.) CDC; \$15k; Dr. Tyson)



Our faculty and staff lead provincial surveillance programs, conduct cutting-edge research on emerging pathogens, and train the next generation of public health professionals.



FACULTY HIGHLIGHTS

The following highlights showcase the diverse achievements of our faculty members throughout 2024. These reports represent significant contributions across research innovation, educational excellence, clinical advancement, and international collaboration. From groundbreaking discoveries in cancer research to pioneering educational programs and technological implementations, our faculty continue to advance knowledge and improve patient care on local, national, and global scales.

04

RESEARCH EXCELLENCE AND INNOVATION

During 2024, Dr. Sorensen and his team continued their pioneering work on the characterization of high-risk pediatric cancer biology and identification of novel therapeutic targets. This research focus yielded exceptional results across multiple dimensions of scientific achievement.

PUBLICATIONS AND SCHOLARLY IMPACT

The team's research efforts culminated in the publication of 13 manuscripts in high-impact journals, including *Clinical Cancer Research* and *Journal of Clinical Investigation*. Dr. Sorensen also collaborated with world-renowned experts to author a chapter on the molecular pathology of pediatric cancers in the primary reference textbook used globally by practicing clinicians, providing comprehensive guidance on the diagnosis, treatment, and management of childhood cancers.

INNOVATION AND INTELLECTUAL PROPERTY

The laboratory's innovative research generated significant intellectual property, with three invention disclosures filed for:

- Novel dual-targeting antibody drug-conjugates directed against B7H3 and IL1RAP
- New antibodies targeting promising surface targets in osteosarcoma (TMEM119 and ROR2)

These discoveries led to the initiation of discussions with industry partners for the licensing of proprietary IL1RAP antibody drug-conjugates, demonstrating the translational potential of the research.

COLLABORATIVE NETWORKS AND PARTNERSHIPS

Dr. Sorensen's research program maintained and expanded its global reach throughout 2024. The team continued established collaborations with scientists across Austria, Germany, the United States, and France, while simultaneously building new partnerships with academic researchers in Canada and the United States.

FUNDING ACHIEVEMENT

The research program successfully secured over \$3.8 million in national and international grant funding.

RECOGNITION AND AWARDS

Dr. Sorensen received the prestigious Doctors of BC Terry Fox Medal in 2024, honoring exceptional national and international contributions to oncology research, practice, and education.



Dr. Poul Sorensen
Professor, Department of
Pathology &
Laboratory Medicine, UBC

LEADERSHIP AND GRANT SUCCESS

Major Grant Leadership

Dr. Sorensen served in several critical leadership roles:

- **U54 Biden Cancer Moonshot Grant:** Completed his role as Canadian Principal Investigator in the 7th and final year of this large-scale international pediatric cancer immunotherapy research initiative.
- **St. Baldrick's Foundation-SU2C Partnership:** Continued for the 11th consecutive year as Vancouver Principal Investigator of the prestigious pediatric cancer immunotherapy program, now known as the EPICC Team (Empowering Pediatric Immunotherapies for Childhood Cancer). Within this collaboration, he leads the molecular pathology core for the entire grant.

INSTITUTIONAL IMPACT AND SERVICE

As Director of the Academy of Translational Medicine at UBC Faculty of Medicine, Dr. Sorensen leads an innovation hub connecting biomedical research, business, healthcare, and government sectors to accelerate bench-to-bedside translation of scientific discoveries.



Dr. Lucy Perrone

Donald B Rix Professor of Laboratory Quality, Department of Pathology and Laboratory Medicine
Director, Canadian Microbiology Proficiency Testing (CMPT)

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMS

Dr. Perrone's leadership in international education delivered exceptional results through two major programs. The Laboratory Quality Management (LQM) 2024 program attracted **41 international students**, while the Advanced Skills Training (AST) 2024 program **hosted 9 international participants**, demonstrating the global reach and reputation of UBC's pathology training initiatives.

SPECIALIZED TRAINING PARTNERSHIPS

The CMPT program **hosted two visiting medical microbiologists** from the Central Public Health Laboratory in Muscat, Oman, in August 2024. This specialized training focused on quality assurance sample production, strengthening international laboratory capacity and fostering bilateral knowledge exchange.

SCHOLARLY IMPACT AND PUBLICATIONS

Dr. Perrone contributed significantly to the global literature on External Quality Assessment (EQA) through a comprehensive five-part series published in *Clinical Chemistry and Laboratory Medicine*. This collaborative work with international experts provides definitive guidance on EQA characteristics, capabilities, benefits, and implementation across laboratory medicine.

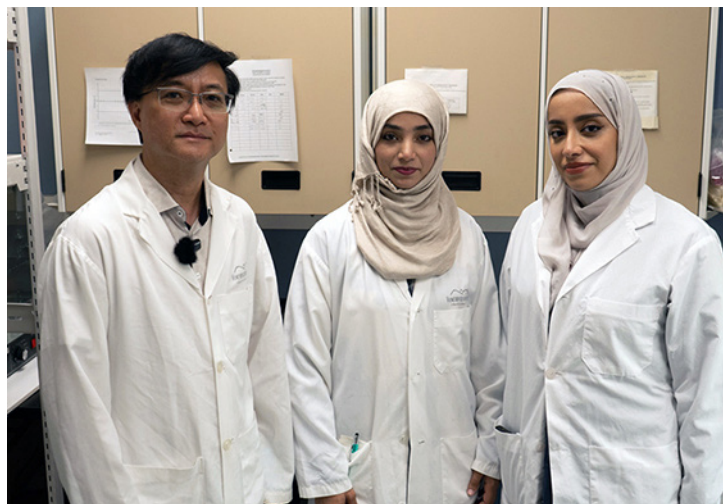
The publications cover the complete EQA ecosystem: general principles and program design, the EQA cycle, sample preparation and management, benefits for participating laboratories, and advantages for broader stakeholders. This scholarly contribution establishes new standards for quality assessment in laboratory medicine globally.

CONFERENCE LEADERSHIP & PROFESSIONAL ENGAGEMENT

Dr. Perrone delivered keynote presentations across multiple continents, sharing expertise in laboratory quality management and ISO standards:

Africa: Modern Management Approaches in Laboratory Medicine at the Biomedical Society of Zambia Annual Conference in Livingstone, Zambia (December 2024), and Laboratory Quality Seasonal School in South Africa (February 2024).

North America: ISO 15189:2022 standards and point-of-care testing at the BCSLS conference in Victoria, Canada (October 2024), and ISO Quality Standards presentation for British Columbia Laboratory Medical Services (April 2024).



Two visiting medical microbiologists from the Central Public Health Laboratory in Muscat, Oman, in August 2024

RESEARCH TEAM ACHIEVEMENTS

Laboratory members presented cutting-edge research at prominent conferences, including investigations into clinical microbiology laboratory performance and drinking water quality improvement through proficiency testing. These presentations at CACMID and CALA Connects conferences demonstrate the team's commitment to translating research into practical laboratory improvements.

INTERNATIONAL EQA NETWORK

The CMPT program maintained active partnerships with laboratories across six countries (Bermuda, Burundi, Slovenia, South Africa, UK, and USA), ensuring global quality standards and facilitating knowledge transfer across diverse healthcare systems.

STRATEGIC INTERNATIONAL PROJECTS

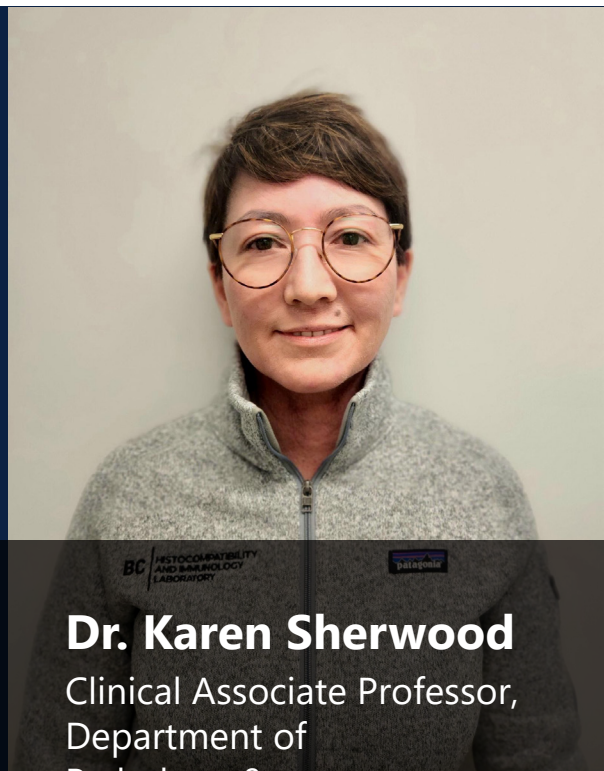
Bangladesh Public Health Laboratory System: Dr. Perrone served as Senior Advisor to a Ministry of Health initiative supported by the French Agency for Development and Foundation Merieux. This comprehensive project included stakeholder engagement, SWOT analysis, and development of the National Public Health Laboratory Strategy for Infectious Diseases with full ministerial validation.

Gambia Health System Strengthening: As advisor to the National Committee, Dr. Perrone contributed to developing The Gambia's first National Essential Diagnostics List, establishing foundational diagnostic capacity for the nation's healthcare system.

PROGRAM LEADERSHIP AND INNOVATION

Dr. Perrone's leadership of the CMPT and POLQM programs continues to set international standards for laboratory quality management education and external quality assessment. Through collaboration with international EQA partners and consortiums, including partnerships in Greece and EQALM, these programs maintain their position at the forefront of global laboratory medicine advancement.





Dr. Karen Sherwood

Clinical Associate Professor,
Department of
Pathology &
Laboratory Medicine, UBC

INTERNATIONAL SYMPOSIUM LEADERSHIP

The Immunology laboratory, in partnership with the Genome Canada Transplant Consortium, hosted the 2nd bi-annual 'Precision Transplant' symposium with the theme 'Path to Tolerance.' This hybrid event brought together collaborators from the Genome Canada Transplantation Consortium program (GCTC), which has been 10+ years in development, to share insights, foster collaboration, and highlight advancements in precision medicine for transplantation.

INTERNATIONAL PARTICIPATION

The symposium featured international speakers including Research Professor **Michael Oellerich** from George-August-University Medical Center Goettingen (Germany), **Dr. Dimitri Monos** from Children's Hospital of Philadelphia (USA), and **Dr. Klemens Budde** from Charité Germany. The event was made possible by a team of clinical researchers, histocompatibility specialists, and patient partners.

AUSTRALIA PARTNERSHIPS

The Immunology laboratory established new collaborations with Australian institutions, including a study comparing lung transplant outcomes in BC and in Eastern Australia. Additionally, a collaboration with the Australian LifeBlood team explores ABO Histocompatibility.

NATIONAL TECHNOLOGY TRANSFER LEADERSHIP

The Vancouver Immunology laboratory leads a national technology transfer program that implemented Oxford Nanopore-based sequencing for HLA genotyping across all 14 HLA laboratories in Canada. This standardization provides improved patient diagnostics through faster, more cost-effective testing while demonstrating how unified approaches can enhance efficiency in public healthcare systems.

INTERNATIONAL DAY OF IMMUNOLOGY

The Immunology laboratory and GCTC team participated in International Day of Immunology 2024 (April 28) presentations and public forum, and organized games and activities for the public. Dr. Sherwood took part in the public Q&A session.

CLINICAL TRAINING

The laboratory hosted nine resident rotations in 2024, representing a year-over-year increase in training capacity.

TEAM RECOGNITION

The team received custom 'BC Histocompatibility and Immunogenetics' Patagonia team jumpers in recognition of their work in teaching and patient care. The logo was designed collectively by team members.



Team in Patagonia



PTx organizing team

VGH Transfusion Medicine Lab contribution

Dr. Thamer Al-Begamy

UBC Transfusion Medicine Fellow
2023-2025



INTERNATIONAL FELLOWSHIP PROGRAM

The VGH Transfusion Medicine Laboratory hosted **Dr. Thamer Al-Begamy** as a UBC Transfusion Medicine Fellow from 2023-2025. Dr. Al-Begamy, a hematopathologist and transfusion medicine specialist from King Saud University, Saudi Arabia, integrated his expertise in blood product utilization with British Columbia's clinical practices.

INNOVATION AND TECHNOLOGY DEVELOPMENT

Dr. Al-Begamy developed an online immunoglobulin (Ig) screening tool and calculator to assist Vancouver Coastal Health Transfusion Medicine Services with order review processes. This digital tool addresses workflow efficiency, reduces manual tasks for technologists, and enhances patient safety by preventing dosing errors.

The tool supports the expanded Ig indication list created by the National Advisory Committee (NAC) and Provincial Blood Coordinating Office (PBCO) of BC, demonstrating integration with provincial healthcare standards and guidelines.

Disease: Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) Dosage/
Instructions: 2 g/kg ABW over 205 days; Maintenance: 1g/kg ABW every 3-4 weeks;
discontinue if no response after 3 treatments

Ig Dose Calculator

IVIg	SCIg
☒ Adult (18 and over) ☐ Child (under 18) ☐ Pregnant	
*Gender:	
*Weight: kg (equals 0 lbs)	
*Height: cm (equals 0 inches)	
*Dosage g/kg	
Adjusted Body Weight = kg	
IVIg Total Dose = g	
Calculate Clear Copy to SCIg	

The IVIg dose is calculated using adjusted body weight for adult males over 50kg (110 lb). The Adjusted Body Weight is 50% of the difference between Ideal Body Weight and Actual Body Weight.

The calculated Ideal Body Weight = kg

Dose by Day Calculator

*IVIg Total Dose:		g
*Over		days
Calculate Clear		

The IVIg Dose by Day Total is rounded to the nearest 5g and divided by the number of days.

Immunoglobulin (Ig) online screening tool created by Dr. Thamer Al-Begamy

IMPACT-AD project

IMPACT-AD PROJECT COMPLETION

Dr. DeMarco completed the IMPACT-AD project, a comprehensive study evaluating biomarker testing strategies for Alzheimer's disease. The project investigated the impact of biomarker testing across multiple facets of care including medical decision-making, personal decision-making, and health economics.

The research findings revealed decreased healthcare resource utilization, optimized therapy approaches, and increased counseling uptake by patients and family members. Patients and families reported that testing provided clarity and assisted with long-term planning.

NATIONAL ALZHEIMER'S DISEASE BIOMARKER TESTING PROGRAM

Dr. DeMarco established Canada's first diagnostic testing program for Alzheimer's disease, the National Alzheimer's Disease Biomarker Testing Program at St. Paul's Hospital in Vancouver. The program offers testing to patients across Canada and provides tools for clinicians, patients, and family members to support implementation.

The test measures protein biomarkers in cerebrospinal fluid, enabling earlier and more accurate diagnosis when only mild symptoms are present. Testing can only be ordered by specialists in dementia care, such as geriatricians or neurologists.

NEW RESEARCH INITIATIVES AND FUNDING

BEARS Study: Dr. DeMarco received funding from the British Columbia Ministry of Health to explore blood test integration for Alzheimer's disease in Canadian medical care pathways. The Blood tests for Early diagnosis of Alzheimer's disease and caRe Support (BEARS) study builds on knowledge gained from the IMPACT-AD research.

CONTINUING MEDICAL EDUCATION DEVELOPMENT

Additional funding from the Canadian Institutes of Health Research and the Canadian Consortium on Neurodegeneration in Aging supports the development of on-demand continuing medical education on biomarker testing for Alzheimer's disease.



Dr. Mari L. DeMarco
Clinical Professor, Department
of Pathology & Laboratory
Medicine, UBC

PROFESSIONAL LEADERSHIP

Dr. DeMarco co-leads the development of clinical guidance documentation on Alzheimer's disease biofluid testing through the Association for Diagnostics and Laboratory Medicine, a global scientific society dedicated to clinical laboratory science and healthcare applications.

GRANT HISTORY AND PARTNERSHIPS

The IMPACT-AD project was supported by a \$684,000 Brain Canada Improving Health Outcomes and Quality of Life Team Grant awarded in 2017. Funding partners included Michael Smith Health Research BC, UBC Faculty of Medicine, Djavad Mowafaghian Centre for Brain Health, Women's Brain Health Initiative, St Paul's Foundation, Alzheimer Society of Canada, and the Canadian Consortium on Neurodegeneration in Aging.



Dr. Christian Steidl

Professor, Department of Pathology
& Laboratory Medicine, UBC

Research Innovation in Hodgkin Lymphoma Treatment

SPATIAL BIOMARKER DEVELOPMENT

Dr. Steidl led research developing a new method to predict treatment outcomes for patients with relapsed and refractory classical Hodgkin Lymphoma. The study, published in the *Journal of Clinical Oncology*, introduces spatial biomarkers that analyze interactions between cancer cells and the tumor microenvironment.

The research methodology measures distances between cancer cells and nearby healthy cells, using this spatial information to predict patient outcomes. This approach builds on previous studies demonstrating the importance of macrophages, a type of white blood cell, in classical Hodgkin lymphoma.

INTERNATIONAL COLLABORATION

The research was conducted in collaboration with researchers from Cedars-Sinai Medical Center in Los Angeles, California. The team analyzed patient biopsies to characterize cells within the tumor microenvironment, providing more complete data on cancer cell interactions than previously available.

CLINICAL APPLICATIONS AND IMPACT

Treatment Prediction Improvement: The spatial biomarker methodology provides improved baseline predictions for patient outcomes. Dr. Tomohiro Aoki, postdoctoral fellow and lead author, noted that this biomarker assay can be readily implemented in clinical trials and tested in immunotherapy applications for Hodgkin lymphoma.

Future Treatment Applications: The research aims to enable tumor profiling that identifies tumor type and cellular composition, allowing physicians to recommend treatments based on individual tumor profiles. Current testing focuses on immunotherapy checkpoint inhibitors, which block proteins that prevent immune system attacks on cancer cells.

PUBLICATION AND FUNDING

The research was published in the *Journal of Clinical Oncology* (DOI: 10.1200/JCO.23.01115) and featured in UBC Medicine news coverage. The work addresses treatment challenges for approximately one-third of patients with relapsed and refractory Hodgkin Lymphoma who do not survive the disease.

Funding support was provided by the Terry Fox Research Institute, Genome Canada, Genome BC, Canadian Institute of Health Research, Canadian Cancer Society Research Institute, BC Cancer Foundation, and the Paul G. Allen Frontiers Group.

Oncolytic Virotherapy Research

EXOSOME-ENCAPSULATED VIRUS DEVELOPMENT

Dr. Luo's team developed a strategy to encapsulate miR-CVB3, a modified variant of Coxsackievirus B3, in bioengineered exosomes for cancer treatment. The research addressed limitations of systemic delivery including pre-existing neutralizing antibodies and immune clearance mechanisms.

The exosomes were modified with tumor-targeting molecules and loaded with doxorubicin chemotherapy to enhance efficacy. Results demonstrated selective targeting of breast cancer cells, induction of cancer cell death, and immune cell infiltration within the tumor microenvironment while sparing healthy organs.

The engineered oncolytic viruses reshaped immune-related protein profiles towards a more immunostimulatory state and enhanced immune cell activation.

COMBINATION THERAPY DEVELOPMENT

Dr. Luo's team combined CVB3 with melittin, a molecule from bee venom, and an immune activator to create a combination therapy for breast cancer and melanoma. The CVB3 virus was modified to increase safety and reduce damage to non-tumor cells.

Testing in mouse models showed tumor growth inhibition and improved survival rates compared to individual treatments in both breast cancer and melanoma. The combination therapy promoted anti-tumor immunity, enhancing the host immune system's ability to clear cancer cells and suppress distant tumor growth.

CLINICAL TRANSLATION AND FUTURE DIRECTIONS

The research team is developing an effective delivery system to integrate all therapeutic agents while evading host immune surveillance and optimizing tumor targeting. This work aims to translate the approach into practical cancer treatment applications.



Dr. Honglin Luo
Professor, Department
of Pathology & Laboratory
Medicine, UBC

PUBLICATIONS

The exosome-encapsulated virus work was published in ACS Nano (DOI: 10.1021/acsnano.3c09491). The combination therapy research was published in BMC Medicine (DOI: 10.1186/s12916-023-02901-y).

RECOGNITION

Dr. Luo was nominated for the YWCA Metro Vancouver Women of Distinction Award in Research, The Sciences & Technology, recognizing her work as an internationally recognized expert in viral pathogenesis, virotherapy, and enterovirus research.



Dr. Marc Romney

Clinical Professor, Department of Pathology & Laboratory Medicine, UBC

WASPLab Implementation

AUTOMATED WASPLAB

Dr. Romney led the implementation of a \$1-million automated WASPLab (walk-away specimen processor) system at St. Paul's Hospital. The system uses AI-driven robots named "Tarzan" and "Jane" to handle and process up to 70% of the hospital's microbiology samples.

The laboratory processes more than 145,000 microbiological samples annually from British Columbia and Yukon. The robotic system performs specimen tube handling, sample streaking onto bacterial culture plates, and automated assessment of culture results.

WORKFLOW ENHANCEMENT

The automation system addresses repetitive manual tasks, allowing laboratory staff to focus on complex analytical work. Tarzan handles specimen preparation and barcode scanning, while Jane applies precise sample volumes to bacterial culture plates. The AI component discards negative culture plates and identifies positive results requiring further analysis.

TECHNOLOGY COLLABORATION

Dr. Romney and his team collaborated with Italy-based manufacturer Copan over several months to customize the WASPLab system to meet hospital-specific requirements. The system represents the first AI-assisted laboratory automation of this type in Western Canada.

SYSTEM PERFORMANCE AND OVERSIGHT

The robotic system demonstrates capacity for early morning and late shift work while processing large sample batches. Dr. Romney noted that while the system performs well, human supervision remains necessary to address occasional errors and equipment malfunctions.

The laboratory maintains quality control protocols, recognizing that automated systems require human intervention for optimal performance and error correction.

FUTURE IMPLEMENTATION

A second WASPLab system is planned for installation when the new St. Paul's Hospital opens in 2027. The funding for the current system was provided by a donor to the St. Paul's Foundation.

HEALTHCARE TECHNOLOGY PERSPECTIVE

Dr. Romney has provided insights on the role of AI and robotics in healthcare settings, noting that while automation will continue to expand, it will complement rather than replace medical professionals. He emphasized that increasing patient complexity requires human expertise alongside technological advancement.

World-First Organ Matching Project

EPITOPE-BASED MATCHING IMPLEMENTATION

Dr. Paul Keown, Professor of Nephrology, and Dr. James Lan, Assistant Professor in the Department of Pathology and Laboratory Medicine and Division of Nephrology, are leading the world's first epitope-based matching program for kidney transplants. The project aims to prevent organ rejection and reduce the need for immune-suppressing medications through improved donor-recipient matching. British Columbia serves as the initial testing jurisdiction, with plans to extend the program across Canada. The project focuses on matching epitopes, which are segments of Human Leukocyte Antigen (HLA) proteins that the immune system uses to distinguish self from foreign entities.

RESEARCH METHODOLOGY AND GOALS

The epitope-matching approach targets the immune system's recognition of foreign HLA proteins from donor organs, which can trigger organ rejection, failure, and the need for additional transplants. By improving matching precision, the research aims to reduce these complications and minimize reliance on immunosuppressive therapy. Dr. Lan serves as Medical Director of the Immunology Laboratory at Vancouver General Hospital, providing laboratory expertise for the project's implementation.

MULTI-INSTITUTIONAL COLLABORATION

The project operates as a partnership with Canadian Blood Services, BC Transplant, and other health system and industry partners. The team includes Dr. Robert Liwski, Medical Director at Canadian Blood Services and Dalhousie University, along with specialists across British Columbia and Canada.

RESEARCH SUPPORT

The team received \$5.8 million in funding from Genome BC, Genome Canada, Michael Smith Health Research BC, Vancouver Coastal Health Research Institute, and other partners. Federal support was announced by the Minister of Innovation, Science and Industry at Genome Canada's national launch event in Ottawa.

Dr. James Lan

Assistant Professor, Department of Pathology & Laboratory Medicine, UBC

HEALTH SYSTEM BENEFITS

The research team estimates that national implementation could save the Canadian health system \$100 million annually through preventing hospitalization, premature graft loss, and death. BC Transplant supports the initiative as part of efforts to maximize the longevity of donated organs.

CLINICAL APPLICATIONS

The epitope-matching methodology aims to enable reduced use of immunosuppression medications and minimize organ rejection rates among transplant patients. The project builds on British Columbia's established leadership in organ transplantation research, supported by robust health research infrastructure and clinical outcomes.



Dr. Ali Bashashati

Associate Professor, SBME &
Department of Pathology &
Laboratory Medicine, UBC

AI-Powered Cancer Diagnostics Research

ENDOMETRIAL CANCER SUBTYPE DISCOVERY

Dr. Bashashati collaborated with Dr. Jessica McAlpine to develop an AI-based diagnostic approach for endometrial cancer, the most common gynecologic malignancy. Using deep learning methods, the team identified a distinct subset of endometrial cancer that carries significantly higher risk of recurrence and death but would otherwise remain unrecognized by traditional pathology and molecular diagnostics.

The research analyzed over 2,300 cancer tissue images to train an AI model that differentiates between cancer subtypes. The AI identified patterns within the largest molecular subtype category, which encompasses approximately 50% of all endometrial cancer cases, revealing patients with markedly inferior survival rates.

CLINICAL INTEGRATION AND APPLICATIONS

The AI tool analyzes routine tissue sample images collected by pathologists and healthcare providers, making it cost-efficient and deployable across diverse geographic settings. The approach complements existing molecular diagnostic tools, including the ProMiSE system developed by the B.C. Gynecologic Cancer Initiative.

The combined molecular and AI-based analysis enables appropriate treatment allocation, allowing many patients to receive care in their home communities while ensuring high-risk patients access specialized cancer centers when needed.

POPULATION HEALTH SIGNIFICANCE

The research addresses a significant healthcare challenge, with an estimated 8,600 Canadians diagnosed with endometrial cancer in 2024 and 1,600 expected deaths. The AI-based identification of high-risk patients enables targeted intervention strategies for those who would benefit from more comprehensive treatment.

TECHNOLOGY TRANSFER

Dr. Bashashati's team is exploring clinical integration of the AI tool alongside traditional diagnostics, supported by funding from the Terry Fox Research Institute. The technology offers potential for improved diagnostic equity and access across urban and rural healthcare settings.

PUBLICATIONS AND OUTREACH

The research findings were published in *Nature Communications* (DOI: 10.1038/s41467-024-49017-2), documenting the AI methodology and clinical applications for endometrial cancer risk stratification. Dr. Bashashati presented the research on the CKNW Jill Bennett Show, contributing to public understanding of AI applications in cancer care.

FUNDING AND COLLABORATIONS

The research was supported by the Terry Fox Research Institute, Canadian Institute of Health Research, Natural Sciences and Engineering Research Council of Canada, Michael Smith Foundation for Health Research, Canada Research Chairs Program, Canada Foundation for Innovation, BC Knowledge Development Funds, and the VGH & UBC Hospital Foundation.

Single Cell Genomics Research

EARLY BREAST CANCER ORIGINS STUDY

Dr. Aparicio led an international collaboration examining the genetic origins of breast cancer through single cell genome analysis. The study, conducted with researchers from BC Cancer, Harvard Medical School, and Memorial Sloan Kettering Cancer Center, analyzed the genomes of over 48,000 individual breast cells from 28 women without cancer.

The research identified cancer-like mutations in approximately 3% of breast cells from healthy women. These copy number alterations involve duplication or loss of large DNA segments and were detected specifically in luminal cells that line breast lobules and ducts, which are believed to be the cells of origin for major breast cancer types.

TECHNOLOGY DEVELOPMENT AND APPLICATION

The study utilized DLP+, an advanced single cell gene sequencing technology developed by researchers at UBC and BC Cancer. This computational approach enabled identification and analysis of rare genetic events not visible with standard sequencing methods.

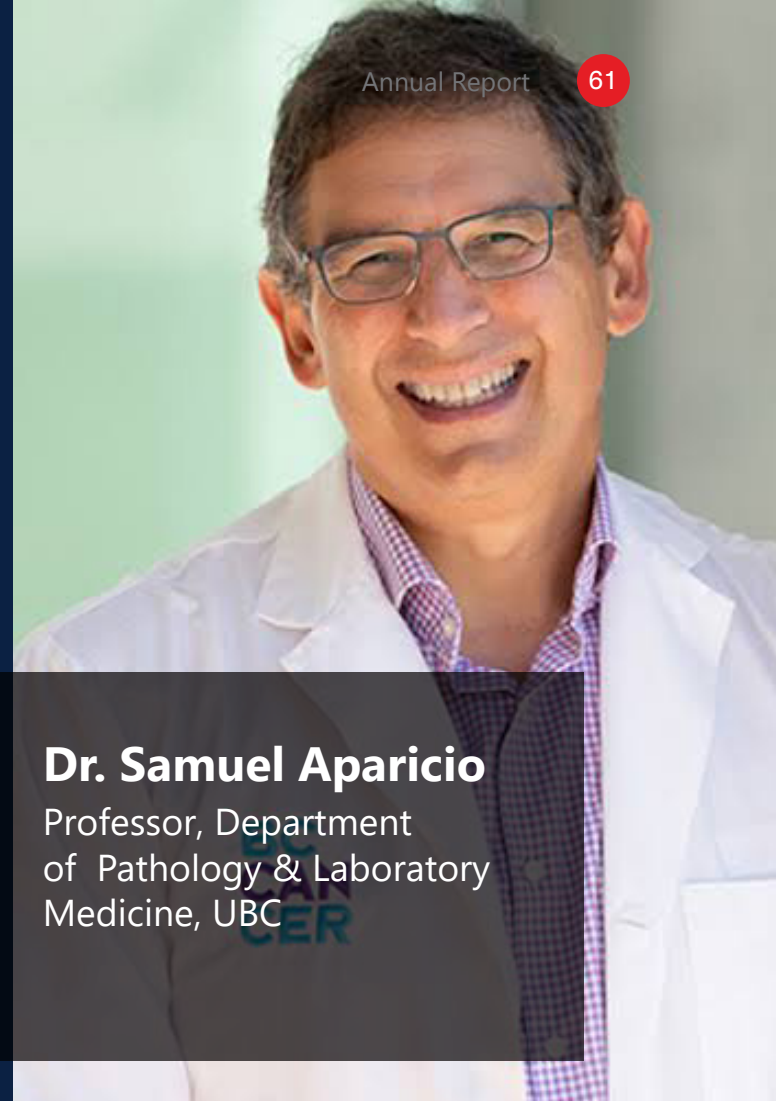
The research found that most mutated cells contained one or two copy number alterations, while some women carrying high-risk BRCA1 and BRCA2 genetic variants showed cells with six or more genetic changes, potentially representing progression toward cancer development.

INTERNATIONAL COLLABORATION

Research Team Leadership: Dr. Aparicio served as lead senior author alongside co-senior author Dr. Joan Brugge from Harvard Medical School and Dr. Sohrab Shah from Memorial Sloan Kettering Cancer Center. The study's first authors included Vinci Au from the Aparicio Lab, Dr. Michael Oliphant from the Brugge Lab, and Dr. Marc Williams from the Shah Lab.

MULTI-INSTITUTIONAL PARTNERSHIP

The collaboration combined expertise in single cell genomics, computational oncology, and cell biology to address fundamental questions about breast cancer development and the accumulation of genetic mutations in healthy tissue.



Dr. Samuel Aparicio

Professor, Department
of Pathology & Laboratory
Medicine, UBC

CLINICAL IMPLICATIONS

The findings suggest potential applications for early detection strategies and risk assessment, particularly for individuals with high-risk genetic variants. The research indicates that examining copy number alterations in other organs could reveal development patterns for other cancer types.

The study raises questions about mutation accumulation timescales and the specific targeting of luminal cells, providing foundation for future research into cancer risk factors and prevention approaches.

PUBLICATIONS AND FUNDING

The research was published in Nature Genetics (DOI: 10.1038/s41588-024-01988-0), documenting the single cell genomics methodology and clinical implications for breast cancer risk assessment. Funding support was provided by the Gray Foundation, US National Cancer Institute, BC Cancer Foundation, and the Halvorsen Center for Computational Oncology.



APPENDIX: FUNDING AND PUBLICATIONS FOR 2024

The following highlights showcase the diverse achievements of our faculty members throughout 2024. These reports represent significant contributions across research innovation, educational excellence, clinical advancement, and international collaboration. From groundbreaking discoveries in cancer research to pioneering educational programs and technological implementations, our faculty continue to advance knowledge and improve patient care on local, national, and global scales.

In 2024, our faculty collectively published over **640 peer-reviewed journal articles** and held **461 active research grants** as principal investigators (PIs) and co-principal investigators (co-PIs). These grants reflect both direct leadership and collaborative engagement in research initiatives, underscoring the depth and breadth of our department's scholarly impact.

FACULTY GRANTS AND RESEARCH FUNDING 2024

Source: Faculty Activity Database (FAD)

This table includes all active grants in our department for 2024, where our faculty members are serving as Principal Investigators (PIs) or Co-Principal Investigators (Co-PIs). Unlike previous summaries, this list reflects both newly awarded and ongoing grants, providing a comprehensive snapshot of research funding activity for the current year.

Aparicio, Samuel	2024-2025	Osteosarcoma Institute	G-quadruplex binders as a promising therapeutic strategy in metastatic osteosarcoma	100,000 USD
Aparicio, Samuel	2024-2025	Breast Cancer Research Foundation	Developing predictive biomarkers for genome targeting agents in TNBC, to single cell resolution	225,000 USD
Aparicio, Samuel	2024-2026	Gray Foundation	Development of Prevention and Detection Approaches to Mitigate Risk in BRCA1/2 Germline Mutation Carriers	716,928 USD
Aparicio, Samuel	2024-2026	Terry Fox Research Institute & Marathon of Hope Cancer Centres Network	MOHCCN: Cell-free whole genome and epigenome sequencing to detect and classify cancers from plasma circulating DNA	91,000.00
Aparicio, Samuel	2024-2027	US Department of Defense	Decoding how distinct mechanisms of genomic instability, found in TNBC patients, program the tissue microenvironment and therapy response at metastatic sites	807,400 USD
Aparicio, Samuel	2023-2028	CIHR	Decoding the impact of single cell mutational processes in triple negative breast cancer and high grade serous ovarian cancer	1,040,400.00
Aparicio, Samuel	2023-2028	Canadian Institutes of Health Research (CIHR)	Mechanisms and targeting of repair deficient cancers with G-quadruplex small molecule ligands	1,048,050.00
Aparicio, Samuel	2022-2025	US Department of Defense (DOD)	Decoding and targeting genomic instability in pediatric osteosarcoma	398,500 USD
Aparicio, Samuel	2022-2025	Gray Foundation	Breast Pre-cancer Atlas	488,950 USD
Aparicio, Samuel	2022-2026	Alexandria's Lemonade Stand Foundation	Defining and exploiting novel vulnerabilities for the treatment of metastatic osteosarcoma	240,000 USD
Aparicio, Samuel	2022-2026	Department of Defense (USA)	Therapeutic targeting of genomic instability in triple negative breast cancer	907,170 USD
Aparicio, Samuel	2022-2029	Canada Research Chairs	Chair in Molecular Oncology (Tier 1)	1,400,000.00
Aparicio, Samuel	2021-2026	BC Cancer Foundation and University of British Columbia	Breast cancer evolution and therapeutics program, Nan and Lorraine Robertson Chair in Breast Cancer Research	11,000,000.00
Aparicio, Samuel	2020-2026	Terry Fox Research Institute (TFRI) - and BC Cancer Foundation	Precision Medicine in Breast Cancer (B-PRECISE): Managing residual disease and drug resistance in breast cancer	1,753,440.00
Aparicio, Samuel	2018-2025	Terry Fox Research Institute (TFRI)	The Terry Fox New Frontiers Program Project Grant in New Vistas on Cancer Biology and Treatment: Conceptual Advancements from the For Me Fruste Project	6,012,984
Aparicio, Samuel	2017-2027	University of British Columbia (UBC)	Distinguished University Scholar	220,000
Au, Nicholas	2020-Present	BCCHR (Dr. Donald B. Rix and Lab Medicine Grant)	Platelet functional investigation by flow cytometry: determination of clinical utility and pediatric platelet function	50,000
Bally, Marcel	2024-2029	CIHR	Copper Associated Immunogenic Cell Death: Improving the Therapeutic Potential of Immune Check Point Inhibitors for the Treatment of Metastatic Bladder Cancer	206,000

Bally, Marcel	2023-2025	NanoMedicines Innovation Network (NMIN)	Irinosome High C: a novel liposomal formulation of Irinotecan for treatment of cancers	50,000
Bally, Marcel	2023-2025	NanoMedicines Innovation Network (NMIN)	PharmaCore: Strategic Plan and Vision	48,000
Bally, Marcel	2023-2025	NanoMedicines Innovation Network (NMIN)	MicroRNA-inhibitor delivered in lipid nanoparticles to reduce lung injury in mouse models of acute respiratory distress syndrome	18,245.46
Bally, Marcel	2023-2025	NanoMedicines Innovation Network (NMIN)	PharmaCore: Business Planning and NMIN Legacy Implementation Strategy Development	48,000
Bally, Marcel	2023-2026	Nanomedicines Innovation Network (NMIN)	Nano-Medicines for treatment of a H1N1 Flu model and of potential use in the treatment of other models of airway infection models	200,000
Bally, Marcel	2021-Present	Canadian Institutes of Health Research	A Novel Formulation of the Anticancer Drug Candidate CX5461 that Relies on Metal Chemistry and Liposomal Nanotechnology: Development for use in Treatment of Pancreatic Cancer's with BRCA Deficiencies; an Orphan Indication	765,000
Bally, Marcel	2012-2025	NanoMedicines Innovation Network (NMIN)	miRNA for replacement therapy for heart and lung dysfunction using a caecal ligation and puncture model for severe infection and sepsis.	18245,56
Barakauskas, Vilte	2023-2026	BCCH Pathology & Lab Medicine Seed Grant	Pilot Project for the Evaluation of Automated Plasma Cytokine Analysis for CAR-T cell associated Cytokine Release Syndrome	10,000
Barakauskas, Vilte	2022-2025	Dr. Donald B Rix Pathology and Lab Medicine Research Grant	Impact of Computerized Physician Order Entry on Pediatric Laboratory Service Provision	50,000
Bashashati, Ali	2024-2025	Innovate BC, Government of BC & Federal Government	Provincial Digital Pathology Testbed (portion of funding to our team at VGH: \$750,000). Press release: https://news.gov.bc.ca/releases/2024JEDI0037-001113	7,500,000
Bashashati, Ali	2024-2026	Gynaecological Cancer Initiative - Plunge for the Cure Impact Grants	Role of AI-driven histopathology image analysis in predicting response to PARP inhibitors (PARPi) in high grade serous ovarian cancer	125,000
Bashashati, Ali	2024-2026	BC Cancer Foundation & TD Bank	AI-driven ovarian cancer histotype classification " validation on international cohorts	250,000
Bashashati, Ali	2024-2026	Gynaecological Cancer Initiative Research Awards	Artificial Intelligence for Pathology Profile Diagnostics	20,000
Bashashati, Ali	2024-2029	Canadian Institute for Health Research (CIHR)	"aRtificial intElligence-driven computational pathology platform for bLadder Cancer subTyping (REACT) Note: ranked 2/44 in the committee"	845,326
Bashashati, Ali	2023-2029	NSERC Collaborative Research and Training Experience (CREATE) program	MUlti-Scale multi-modal Image & omics Computing for health (MUSIC)	1,650,000
Bashashati, Ali	2022-2026	Terry Fox Research Institute (TFRI) New Frontiers Program Project	Precision Oncology for Endometrial Carcinoma (EC) Patients	2,400,000
Bashashati, Ali	2021-2025	Canadian Foundation for Innovation (CFI), JELF Program & BC Knowledge Development Fund (BCKDF)	AI-driven platform for translating precision medicine discoveries in women's cancers	1,008,260
Bashashati, Ali	2021-2026	Canadian Institute for Health Research (CIHR)	Prostate cancer risk stratification for active surveillance using computer-aided analysis of histopathology and transcriptomics	906,525
Bashashati, Ali	2021-2026	Michael Smith Foundation for Health Research (MSFHR)	AI-driven integration of omics and histopathology for biomarker discovery in cancer	450,000

Bashashati, Ali	2021-2026	Canadian Institute for Health Research (CIHR)	Circulating Tumour DNA Analysis Informing Adjuvant Chemotherapy in Stage III Colorectal Cancer: A Multicentre Phase II/III Randomised Controlled Trial (DYNAMIC-III)	1,426,724
Bennewith, Kevin	2023-2026	BC Cancer Foundation	Basic/translational research to improve radiotherapy efficacy for localized and metastatic cancer	266,667/yr
Bennewith, Kevin	2023-2026	Canadian Cancer Society Challenge Grant	Repurposing the angiotensin II receptor blocker telmisartan to promote anti-tumour immune responses	170,000/yr
Bennewith, Kevin	2023-2028	Canadian Institutes of Health Research	Glucose restriction-mediated changes to mitochondria as a driver of anti-tumour CD8+ T cell function	196,605/yr (10%)
Bennewith, Kevin	2022-2027	Canadian Institutes of Health Research	Simultaneously targeting cancer cells and tumor stroma to improve detection sensitivity and therapeutic efficacy of radiopharmaceuticals	154,530/yr (5%)
Bennewith, Kevin	2021-2026	Canadian Institutes of Health Research (CIHR)	Targeting cancer-associated fibroblasts and tumour hypoxia with angiotensin II receptor blockers	195,840/yr
Bush, Jonathan	2021-Present	Society for Pediatric Pathology Young Investigator Research Grant 03/13/2021	High-resolution mass spectrometry proteomic analysis in osteosarcoma with a focus on activated beta-catenin	25,000 (USD)
Bush, Jonathan	2021-Present	BC Children's Hospital Research Institute 2021 Seed Grant. 02/26/2021.	Novel Mass Spectrometry Based Spatial-Omics: Investigation into the Micro-Environment of Pediatric Wilms Tumor	30,000
Bush, Jonathan	2021-Present	Dr. Donald B. Rix Pathology & Laboratory Medicine Research Grant. 01/11/2021.	Immune Cell Profiling in Transcriptome-Defined SMARCB1 and SMARCA4-Deficient Pediatric Tumors	50,000
Bush, Jonathan	2021-Present	BC Children's Hospital Research Institute Evidence to Innovation Theme Seed Grant. 12/17/2021	Intra-operative Cell Salvage for Pediatric Bone Cancer Surgery	10,000
Bush, Jonathan	2019-Present	BC Children's and Women's Department of Pathology Microgrant. 10/25/2019	ABC as a Marker for Metastatic Potential in Pre-treatment Osteosarcoma Biopsies	9,895
Hélène Côté	2023-2027	CIHR project grant - Community Based Research	REDOSE-Women: ReEvaluating antiretroviral Drug Concentrations and Side Effects in older women	499,027
Hélène Côté	2021-2025	CIHR	Role of Female Sex Hormones on Aging in Women Living with HIV	382,500
Hélène Côté	2021-2025	CIHR	CMV Dynamics and Transmission in Pregnancy: Comparison Between Women Living with and without HIV	884,530
Hélène Côté	2021-2026	CIHR HIV Clinical Trial Network	CTN 355 The British Columbia CARMA-CHIWOS Collaboration (BCC3): the role female sex hormones and chronic/latent co-infections and on cellular aging and comorbidities in women living with HIV	61,083
Champagne, Sylvie	2009-Present	Pfizer	Vancomycin Minimum Inhibitory Concentrations (MIC) and Methicillin-Resistant Staphylococcus aureus (MRSA) in Downtown Vancouver: Investigating MIC Creep	4,875
Chen, Michael	2023-Present	Vancouver Island Health Authority Catalyst Grant	Rapid Pathogen Identification Using Lipidomics in Ventilated Patients with Pneumonia	100,000
Chen, Michael	2022-2025	Canadian Institutes of Health Research	Re-purposing the Ordering of 'Routine' laboratory Tests among hospitalized medical patients (RePORT study)	665,552
Chen, Michael	2020-Present	UBC Faculty of Medicine Genome BC	BC COVID19 Biobank Network	250,000

Chen, Michael	2018-Present	University of Victoria Division of Medical Sciences	Building Translational Omics Research on Vancouver Island	1,200,000
Chipperfield, Katherine	2019-Present	BC Clinical Support Unit and Michael Smith Foundation	"Supporting Patient participation in pediatric and pregnancy reference interval studies	19,997
Chow-White, Peter	2018-Present	Genome BC and Genome Canada Large Scale Applied Research Project - Genomics and Precision Health	Genomic Outcomes Databank for Pharmacogenomic and Implementation Studies (Go PGx).	2,749,021
Chow-White, Peter	2017-Present	Greenwell Foundation	Developing best practices for medical crowdfunding.	47,688
Chow-White, Peter	2017-Present	SSHRC and Genome Canada	Big data collaborative networks: The role of communication in the development of genomic technologies.	179,340
DeMarco, Mari	2023-Present	Alzheimer Society & CIHR	CCNA - Knowledge Translation Exchange Program	10,000
DeMarco, Mari	2023-Present	CIHR - Catalyst Grant	Cognitive aging in middle and older-aged Canadians: Consideration of genetic risk, modifiable factors, and biological sex	68,970
English, John	2009-Present	BC Lung Association	â€œA randomized controlled trial to determine if thoracoscopic resection of subcentimetre after localization using percutaneously inserted platinum microcoils under CT guidance reduces rate of conversion to open thoracotomy from 50% to 10%.â€	60,000
English, John	2004-Present	BC Lung Association	â€œThoracoscopic resection of subcentimetre lung nodules after localization using percutaneously inserted platinum microcoils under CT guidance: a pilot study.â€	21,400
English, John	2003-Present	UBC Department of Surgery Concept Awards	â€œThoracoscopic resection of subcentimetre lung nodules after coil localization using percutaneously inserted platinum microcoil under CT guidance: A pilot studyâ€.	8,000
English, John	1997-Present	W.L. Gore and Associates, Inc.	In vivo animal trial of the Propaten TM heparin coated vascular graft in a coronary bypass procedure	186,654
English, John	1996-Present	Thoratec Laboratories, Ltd	In vivo animal trial with small diameter arterial grafts.	192,000
Fenninger, Franz	2024-2024		Randomized, Multicenter Canadian Trial to Evaluate the Clinical Utility of Donor-Derived Cell Free DNA Testing for Renal Allograft Injury.	980,000
Fenninger, Franz	2024-2024	Vancouver Coastal Health Research Institute.	Innovation and Translational Research Award: Clinical FlowPRT - Detecting HLA specific T cells using single antigen beads.	75,000
FongLee, Anna	2024-2028	National Institutes of Health	Functional Genomics Across an Ethnically and Racially Diverse Endometriosis Population	607,397 (USD)
FongLee, Anna	2022-2026	Canadian Institutes of Health Research	Clinical-biomarker predictors of outcome after endometriosis surgery	784,125
Gadkar, Vijay	2024-2025	Dr. Donald. B. Rix Pathology and Laboratory Medicine Research Fund	Establishment of a pilot clinical database and specimen biorepository for further microbiology investigations (e.g. next generation sequencing) in children who are test-negative with routine investigations.	20,000
Gadkar, Vijay	2022-Present	BC Children's Healthy Starts Research Theme	Validating a molecular approach for pathogen detection to understand the epidemiology of sepsis in young infants treated at health facilities in low-resource settings	39,768
Gao, Zu-Hua	2024-2024	JELF CFI application successful, 350,000 dollars will be awarded January 1st 2024		

Gao, Zu-Hua	2023-Present	Canadian Cancer Society Team Grant	Hydrogel-based adhesive artificial mucosa: a paradigm-shifting platform for postsurgical wound repair, local precision therapy and prevention of cancers of the esophagus and stomach.	1,500,000
Gao, Zu-Hua	2021-2026	The Canadian Institutes of Health Research	Matricellular protein CCN5/WISP2 mediates a synergistic stimulation of pancreatic beta-cell expansion by IGF-I and Wnt signaling. PJ9-173593	811,450
Geltink, Ramon	2024-2025	Breakthrough T1D (previously JDRF) Centre of Excellence seed grant competition	Translating in vitro assays for single cell metabolism to islet biology in T1D	30,000
Geltink, Ramon	2024-2026	Michael Cuccione Foundation	Reverse-engineering CAR-T cells for better solid tumour infiltration	396,000
Geltink, Ramon	2024-2026	Carraresi Foundation	G6PD and the pentose phosphate pathway : potential targets in ARID1A mutant gynecological cancers	20,000
Geltink, Ramon	2023-2025	Canucks for Kids Diabetes Laboratories / BC Children's Hospital Foundation	Beta cell triosephosphate isomerase (TPI) as a novel therapeutic target in diabetes	70,000
Geltink, Ramon	2023-2028	The Canadian Institutes of Health Research	"Glucose restriction-mediated changes to mitochondria as a driver of anti-tumour CD8+ T cell function."	983,026
Geltink, Ramon	2022-2026	CIHR Team Grant: Diabetes Mechanisms and Translational Solutions	Immunometabolism in diabetes: harnessing metabolic crosstalk between islets and immune cells for therapy	2,000,000
Geltink, Ramon	2022-2027	Michael smith Health Research BC	The links between nutrient sensing, cell intrinsic metabolism and T cell function in immune-related diseases	450,000
Geltink, Ramon	2022-2027	Canada Foundation for Innovation (CFI) John R. Evans Leaders Fund	Metabolic Monitoring of Immune Cell Function (MetaboFlow)	125,000
Geltink, Ramon	2022-2027	B.C. Knowledge Development Fund (BCKDF) John R. Evans Leaders Fund matching funds	Metabolic Monitoring of Immune Cell Function (MetaboFlow)	125,000
Geltink, Ramon	2021-2026	Canadian Cancer Society - Early Scholar Award competition	Metabolic Conditioning of T cells for Immunotherapy of Cancer	600,000
Geltink, Ramon	2020-2026	NSERC	Cell intrinsic regulation of central carbon metabolism in effector T cells	192,500
Giambra, Vincenzo	2021-Present	Messengers of Knowledge Grant. Italian Ministry of Education, University and Research (MIUR) federal funding	Analytical methods for the identification and characterization of cancer stem cells	36,600 (Euros)
Godolphin, William	2024-2026	AN-Erasmus+ (Agência Nacional Erasmus+ Educação e Formação)	PULPIT Programme: Public and Patient Involvement in Interprofessional Education of Undergraduate Healthcare Students	30,888.36 Euros (45,184.11)
Goldfarb, David	2022-2026	HAIs, AMR, and Pandemic Preparedness	Botswana (HAP-Net Botswana) Project	592,249 USD
Grant, Jennifer	2022-Present	Canadian Institutes of Health Research	Staphylococcal Network Adaptive Platform trial -- Canadian arm	1500 per patient
Grant, Jennifer	2020-Present	Canadian Institutes of Health Research	Canadian Treatments for COVID-19 (CATCO)	1500 per patient
Grant, Jennifer	2018-Present	Canadian Institutes for Health Research	Bacteremia Antibiotic Length Actually Needed to treat for Clinical Efficacy (BALANCE) trial	1000 per patient
Granville, David	2022-2026	CIHR	Advanced biomatrices and drug repurposing: novel approaches for impaired wound healing	715,276 (Transferred from retired PI)

Granville, David	2022-2027	CIHR	Novel mechanisms and therapeutic approach for aging-related pruritus (Ranked #1 out of 50)	872,100
Granville, David	2020-Present	Wings for Life	An unbiased bioinformatic approach identifies sulfaphenazole as a promising neuroprotective therapy to improve motor and autonomic systems after spinal cord injury	200,000 Euros
Granville, David	2020-Present	Abcellera	Antibody screening	889,341
Grynspan, David	2023-Present	BCCHR Catalyst grant (Co-Applicant)	Placental Growth Factor to Reduce Urgent Maternal and Neonatal Transport in BC: A pilot study	39,920
Gubbay, Jonathan	2024-Present	Toronto COVID-19 Action Fund	Just-in-time pathogenomics for SARS-CoV-2, data for immediate action	
Gubbay, Jonathan	2024-Present	GSK	Implementation of Phenotypic Testing for the Detection of Resistance to Neuraminidase Inhibitors in Ontario Public Health Laboratories	
Gubbay, Jonathan	2024-Present	Hoffman La-Roche	Reversal of Oseltamivir Resistance in influenza A/H1N1 during treatment	
Gubbay, Jonathan	2024-Present	Canadian Institute of Health Research (CIHR)	Sentinel Network to Monitor Influenza Vaccine Effectiveness during Annual Outbreaks and Pandemics	
Gubbay, Jonathan	2024-Present	Canadian Institutes of Health Research (CIHR)	A novel Canadian platform to reduce the mortality of novel H1N1 influenza	593,875
Gubbay, Jonathan	2024-Present	Ontario Ministry for Research and Innovation Grant	Rapid Influenza Testing to Enable Treatment Decisions	
Gubbay, Jonathan	2015-Present	Canadian Institutes of Health Research (CIHR)	Development and validation of an electronic application to enable rapid cause-of-death assessment for Ebola and other acute viral hemorrhagic fever deaths	
Gubbay, Jonathan	2013-Present	Physicians Services Incorporated (PSI)	Characterization of viral infectious bioaerosols in the healthcare setting	
Gubbay, Jonathan	2013-Present	Canadian Institutes of Health Research (CIHR)	Mathematical Modeling of Measles Immunity in Canada	
Gubbay, Jonathan	2013-Present	Thrasher Foundation Grant	Effect of prenatal vitamin D supplementation on acute respiratory infections in infants in Bangladesh	
Gubbay, Jonathan	2011-Present	Canadian Institutes of Health Research (CIHR)	Immunity of Canadians and Risk of Epidemics (iCARE): Serologic immunity of Canadians to measles, mumps, rubella and varicella zoster virus - impact of immunization and implications for future control	
Gubbay, Jonathan	2010-Present	National Institutes of Health (NIH)	Predictors of influenza severity in children	
Guillaud, Martial	2024-2026	Canadian Cancer Society	A simple blood test for the early detection of recurrent oropharyngeal cancer	440,000
Guillaud, Martial	2024-2026	BC Cancer Foundation	Predicting upgrade from ADH and low-grade DCIS to invasive ductal carcinoma using histology-based DNA organization analysis	300,000
Guillaud, Martial	2022-2025	Fanconi Anemia Research Fund	Cytology based DNA analysis to investigate the malignant potential of oral lesions in patients with Fanconi anemia	304,000
HangLee, Lik	2022-Present	St. Paul's Hospital	Evaluating formaldehyde exposure in a pathology lab with multiple methods: How does background alcohol affect real-time readings?	
Hirsch-Reinshagen, Veronica	2023-2025	New Frontiers in Research Fund	The cell-type-specific basis of epilepsy and treatment in the living human brain	125,000

Hirsch-Reinshagen, Veronica	2023-2026	US Department of Defence	Advanced Physiologic Monitoring at the Site of Spinal Cord Injury	567,000
Hirsch-Reinshagen, Veronica	2023-2027	CIHR	Neuropathology of cognitive impairment in chronic schizophrenia	151,088
Hoang, Linda	2019-Present	Genome BC: GeneSolve Program	Stakeholders Targeting Emerging Anti-Microbial Resistant Organisms to Learn Lessons and Evaluate Response (STEAMROLLER)	88,000
Hogan, Catherine	2021-2026	Michael Smith Foundation for Health Research	"Health Professional Investigator (HP-I) Award	
"	450,000			
Horst, Basil	2021-2026	NIH/National Cancer Institute	Applying pathomics to establish a biosignature for aggressive skin melanoma.	USD 250,000 (yr)
Hrynychak, Monica	2024-2025	RCH Foundation	Validation and pilot project to study non-small cell lung cancer solid tumours using next generation sequencing technology (Genexus Integrated Sequencer)	200,000
Hrynychak, Monica	2024-Present	RCH Foundation	Validation and operation of the Genexus Purification System to be used to extract DNA for chromosomal microarray analysis and to extract DNA and RNA for the study of non-small cell lung cancer solid tumours using next generation sequencing	102,000
Hume, Stacey	2020-2025	Genome Canada	TIGeR: Translational Implementation of Genomics for Rare diseases	5,000,000
Huntsman, David	2024-2029	Canadian Institutes of Health Research	DICER1 tumour predisposition syndrome: dissecting the oncogenic mechanisms with a novel lineage-trackable genetically engineered mouse model	1,120,726
Huntsman, David	2024-2029	OCRA Ovarian Cancer Research Alliance	The Ovarian Cancer Observatory: A research partnership to improve ovarian cancer prevention	1,500,000
Huntsman, David	2023-2027	Department of Defense	"The Ovarian Cancer Observatory: Prevention, Impact, and Learning from Opportunistic Salpingectomy	
"	880,000			
Huntsman, David	2022-2026	Terry Fox Research Institute	Precision Oncology for Endometrial Carcinoma Patients	2,200,000 CAD
Huntsman, David	2022-2027	Canadian Institutes of Health Research	Digital self-tracking for early detection of endometrial cancer during reproductive aging	1,150,000 CAD
Huntsman, David	2022-2029	CIHR	Canada Research Chair in Molecular and Genomic Pathology	1,400,000
Huntsman, David	2021-2025	Canadian Institutes of Health Research	Exploit the metabolic vulnerabilities in SWI/ SNF-deficient cancer	688,501
Huntsman, David	2021-2026	Canada Foundation for Innovation	Cancer Single Cell Dynamics Observatory	5,992,026
Huntsman, David	2021-2027	Canadian Institutes of Health Research	Tailored adjuvant therapy in POLE-mutated and p53-wildtype early stage endometrial cancer (TAPER)	1,082,474
Hutspardol, Sakara	2024-2024		Four-factor prothrombin complex concentrate versus frozen plasma in bleeding adult cardiac surgery patients requiring coagulation factor replacement: the LEX- 211 (FARES- II) trial	227,165
Hutspardol, Sakara	2024-2025	Canadian Donation and Transplantation Research Program (CDTRP; formerly CNTRP)	Accelerating the Translation of a Novel Anti-ABO Antibody Detection Technology	30,000
Hutspardol, Sakara	2022-2025	Faculty of Medicine, University of British Columbia	New Faculty of Medicine Research Award	10,000

Jassem, Agatha	2024-2025	CIHR - Catalyst Grant: Avian Influenza OneHealth Research	Developing a multiplex serology assay for the detection of highly pathogenic influenza	150,000
Jassem, Agatha	2024-2028	CIHR - Health Services and Policy Research	Establishing the Framework for Decentralized Hepatitis C Point-of-Care Testing and Treatment in Canada: An Implementation Science-based Approach	656,371
Jassem, Agatha	2024-2029	CIHR	Optimizing STBBI health outcomes through precision health	1,997,415
Jassem, Agatha	2023-2025	CIHR - Mpox (monkeypox) and zoonotic threats	Optimizing Mpox surveillance strategies and preventing epidemic resurgence: a three-province mathematical modelling study	500,000
Jassem, Agatha	2023-2027	CFI Biosciences Research Infrastructure Fund	BOLSTER-3-Pathogen Research: Building Operational Laboratory Strength to enhance Risk 3 pathogen research	4,148,345
Jassem, Agatha	2020-2025	CFI	Linking Transmission Metadata to Viral Genotype and Serological Response of COVID-19	620,000
Jefferson, Terry	2024-2026	BC Children's Hospital	Digital Spatial Profiling of Colonic Mucosal Inflammatory Cells in the Sudden Infant Death Syndrome	25,000
Jefferson, Terry	2022-2025	Wellcome Trust	STIMULUS - Stillbirth risk Identification using MULTiparametric UltraSound	3,800,000
Jefferson, Terry	2021-2026	BC Children's Hospital	Maternal Serum Biomarkers of Acute Chorioamnionitis	40,000
Karsan, Aly	2024-2025	BC Cancer Foundation (Innovation Support Fund)	QIAGEN QIAcuity dPCR	74,595
Karsan, Aly	2024-2026	Canada Foundation for Innovation	Overcoming therapy resistance in leukemia	1,610,000
Karsan, Aly	2024-2026	Leukemia and Lymphoma Society of Canada	Bypassing Lenalidomide resistance in deletion 5q myelodysplastic syndrome	200,000
Karsan, Aly	2024-2027	BC Cancer Agency	BC CLL Research Program	1,200,000
Karsan, Aly	2024-2028	V Foundation for Cancer Research	Non-genetic mechanisms of therapy resistance in myeloid cancers	USD800,000
Karsan, Aly	2024-2029	Terry Fox Research Institute	The Terry Fox New Frontiers Program Project Grant in Strategies to Divert Malignant Potentials in Acute Leukemia	7,500,000
Karsan, Aly	2023-2026	Terry Fox Research Institute	Single cell sequencing to interrogate the evolving clonal structure of leukemia from diagnosis to relapse	360,000
Karsan, Aly	2022-2027	Canadian Institutes of Health Research	Clonal interactions in myeloid malignancy	1,025,100
Karsan, Aly	2022-2027	Canadian Institutes of Health Research	Role of SASH1 in generation of hematopoietic stem cells	948,600
Karsan, Aly	2020-2025	Terry Fox Research Institute (MoHCCN Pan-Canadian Project Program)	Genomic and epigenomic sequencing to understand resistance and relapse in AML	1,915,200
Kizhakkedathu, Jayachandran	2024-2025	Veterans Affairs Canada (VAC) and Canadian Army	Development of new approaches to improve the supply of universal 'O-type' red blood cells	250,000
Kizhakkedathu, Jayachandran	2024-2025	Genome BC, GeneSolve Project (with Avivo Biomedical Inc)	Development of a human in vitro transplant model for studying ABO blood group removal, re-expression and silencing	280,300
Kizhakkedathu, Jayachandran	2024-2027	Heart and Stroke Foundation of Canada	Immune complex disruption and dissociation using novel inhibitors as a treatment for heparin-induced thrombocytopenia	273,900
Kizhakkedathu, Jayachandran	2024-2028	CBRF	Advanced LNP RNA Vaccines Engineered with Next-Generation Designs to Enhance Pandemic Readiness	570,668

Kizhakkedathu, Jayachandran	2024-2029	CIHR Project grant	Transfusion Without Blood Typing: Enzymatic Glycoengineering Towards 'True' Universal Blood	1,013,626
Kizhakkedathu, Jayachandran	2024-2029	NSERC	Novel Biomaterials Design Concepts in the Development of Immunomodulating Materials and Bioactive Surfaces	310,000
Kizhakkedathu, Jayachandran	2023-2025	Health Research BC	Automatic Washing Protocols for the Development of Universal Blood	150 000
Kizhakkedathu, Jayachandran	2023-2026	CIHR	Localized immuno-cloaking organ engineering approach to prevent transplant rejection without immunosuppressants	801,000
Kizhakkedathu, Jayachandran	2023-2029	NSERC-CREATE	Charging into the Future (CITF): Training in Polyelectrolyte Biosystems for Tomorrow's Health Challenges	1,650,000
Kizhakkedathu, Jayachandran	2022-2029	Canada Research Chair Program	Tier 1 CRC in Immunomodulation Materials and Immunotherapy	1,400,000
Kizhakkedathu, Jayachandran	2021-2025	US Department of Defense office	Toward Universal Whole Blood in the Battlefield	US 4026689
Kizhakkedathu, Jayachandran	2020-2025	Canadian Institutes of Health Research (CIHR)	Novel endothelial engineering and localized immunosuppression approaches for the protection of organ transplants	917,500
Kos, Zuzana	2021-Present	University of Ottawa - Dutkevich Summer Student Award	Funding for Medical Student (Tadros Attala) for Summer Research Project	3,500
Lam, Wan	2023-2027	Terry Fox Research Institute (TFRI)	The Terry Fox New Frontiers Program Project in The Environment and Lung Cancer	2,400,000
Lam, Wan	2023-2028	Canadian Cancer Society - Breakthrough Grant	Changing the narrative of lung cancer to improve prevention for non-smokers	5,197,879
Lam, Wan	2022-2027	CIHR	Targeting lung microbiome for developing early detection and intervention strategies for lung cancer	914,176
Lam, Wan	2021-2028	BC Cancer Foundation	"PRO-Lung: Prevention and Research to Improve Outcomes for Lung Cancer, Platform II: Biology and Preclinical Therapeutics	2,940,000
Lam, Wan	2021-2028	BC Cancer Foundation	PRO-Lung: Prevention and Research to Improve Outcomes for Lung Cancer, Core II: Single Cell Phenomics and Computation Biology	2,125,000
Lam, Wan	2015-2025	CIHR Foundation Scheme (on no cost extension)	An Integrative Approach to Understand Lung Cancer Development in Smokers and Non-smokers Carcinogenesis	2,631,735
Lan, James	2024-2024	UBC Research Facility Support Grant	Upgrade to Biobank Freezers for BC Provincial Transplant BioBank for Immune Disease Research Cluster	41.50
Lan, James	2024-2026	VCHRI 2024 Innovation and Translational Research Award	Clinical FlowPRT - Detecting HLA specific T cells using single antigen beads	75,000
Lan, James	2024-2028	CIHR Project Grant Spring 2024	A prospective interventional study to prevent allosensitization in patients who have failed a first kidney transplant	539,326
Lan, James	2023-2025	CDTRP - Canadian Donation and Transplantation Research Programme - Research Innovation Grant Competition	Accelerating the Translation of a Novel Luminex Anti-ABO Antibody Detection Technology to Expand the Use of ABO-Incompatible Transplantation in Canada	30
Lan, James	2023-2027	Genome Canada: Genomics Applications Partnership Program	A National prospective epitope-compatibility matching program for Canadian renal transplant patients	5,823,737
Lan, James	2021-2026	Michael Smith Foundation for Health Research Scholar	Implementation of a Canadian willingness to cross program: A strategy to increase access to kidney transplantation for highly sensitized patients	75,000

Lan, James	2021-2026	Michael Smith Foundation for Health Research Scholar	Implementation of a Canadian willingness to cross program: A strategy to increase access to kidney transplantation for highly sensitized patients	375,000
Lange, Philipp	2024-2026	CIHR	Cell2Spec: High-resolution spatial sampling coupled with in-line processing and mass spectrometric analysis for single-cell proteomics	300,000
Lange, Philipp	2024-2028	BC Children's Hospital Foundation	Proteomics Research Suite Phase 2 & 3	2,330,000
Lange, Philipp	2023-2027	BC Children's Hospital Foundation	Advanced mass spectrometers for precision proteomics	1,650,000
Lange, Philipp	2022-2025	MITACS	Optimizing precision oncology at BC Children's Hospital	565,000
Lange, Philipp	2022-2026	CIHR	Canadian Pediatric Cancer Consortium	23,000,000
Lange, Philipp	2022-2027	CIHR - Project Grant	Novel mechanisms and therapeutic approach for aging-related pruritus	1,250,000
Lange, Philipp	2022-Present	CIHR - Project	Understanding the requirements of alanine supply and demand in pancreatic ductal adenocarcinoma	1,395,000
Lange, Philipp	2021-2026	CIHR Project Grant	Investigating the Adamts19-dependent mechanisms that regulate valve maturation	1,086,300
Lange, Philipp	2021-2026	CIHR Project Grant	Targeting CD47 in pediatric acute lymphoblastic leukemia	1,028,925
Lange, Philipp	2021-2026	Michael Cuccione Childhood Cancer Foundation	BRAvE Research Initiative	2,000,000
Lange, Philipp	2020-2025	BC Children's Hospital Research Institute	BCCHRI Investigator Grant Award Program	300,000
Lange, Philipp	2020-2025	CIHR Project Grant	Tumour microenvironment mediated cell surface shedding creates unique targets and markers	952,425
Lange, Philipp	2020-2025	CIHR / Canada Research Chairs	Canada Research Chair (Tier II) in Translational Proteomics of Pediatric Malignancies	500,000
Lange, Philipp	2018-2026	NSERC Discovery Grant	Bioinformatics resources for genome wide assessment of protein function at the proteoform level	200,000
Leung, Victor	2024-2025	Canadian Institutes of Health Research	An international platform for finding the optimal therapies for Pneumocystis jirovecii pneumonia: The PCP Platform	1,683,000
Lockwood, William	2023-2025	Cancer Research Society	ILK as a mediator of drug tolerant persister cell survival and target for combination therapy in EGFR mutant lung adenocarcinoma	125,000
Lockwood, William	2023-2027	Terry Fox Research Institute - New Frontiers Program Project Grants	Environment and Lung Cancer	2,400,000
Lockwood, William	2021-2026	Canadian Institutes of Health Research (CIHR)	Understanding the effects of ERK hyperactivation in cancer: implications for therapy	956,250
Lockwood, William	2021-2026	BC Cancer Foundation	PRO-Lung Platform II: Biology and Preclinical Therapeutics	2,940,000
Luo, Honglin	2024-2026	CIHR	A platform for developing mutation-resistant vaccines and antibodies for future viral variants, using SARS-CoV-2 as a model	320,000
Luo, Honglin	2023-2025	Canada Foundation for Innovation	Transformative and disruptive systems immunology	7,140,211
Luo, Honglin	2023-2026	Heart & Stroke Foundation of Canada (Grant-in-aid)	Innate inflammatory mechanisms of viral myocarditis: Role of the cytosolic DNA-sensing pathway	292,940 (declined after receiving the CIHR grant)
Luo, Honglin	2023-2028	CIHR (Project grant)	Innate inflammatory mechanisms of viral myocarditis: Role of the cytosolic DNA-sensing pathway	910,350

Luo, Honglin	2022-2027	NSERC (Discovery grant)	Autophagy mechanism of coronaviral infection: Lessons from enteroviruses	200,000
Luo, Honglin	2020-2025	CIHR (Project grant)	Enterovirus subversion of the autophagy pathway	734,400
MacAulay, Calum	2024-2026	BC Cancer Foundation Clinician Start up 2024	Artificial Intelligence Models to Predict Response and Survival in Advanced NSCLC Patients with PD-L1 $\geq$ 50% Receiving 1st-Line Pembrolizumab Monotherapy	277,000
MacAulay, Calum	2024-Present	The Terry Fox New Frontiers Program Project Grant (Partnered John Hecht Memorial Foundation)	The Terry Fox New Frontiers Program Project Grant in the Environment and Lung Cancer	2,400,000
MacAulay, Calum	2023-2028	CCS - Breakthrough Team Grant	Improving Detection of Early Lung Cancer in a diverse population (IDEAL)	5,400,000
MacAulay, Calum	2021-2025	CIHR	Devices for Image-Guided Biopsy of Peripheral Lung Nodule	386,326
MacAulay, Calum	2021-2026	CIHR	Prostate cancer risk stratification for active surveillance using computer-aided analysis of histopathology and transcriptomics	906,525
Mackenzie, Ian	2024-2026	ASRP	MicroRNA biomarkers: using tears to assess Alzheimer's Disease	100,000
Martin, Spencer	2023-Present	Lung Cancer Canada	The effect of high ambient air pollution exposure on lung age and EGFR mutations in never-smokers with lung cancer	50,000
Martin, Spencer	2022-Present	University of British Columbia, Resident Research Grant	Her2 expression in mesonephric-like adenocarcinoma: potential target for a deadly disease	3,000
Masud, Shazia	2020-Present	Genome BC	Characterizing SARS-CoV 2 antibody response among exposed health care workers (CARE)	250,000
Matic, Nancy	2020-Present	Providence Health Care Research Institute	Advancing real-time SARS-CoV-2 genomic analyses to enable rapid action in healthcare-related SARS-CoV-2 outbreaks	7,000
Matthews, Allison	2019-Present	BCCHRI- Childhood Disease Next Step Grant	Clinical Validation of Next Generation Sequencing	~25,000
McGinnis, Eric	2024-2026	Vancouver Coastal Health Research Institute	Refining diagnosis and risk stratification in acute myeloid leukemia using high-resolution optical genome mapping	75,000
McGinnis, Eric	2024-2026	Vancouver Coastal Health Research Institute	Rapid identification of actionable gene mutations in patients with relapsed or refractory acute myeloid leukemia using targeted long-read sequencing	75,000
McGinnis, Eric	2024-2026	Cancer Research Society	Improving risk stratification and diagnosis for patients with acute myeloid leukemia using high-resolution optical genome mapping	130,000
McGinnis, Eric	2023-2025	Blood Efficiency Accelerator Program Award 2022 Agency: Canadian Blood Services	Demonstration of genetic blood group transition in patients undergoing ABO-mismatched hematopoietic stem cell transplantation by peripheral blood quantitative polymerase chain reaction targeting the ABO locus	30,000
McGinnis, Eric	2023-Present	UBC Faculty of Medicine	Rapid targeted gene sequencing and high-resolution optical genome mapping to optimize selection of targeted therapies in acute myeloid leukemia	50,000
Minchinton, Andrew	2024-2028	Canadian Institute of Health Research (CIHR)	Development of clinical candidate hypoxia-activated DNA-PK inhibitors	979,200
Minchinton, Andrew	2023-2025	Pancreas Centre BC	Hypoxia in Pancreatic Cancers: Turning a Liability into a Therapeutic Benefit	100,000
Minchinton, Andrew	2022-2026	Canadian Institutes of Health Research (CIHR)	Metabolic manipulation of hypoxia for improved radiotherapy response	677,024
Minchinton, Andrew	2021-2025	Canadian Institutes of Health Research (CIHR)	FLASH radiotherapy - mechanisms and translational studies	918,000

Minor, Agata	2024-2024	Royal Columbian Hospital Foundation	Genexus Purification System	102,698
Minor, Agata	2024-2025	RCH Foundation	Molecular testing of lung cancers for patients of Fraser Health	200,000
Minor, Agata	2022-Present	RCH Foundation	Minlon Cytochrome P4502D6 Genotype research study	40,000
Morshed, Muhammad	1999-Present	Lyme Disease Association of Ontario	Study of Lyme disease in Ontario	36,000
Naso, Julia	2024-2025	UBC, New Faculty Research Award	Molecular Profiling of Non-Neoplastic Cells in Bronchoalveolar Lavage Fluid for Lung Cancer Risk Prediction	10,000 CDN
Naso, Julia	2024-2025	Bruker	Spatial Profiling of Anthracosis	30,000 CDN
Naso, Julia	2024-2026	VCHRI Innovation and Translational Research Award	Determining Origin of Squamous Cell Carcinomas	75,000 CDN
Nelson, Tanya	2023-Present	CIHR	The Genetics Update: Designing and evaluating a patient platform to deliver updated genomic results	170,000
Nelson, Tanya	2021-Present	BCCHRI	Clinical Validation of Next Generation Sequencing	25K
Nelson, Tanya	2021-Present	Dr. Donald B. Rix Pathology & Laboratory Medicine Research Grant	Assessing the feasibility of implementing non-invasive genetic diagnosis (NIPD) in the Division of Genome Diagnostics	49,862
Nielsen, Torsten	2024-2027	BC Cancer Foundation	Desmoplastic small round cell tumor	330,000
Nielsen, Torsten	2023-2028	CIHR	Translating Epigenomics into Clinical Care for Synovial Sarcoma	949,000
Nielsen, Torsten	2021-2026	Terry Fox Foundation / CIHR Marathon of Hope Cancer Centres Network	Enabling Precision Oncology of Sarcomas in Canada	796,000
Nielsen, Torsten	2018-2025	Terry Fox Research Institute	The Terry Fox New Frontiers Program in new vistas on cancer biology and treatment	6 million
Nielsen, Torsten	2016-2025	CIHR	Randomized Trial of Regional Radiotherapy in Luminal A Breast Cancer	4.9 million
notuse, do	1999-Present	"Lyme Disease Association of Ontario	"	"Study of Lyme disease in Ontario
Park, Yongjin	2024-2026	New Frontiers in Research Fund	Decoding cell fate regulatory networks through single cell omics and modelling approaches	250,000
Park, Yongjin	2024-Present	Canadian Institute of Health Research	CANSSI-CIHR Training Grant	
Park, Yongjin	2024-Present	Canada Research Chair	Research Stipend	20,000
Park, Yongjin	2023-Present	CIHR	Decoding the impact of single cell mutational processes in TNBC/HGSOC	
Park, Yongjin	2023-Present	CIHR	Glucose restriction-mediated metabolic adaptation as a driver of CD8+ T cell function	1,240,000
Park, Yongjin	2023-Present	Canada Research Chair Tier-2	Integrative Causality Inference of Cancer Mechanisms	600,000
Patel, Prital	2023-2025	National Health and Medical Research Council of Australia Ideas	A novel molecular test to determine if a pathogen is alive or dead - a tool to transform infectious disease management and reduce the threat of antimicrobial resistance	956,774
Perrone, Lucy	2024-2024	Oman Ministry of Health	Provision of external quality assessment training to Oman Central Public Health Lab	500,00

Perrone, Lucy	2024-2025	Canadian Institutes of Health Research	"Post-Validation Surveillance (POVAS) of Trachoma in Malawi, Africa: A Population and Global Health Services Study to Determine Disease Recrudescence and Evaluate Equity in Neglected Tropical Diseases."	250,000
Perrone, Lucy	2024-2027	New Frontiers in Research Fund - Exploration Stream, Government of Canada,	Implementing Drone Technology in Rural Indigenous Healthcare Systems: The Drone Transport Initiative.	199,780
Quandt, Jacqueline	2024-Present	UBC FOM Development Office - Philanthropic Support	Trainee support - biomarker development award	10,000
Quandt, Jacqueline	2023-Present	VGH and UBC Hospital Foundation	VGH & UBC Hospital Foundation's Most Urgent Needs Fund	29,000
Quandt, Jacqueline	2022-2025	UBC/Vancouver General Hospital Foundation	Characterizing novel pathways to drive neuroprotection and repair in MS V: Brain Campaign Initiative	345,000
Quandt, Jacqueline	2022-2027	CIHR Project Grant	"Targeting inflammatory and neurodegenerative pathways relevant to progression in the NR1H3 LXRα R415Q model of primary progressive multiple sclerosis"	906,526
Rakic, Bojana	2023-Present	BC Children's Hospital Department of Pathology & Laboratory Medicine	Pilot project to evaluate point of care testing in MSUD patients	2,500
Rakic, Bojana	2021-Present	CD Theme Seed Grant BC Children's Hospital Research Institute	Known and novel urinary biomarkers for the management of childhood autoimmune vasculitis.	30,000
Rakic, Bojana	2021-Present	Childhood Diseases Research Theme BC Children's Hospital Research Institute	Novel Mass Spectrometry Based Spatial-Omics: Investigation into the Micro-Environment of Pediatric Wilms Tumours	30,000
Rakic, Bojana	2020-Present	Ethics Application H19-02106	FAO T cell study Study approved by full board and request for Stage 2 resumption of research by BCCHR Institute was granted	
Rakic, Bojana	2018-Present	BCCHR BioBank	Investigating Tm-cell function in frozen peripheral blood mononuclear cells from BioBank samples-proof of concept experiments	5,000
Riazy, Maziar	2023-Present	CHIR	Evaluating the utility of adult-defined prognostic biomarkers: Are they appropriate in childhood onset primary chronic vasculitis?	290,700
Ritchie, Gordon	2021-Present	BC Ministry of Health COVID-19 Research Priorities	Advancing real-time SARS-CoV-2 genomic analyses to enable rapid action in healthcare-related SARS-CoV-2 outbreaks	7,000
Ritchie, Gordon	2020-Present	COVID-19 Immunology Task Force	"Integrating longitudinal epidemiologic, virologic and immunologic analyses to understand COVID-19 immunity and infection outcomes in long term care	1,200,000
Rosin, Miriam	2023-2026	NIH/NCI	CP-CTNet M4OC-Prevent: Metformin for oral cancer prevention. Continuation of Trial.	199,553 USD
Rosin, Miriam	2022-2026	NIH	Optimizing oral cancer screening and precision management of potentially malignant oral lesions	67,315 USD
Rosin, Miriam	1994-Present	Lohn Fund	Archival Tissue Bank for Breast Cancer Specimens	23,800
Roth, Andrew	2024-2026	Gynecologic Cancer Initiative	Mapping the evolution of resistance to cytotoxic and non-cytotoxic chemotherapies in high grade serous ovarian cancer	125,000 (of 125,000)
Roth, Andrew	2024-2027	Ovarian Cancer Canada - Cancer Research Society	HGSOC evolution under pressure of targeted therapy in the phase 2 NEOCATS trial	0 (of 600,000)

Roth, Andrew	2023-2025	US Department of Defense	Decoding and targeting genomic instability in pediatric osteosarcoma	0 of (438,500 USD)
Roth, Andrew	2023-2028	Canadian Institutes of Health Research	"Decoding the impact of single cell mutational processes on the drug fitness landscape of genomically unstable cancers Your Role: Co-applicant"	150,00 (of 1,450,000)
Roth, Andrew	2022-2026	Terry Fox Research Institute	Precision Oncology for Endometrial Carcinoma Patients	0 (of 2,200,000)
Roth, Andrew	2022-2027	Natural Sciences and Engineering Research Council of Canada	Computational methods for single cell biology	157,000 (of 157,000)
Roth, Andrew	2022-2027	Canadian Institutes of Health Research (CIHR)	Clonal interactions in myeloid malignancy	0 (of 1,025,100)
Roth, Andrew	2022-2028	Terry Fox Research Institute	Modeling lymphoma evolution and clinical trajectory using multiomics	1,239,000 (of 7,375,000)
Roth, Andrew	2021-2025	V Foundation for Cancer Research	Predicting Follicular Lymphoma Transformation from Tumour Architecture, Grant	200,000 USD (of 200,000 USD)
Roth, Andrew	2018-2026	BC Cancer, part of the Provincial Services Health Authority	Institutional Funding Support	300,000 (of 300,000)
Roth, Andrew	2018-2027	University of British Columbia (Faculty of Science)	Institutional support	75,000 (of 75,000)
Roth, Andrew	2018-2028	BC Cancer Foundation	Institutional Funding Support	300,000 (of 300,000)
Russell, Shannon	2023-2025	CIHR	"Canada-Africa Monkeypox Partnership (CAMP): Characterizing transmission dynamics and evaluating medical countermeasures to inform the clinical and public health response to MPX "	3,000,000
Wayne, Moore	2022-2025	Multiple Sclerosis Society of Canada (MS Canada)	"Multiple Sclerosis Pathogenesis: Egress of Plasma Constituents Through a Pathologic Blood-Cerebrospinal Fluid Barrier Causing Oligodendrocyte and Myelin Injury	295,917.36
Sabatini, Peter	2023-2025	DeGasperis Grand Challenge: Multiple Myeloma.	Clinical Development of Whole Genome Structural Variation Detection by Optical Genome Mapping.	400,000
Sadar, Marianne	2021-2026	NCI/NIH (USA)	Structure, function, and application of novel antagonists of the intrinsically disordered androgen receptor amino-terminal domain as imaging agents and therapeutics	US 2,139,345 (~Cdn 3,390,000)
Saeedi, Ramesh	2014-Present	"The Ontario Hiv Treatment Network	Predictive Value of Inflammatory Markers for Disease Progression in Untreated HIV Infection. A Substudy of CTN-240, the VALIDATE trial and CTN-238, the MAINTAIN trial	
Schaeffer, David	2023-2028	Canadian Cancer Society (CCS)	Casper-PANC: Canadian strategy for personalized management of pancreatic cancer	7,500,000
Schaeffer, David	2023-2030	VGH and UBC Hospital Foundation and Vancouver Coastal Health Research Institute (VCHRI)	Pancreatic Cancer Research Chair at Vancouver General Hospital	3,000,000
Schaeffer, David	2022-2027	Canadian Institute of Health Research (CIHR)	Mesenchymal progenitors in liver fibrosis - quiescence as a therapeutic target	1,070,000
Schaeffer, David	2022-2027	Canadian Institute of Health Research (CIHR)	Investigation of Neutrophil Extracellular Trap DNA (NET-DNA) induced signaling in the progression of Pancreatic Ductal Adenocarcinoma	956,250

Schaeffer, David	2021-2027	Canadian Institutes of Health Research (CIHR)	Circulating Tumour DNA Analysis Informing Adjuvant Chemotherapy in Stage III Colorectal Cancer: A Multicentre Phase II/III Randomised Controlled Trial (DYNAMIC-III)	1,426,724
Schutz, Peter	2022-Present	CIHR, Project Grant	Functional and Biological Determinants of Muscle Dysfunction Related to Spinal Degenerative Disease	1,065,000
Sekirov, Inna	2024-2028	VFoundation - Victory Over Cancer	"FOCAL MOMENTUM (MicroBiome Monitoring for Elimination of Cervical Cancer)	799,975 (USD)
Sekirov, Inna	2023-2027	CFI Biosciences Research Infrastructure Fund	BOLSTER-3-Pathogen Research: Building Operational Laboratory Strength To Enhance Risk 3 Pathogen Research	4,148,345
Sekirov, Inna	2021-2030	U.S. Department of Health and Human Services Tuberculosis Consortium Trials Services	Centers for Disease Control Tuberculosis Treatment Consortium	13,589,077 USD
Sekirov, Inna	2020-2025	Canadian Foundation for Innovation	Linking Transmission Metadata to Viral Genotype and Serological Response of COVID-19	620,000
Seow, Chun	2022-2028	CIHR	Mechanisms underlying the bronchodilatory effect of deep inspiration in health and asthma: from airway smooth muscle to the whole lung	680,850
Setiadi, Audi	2024-Present	BC Children's Hospital Foundation (awarded through the BCCH Department of Pathology and Lab Medicine)	Pilot Project for the Evaluation of Automated Plasma Cytokine Analysis for CAR-T related Cytokine Storm Syndromes	10,000
Shah, Sohrab	2024-2029	National Cancer Institute (NCI)	SPORE in Rectal Cancer (Project 2)	2,478,000
Shah, Sohrab	2024-2029	National Cancer Institute (NCI)	SPORE in Rectal Cancer (Core 2)	1,766,725
Shah, Sohrab	2024-2029	National Cancer Institute (NCI)	Evolutionary track of clonal genotypes and phenotypes in drug resistant ovarian cancer	4,424,990
Shah, Sohrab	2023-2025	Warren Alpert Foundation	Integrating clinical genome sequencing and digital pathology from 100,000 cancer patients	1,134,486
Shah, Sohrab	2023-2026	Susan G. Komen Breast Cancer Foundation	Structural variation and clonal evolution in breast cancer	600,000
Shah, Sohrab	2023-2026	New York Genome Center	Bayesian causal models of genetic and epigenetic drug resistance in cancer	464,331
Shah, Sohrab	2023-2027	National Cancer Institute (NCI)	Probabilistic Multiscale Modelling of the Tumor Microenvironment	3,414,475
Shah, Sohrab	2023-2028	National Institutes of Health (NIH)	Exploiting markers of genomic instability in high-risk pre-invasive ovarian cancer	4,113,705
Shah, Sohrab	2023-2028	National Cancer Institute (NCI)	Potential of Anti-Tumor Immunity by Oncolytic Virus in SITU Vaccination	3,188,521
Shah, Sohrab	2022-2025	Congressionally Directed Medical Research Programs	Dissecting Ovarian Cancer Tumor-Immune Microenvironments Through 3D In Situ Molecular Profiling	707,997
Shah, Sohrab	2022-2026	Congressionally Directed Medical Research Programs	Potent T cell engaging bispecific antibody (BsAb) for Ewings Family of Tumors	308,286
Shah, Sohrab	2022-2026	National Cancer Institute (NCI)	1 R01 CA258869-01 Molecular Interrogation of Exercise Effects on Endometrial Tissue Microenvironment	499,344
Shah, Sohrab	2022-2027	National Cancer Institute (NCI)	2 T32 CA160001-11A1 Translational Research in Oncology Training Program	1,613,015
Shah, Sohrab	2022-2027	National Cancer Institute (NCI)	1 R01 CA269382-01 Potentiation of Anti-Tumor Immunity by Oncolytic Virus in SITU Vaccination	341,705

Shah, Sohrab	2022-2027	SPORE in Prostate Cancer	(Project 1: Genomic Predictors of Clinical Outcomes and Response to Targeted Therapy in Advanced Prostate Cancer)	1,289,630
Shah, Sohrab	2022-2027	Break Through Cancer	Data Science Hub	4,544,011
Shah, Sohrab	2022-Present	National Cancer Institute (NCI)	1 P50 CA261658-01A1 SPORE in Rectal Cancer (Biostatistics & Bioinformatics Core)	12,266,341
Shah, Sohrab	2022-Present	Break Through Cancer	Ovarian Cancer (MRD)	3,442,223
Shah, Sohrab	2021-2026	National Cancer Institute	U24 CA264028-01 The MSK Genomic Data Analysis Center for Tumor Evolution	2,124,000 USD
Shah, Sohrab	2020-2025	New York Genome Center	Center for Integrated Cellular Analysis	493,900 USD
Shah, Sohrab	2020-2025	National Cancer Institute (NCI)	MSK SPORE in Genomic Instability in Breast Cancer (CORE 1 Bioinformatics and Biostatistics Data Analysis Core)	1,796,000
Sherwood, Karen	2024-2024	UBC Research Facility Support Grant	Upgrade to Biobank Freezers for BC Provincial Transplant BioBank for Immune Disease Research Cluster	41,500
Sherwood, Karen	2024-2026	VCHRI 2024 Innovation and Translational Research Award	Clinical FlowPRT - Detecting HLA specific T cells using single antigen beads	75,000
Sherwood, Karen	2024-2027	Genome Canada, Genome BC, MSHRBC, VCHRI, others	A National prospective epitope- compatibility matching program for Canadian renal transplant patients	5,823,737
Sherwood, Karen	2023-2025	CDTRP -Canadian Donation and Transplantation Research Programme -Innovation Grant Competition 2023	Accelerating the Translation of a Novel Luminex Anti-ABO Antibody Detection Technology to Expand the Use of ABO-incompatible Transplantation in Canada	30,000
Sherwood, Karen	2023-2025	National Kidney Foundation of Canada	Multimomic characterization of chronic, active T cell- mediated rejection in pediatric kidney transplant recipients	120,000
Sherwood, Karen	2023-2028	Michael Cuccione Foundation	Shaping the Future of immune Therapies - CAR-T	10.5 Million
Sherwood, Karen	2018-2025	Genome Canada	Large-scale Applied Research Project in Precision Health: Precision Medicine CanPREVENT Antibody-Mediated Rejection and Premature Kidney Transplant Loss	10.8 million
Shih, Andrew	2019-Present	University of British Columbia Division of Hematopathology Resident Research Grant	Determining Coagulopathy through ROTEM Coagulation Testing in Liver Disease	5,000
Shih, Andrew	2019-Present	University of British Columbia Division of Hematopathology Resident Research Grant	Frequency of Positive Antibody Screens on patients with Serial Group and Screens Every 3 Days (PASSeS 3D Study)	5,000
Sinclair, Graham	2024-2025	BC Children's Hospital Research Institute Dragon's Den	"Characterizing the biochemical profile of the Synapse in children with secondary neurotransmitter disorders: A novel targeted metabolomics study"	5,000
Sinclair, Graham	2024-2028	Genome British Columbia Sector Innovation Program	"Prenatal Exposure to Wildfire Disasters and their Association with Early Childhood Health, Development, Epigenomics, and Inflammation"	500,000
Sinclair, Graham	2023-2025	CIHR	"Prenatal Exposure to Wildfire Disasters and the association with early childhood health, development, and epigenetics"	100,000
Sinclair, Graham	2022-2025	Donald B. Rix Pathology and Laboratory Medicine Research Fund (BC Children's Hospital Foundation)	Impact of CPOE on Paediatric Laboratory Medicine Provision	50,000
Sorensen, Poul	2024-2025	Sarcoma Foundation of America	Functional validation and targeting of ENPP1 in Ewing sarcoma	USD 40,000 out of USD 50,000
Sorensen, Poul	2024-2026	Team Jack Foundation	Deciphering eEF2K biological functions for therapeutic targeting of pediatric medulloblastoma	USD 290,000

Sorensen, Poul	2024-2026	St.Baldrick's Foundation	Better Ewing Sarcoma Treatment	USD 438,000 out of USD 500,000
Sorensen, Poul	2024-2026	Rally Foundation	Immunotherapeutic targeting of IL1RAP in rare pediatric cancers	USD 100,000
Sorensen, Poul	2024-2026	The Leukemia & Lymphoma Society of Canada	Immunotherapeutic targeting of IL1RAP in pediatric ALCL and AML	150,372 out of 200,000
Sorensen, Poul	2024-2026	Osteosarcoma Institute	G-quadruplex binders as a promising therapeutic strategy in metastatic osteosarcoma	USD 100,000
Sorensen, Poul	2024-2026	Alex's Lemonade Stand Foundation	Investigating mechanistic roles of a novel oncofusion-driven transcript isoform in Ewing sarcoma	USD 250,000
Sorensen, Poul	2024-2027	Mitacs	Understanding and targeting stress-related pathways in sarcoma	440,000 out of 706,666
Sorensen, Poul	2024-2027	BC Cancer Foundation	ReCon - Targeting Drivers of Lethal Glioma Brain Tumors	123,000 out of 1,200,000
Sorensen, Poul	2024-2029	Canadian Institutes of Health Research (CIHR)	Targeting metabolic vulnerabilities in childhood cancers using immunotherapy	781,249 out of 956,250
Sorensen, Poul	2023-2025	Osteosarcoma Institute	Harnessing the osteosarcoma surfaceome for immunotherapy targets to block metastatic capacity	USD 248,534 out of USD 500,000
Sorensen, Poul	2023-2025	United States Department of Defense	Decoding and targeting genomic instability in pediatric osteosarcoma	USD 440,000
Sorensen, Poul	2023-2025	Canadian Institutes of Health Research (CIHR)	CPCC TM 1 - Cancer Biology: Sarcoma MetAstasis Research Taskforce, SMART Project	163,916 out of 800,000
Sorensen, Poul	2023-2026	St.Baldrick's Foundation - PCDT	Circumventing Ewing Sarcoma Antigen Heterogeneity by IL1RAP and B7-H3 Dual-Targeting Bispecific Antibody Drug Conjugates	USD 100,000 out of USD 200,000
Sorensen, Poul	2023-2027	Terry Fox Research Institute (TFRI)	The Spatial Metabolome Hubble Project to Decipher Tumor-Driven Immunosuppression (MetaboHUB)	337,050 out of 2,000,000
Sorensen, Poul	2022-2026	Alex's Lemonade Stand Foundation	Defining and exploiting novel vulnerabilities for the treatment of metastatic osteosarcoma	USD 870,000 out of USD 3,100,000
Sorensen, Poul	2022-2026	St. Baldrick's Foundation - EPICC	PCDTv3.0: Translating New Immune Therapies for High-Risk Pediatric Cancers	USD 267,000 out of USD 400,000
Sorensen, Poul	2022-2028	Terry Fox Research Institute (TFRI)	The Terry Fox New Frontiers Program Project Grant in Targeting Tumour Plasticity in Advanced Prostate Cancer	0 out of 6,000,000
Sorensen, Poul	2022-2028	Terry Fox Research Institute (TFRI)	The Terry Fox New Frontiers Program Project Grant in Targeting Tumour Plasticity in Advanced Prostate Cancer	6,000,000
Sorensen, Poul	2021-2025	BC Children's Hospital Foundation	IL1RAP radioconjugates in Ewing sarcoma	238,939 out of 366,939
Sorensen, Poul	2018-2025	Terry Fox Research Institute (TFRI)	The Terry Fox New Frontiers Program Project Grant in New Vistas on Cancer Biology and Treatment: Conceptual Advancements from the Forme Fruste Project	1,045,669 out of 6,012,984
Sorensen, Poul	2015-2025	Canadian Institutes of Health Research (CIHR)	Targeting the tumour cell stress response in high-risk childhood cancers (2014 Foundation Grant)	2,335,402
Sorensen, Poul	2010-Present	BC Cancer Foundation	Targeting Metastatic Disease in High Risk Childhood Cancer	3,498,857
Steidl, Christian	2024-2026	Canadian Cancer Society	The cellular ecosystem of mediastinal gray zone lymphoma	524,907
Steidl, Christian	2024-2029	Canadian Institutes of Health Research	Cytokine receptor common beta chain alterations in mediastinal lymphomas	1,048,050

Steidl, Christian	2023-2025	Leukemia and Lymphoma Society of Canada	Stromal cell interactions in Hodgkin lymphoma	200,000
Steidl, Christian	2023-2025	Cancer Research Society	Functional characterization of TMEM30A loss-of-function mutations in DLBCL	125,000
Steidl, Christian	2022-2025	Leukemia and Lymphoma Society (US): Translational Research Program	Targeting aberrant non-canonical NF- κ B pathway activation in B-cell lymphomas	750,000 (USD)
Steidl, Christian	2022-2025	Lymphoma Research Foundation	Four-dimensional characterization of follicular lymphoma to predict clinical trajectory	750,000 USD
Steidl, Christian	2022-2027	Canadian Institutes of Health Research	Development of second-generation radiopharmaceuticals targeting the C-X-C chemokine receptor 4 for imaging and therapy of hematological cancers	860,626
Steidl, Christian	2022-2028	Terry Fox Research Institute	Modeling lymphoma evolution and clinical trajectory using multiomics	6,000,000
Steidl, Christian	2021-2026	Canada Foundation for Innovation-The ExCELLirate Canada	ExCELLirate Canada: Expanding CELL-based Immunotherapy Research Acceleration for Translation and Evaluation	5,187,685
Steidl, Christian	2021-2026	Canadian Foundation for Innovation	Cancer single cell dynamics observatory	5,992,026
Steidl, Christian	2021-2026	Canadian Institute of Health Research (CIHR)	Somatic mutations in the JAK-STAT and IRF signaling pathways in Non-Hodgkin lymphoma	1,120,725
Steidl, Christian	2020-2025	Canadian Institutes of Health Research (CIHR)	Mechanisms of B cell-mediated immunity in human cancer	1,193,400
Takei, Fumio	2023-2028	Canada Institute of Health Research	Innate lymphoid cells in hepatitis and liver fibrosis	1,065,000
Takei, Fumio	2020-2025	CIHR	Tissue resident and migratory group 2 innate lymphoid cells in health and disease	156,825
TakShengYan, Matthew	2021-Present	Canadian Institutes of Health Research	Four-Factor Prothrombin Complex Concentrate Versus Frozen Plasma in Bleeding Adult Cardiac Surgical Patients: A multicentre randomized controlled trial (FARES-II)	1,415,000
Turley, Elona	2023-Present	Kaye Fund Competition, UHF	Northern Alberta Viscoelastic-Informed Guidance in Acute Trauma: Evaluation (NAVIGATE)	104,491
Uzozie, Añuli	2024-2024	Research Centre Engage Fund, Langara College (Main applicant)		
Venturutti, Leandro	2024-2026	U.S. Department of Defense (DoD)	Developing first-in-kind preclinical models of primary testicular lymphoma.	136,000
Venturutti, Leandro	2024-2026	Lupus Research Alliance	Defining the determinants of Lupus progression and cancerous transformation	400,000
Venturutti, Leandro	2023-2028	Canadian Cancer Society (CCS)	Predicting and targeting extranodal presentation in aggressive B-cell lymphomas.	550,000
Venturutti, Leandro	2022-2025	Leukemia and Lymphoma Society (USA) & Leukemia and Lymphoma Society (Canada)	Targeting aberrant non-canonical NF- κ B pathway activation in B-cell lymphomas.	1,000,000
Venturutti, Leandro	2022-2027	Canadian Institutes of Health Research (CIHR)	Self-Reactivity as a Driver of Extranodal Diffuse Large B-Cell Lymphoma Transformation and Progression.	1,139,850
Vercauteren, Suzanne	2020-2025	CIHR	Canadian Collaboration for Child Health: Efficiency and Excellence in the Ethics Review of Research (CHEER)	2,491,470
Verchere, Bruce	2024-2026	Breakthrough T1D	Breakthrough T1D Centre of Excellence at UBC: Project 2.3: Lipid nanoparticle (LNP) mRNA tolerizing immunotherapy for T1D	330,000
Verchere, Bruce	2024-2026	Breakthrough T1D	Breakthrough T1D Centre of Excellence at UBC: Administration Core	~500,000

Verchere, Bruce	2024-Present	CIHR	Islet macrophages: regulators of beta cell function in health and diabetes	190,485
Verchere, Bruce	2023-2025	Stem Cell Network	Genetic engineering of hESC-derived insulin-producing cells to improve graft outcomes in type 1 diabetes	600,000
Verchere, Bruce	2023-2025	Diabetes Canada	Islet prohormone processing and beta cell dysfunction in type 1 diabetes	100,000
Verchere, Bruce	2023-2025	Stem Cell Network	Genetic manipulation of hES-derived insulin producing cells to improve graft outcomes	94,500
Verchere, Bruce	2023-2028	CIHR-JDRF Team Grants: Precision Medicine in Type 1 Diabetes	Leveraging biological sex and genetics for beta cell-directed precision medicine in type 1 diabetes	750,000
Verchere, Bruce	2022-2027	CIHR Team Grant: Diabetes Mechanisms and Translational Solutions	Immunometabolism in diabetes: harnessing metabolic crosstalk between islets and immune cells for therapy	400,000
Verchere, Bruce	2021-2026	CIHR-JDRF - Accelerating Stem Cell-Based Therapies for Type 1 Diabetes Team Grant	Generation of a functionally robust stem cell-based therapy for type 1 diabetes	6,000,000
Verchere, Bruce	2020-2025	Canadian Institute of Health Research	Islet macrophages: regulators of beta cell function in health and diabetes	952,426
Wale, Martin	2013-Present	Genome Canada	Proteomic Markers for Rapid Stroke Classification and Intervention	9.7m
Wang, Gang	2024-2026	Genome British Columbia	Discovery and validation of urinary metabolic biomarker for early-stage bladder cancer diagnosis.	300,000
Wang, Gang	2024-2027	Canadian Institutes of Health Research	Artificial intelligence-driven computational pathology platform for bladder cancer subtyping (REACT)	1,200,000
Wang, Gang	2024-2029	Michael Smith Health Research British Columbia	Toward an IHC model for molecular subtyping and predicting of treatment response in bladder cancer	450,000
Wang, Gang	2023-2025	Canadian Cancer Society	Toward an immunohistochemical model for molecular subtyping and predicting of treatment response in bladder cancer.	125,000
Wang, Gang	2023-2025	Government of Canada	Cell-Based Medical Diagnostic Testing on a Smartphone for Low-Resource Communities	250,000
Wang, Gang	2020-Present	AP residency program	Genotyping "Unclassified" Renal Cell Carcinoma	3,000
Wang, Li	2024-2025	BC Children's and Women's Hospital Medical & Allied Staff Engagement Society (MASES)	Multidisciplinary approach to choose blood gas instruments at BC Children's and Women's Hospital	1,000
Wang, Li	2024-2027	Canadian Donation and Transplantation Research Program (CDTRP) Research Innovation Grant	Cytokine and metabolomic urinary diagnostics to predict and monitor treatment responsiveness of acute rejection in kidney transplantation	30,000
Wang, Li	2023-2026	CIHR	A pilot clinical trial to evaluate the feasibility and acceptability of: A prospective, unblinded, randomized-controlled, multicenter biomarker intervention trial of a urinary CXCL10 clinical surveillance program in pediatric kidney transplant recipients for early ascertainment and treatment of subclinical allograft inflammation and preservation of kidney transplant function.	401,625
Wang, Yemin	2024-Present	Canadian Institutes of Health Research	DICER1 tumour predisposition syndrome: dissecting the oncogenic mechanisms with a novel lineage-trackable genetically engineered mouse model	1,120,726
Wang, Yemin	2024-Present	Canadian Institutes of Health Research	p300 histone acetyltransferase-dependency in SWI/SNF-deficient cancers: mechanisms and therapeutic implications	1,116,900

Wang, Yemin	2022-Present	Terry Fox Research Institute	Precision Oncology for Endometrial cancer	2,500,000
Wang, Yemin	2021-2025	Canadian Institute of Health Research	Exploit the metabolic vulnerabilities in SWI/ SNF-deficient cancer	688,501
Wang, Ying	2024-2026	Mitacs-Accelerate	"Finding blood biomarkers to inform local inflammation in coronary artery disease	120,000 in total
Wang, Ying	2024-2027	Heart and Stroke Foundation Grant-in-Aid	Characterizing the inflammatory pathways targeted by colchicine to better repurpose drugs for coronary artery disease	100,000 per year
Wang, Ying	2024-2029	NSERC Discovery Grant	Cell-cell and cell-microenvironment interactions maintain tissue homeostasis of the cardiovascular system	38,000 per year
Wang, Ying	2022-2028	Canadian Institutes of Health Research	Targeting efferocytosis to reduce risk of cardiovascular events	163,600 per year
Watson, Peter	2024-2026	TFRI-MOHCCN	Deciphering heterogeneity of rare metaplastic breast carcinoma	125,000
Watson, Peter	2024-2026	Canadian Glycomics Network Team Grant	Modulating Immune Cell Glycosylation as a Strategy to Improve the Anti- Tumor Response	90,000
Watson, Peter	2024-2026	BC Cancer	Predicting upgrades from non-invasive core biopsy specimens to invasive ductal carcinoma in surgical specimens using histology-based DNA organization analysis	150,000
Watson, Peter	2024-2027	UBC Eminence Clusters of Research Excellence	Predictive Radiation Oncology	130,000
Watson, Peter	2023-2025	TFRI	Canadian Tissue Repository Network (CTRNet)	100,000
Watson, Peter	2023-2026	TFRI-MOHCCN	Integrated genomics and spatial heterogeneity to enhance personalized therapies for rare metaplastic breast carcinomas	78,000
Wellington, Cheryl	2024-2026	Brain Canada	"Improving the detection of brain injury in intimate partner violence patients Co-investigator : Aimee Falkenberg; Hannah Varto; Paul van Donkelaar;"	40,000 (Canadian dollar)
Wellington, Cheryl	2024-2026	Heart and Stroke Foundation of Canada (HSFC)	"Characterization of cerebral blood flow and neurological injury in severe acute respiratory distress syndrome and the implications of veno-venous extracorporeal membrane oxygenation"	260,000
Wellington, Cheryl	2024-2027	Canadian Institutes of Health Research (CIHR)	"Healthy Sleep to Promote Resistance and Resilience to Alzheimer's Disease Related Brain Changes: An Integrated Wearable EEG, Genomic, MR Imaging, and Plasma Biomarker Study of Over 2600 Participants in the Canadian Longitudinal Study of Aging"	1,060,394
Wellington, Cheryl	2024-2028	Department of Defense (USA)	Using blood biomarkers to improve diagnosis of brain injury and assess dementia risk in survivors of intimate partner violence	2,498,560 (US)
Wellington, Cheryl	2024-2029	Canada Foundation for Innovation	Facility for Neurology Biomarker Innovation	1,608,253 CAD
Wellington, Cheryl	2024-2029	Heart and Stroke Foundation of Canada (HSFC)	Lifespan Brain Health Trajectories in Congenital Heart Disease: the role of sex & gender	1,750,000 (Canadian dollar)
Wellington, Cheryl	2023-2026	Heart and Stroke Foundation of BC & Yukon	"The role of interleukin-1 beta and the NLRP3 inflammasome in secondary cerebral injury in humans with hypoxic ischemic brain injury after cardiac arrest"	261,000 (Canadian dollar)
Wellington, Cheryl	2023-2026	Ontario Brain Institute	"TRANSCENDENT - Transforming research by assessing neuroinformatics across the spectrum of concussion by embedding interdisciplinary Data-collection to Enable Novel Treatments"	5,336,276

Wellington, Cheryl	2023-2027	Canadian Institutes of Health Research (CIHR)	Using translational biomarkers to define whether plane of motion and complexity of head kinematics modifies biomarker and neuropathological responses to concussion in mice and humans	1,293,201 (CAD)
Wellington, Cheryl	2023-2027	National Institutes of Health (NIH) (USA)	Analytical characterization and validation of blood-biomarkers for monitoring TBI evolution	6,240,133 (US)
Wellington, Cheryl	2022-2025	Heart and Stroke Foundation of BC & Yukon (The) Grant in Aid	SEARCH - Stroke and vAscular Risk factors contributing to neuroCognitive decline in adult congenital Heart disease	300,000 (CAD)
Wellington, Cheryl	2022-2025	United States Department of Defence. Congressionally Directed Medical Research Programs, Spinal Cord Injury	"Serum Biomarkers for Classifying Injury Severity and Predicting Outcome After Acute Spinal Cord Injury"	1,890,012 (US)
Wellington, Cheryl	2022-2025	Heart and Stroke Foundation of Canada (HSFC) Grant in Aid	Using bioengineered cerebral vessels to understand the contributions of brain and peripheral apolipoprotein E on vascular contributions to Alzheimer's Disease	291,488 (CAD)
Wellington, Cheryl	2022-2026	Canadian Institutes of Health Research (CIHR)	Impact of blood transfusion on cerebral blood flow regulation in experimental and pathological brain hypoxia in humans	321,300
Wellington, Cheryl	2022-2027	Canadian Institutes of Health Research (CIHR) Project Grant	Traumatic brain injury and cerebral small vessel disease in a vulnerably housed cohort, a prelude to early neurodegeneration and dementia	1,434,376 (CAD)
Wellington, Cheryl	2021-2025	CIHR	"Evaluating the potential of blood biomarkers to improve Alzheimer's Disease risk stratification"	1,503,224
Wellington, Cheryl	2020-2025	Canadian Institutes of Health Research (CIHR) Network Catalyst	Canadian Concussion Network	1,000,000
Weng, Andrew	2024-2027	BC Cancer Foundation (Emerging Multi-Disciplinary Research Program Award)	Metagenomics, metabolomics and immune profiling in melanoma: An integrative analysis platform for patients receiving immunotherapy	1,200,000
Weng, Andrew	2024-2027	CIHR-TRANSCAN-3 Joint Transnational Call (JTC)	Unveiling the Epigenetic Landscape and Therapeutic Implications of Epigenetic Modifiers in Human T-cell Leukemia Initiation and Progression	448,770
Weng, Andrew	2024-2029	Terry Fox Research Institute (Terry Fox Foundation)	Project 2: Epigenetic regulation of leukemia drivers at the T/myeloid interface. Core 1: Cell accrual and analysis protocols.	2,075,000
Weng, Andrew	2022-2028	Terry Fox Research Institute (Terry Fox Foundation)	PI of Project 1: Phenotypic diversity as a guide to mechanisms underlying transformation in follicular lymphoma.	1,301,457
Wong, Titus	2022-Present	Teck, UBC & VGH Foundation	Long Term Care Copper Project	600,000
Wong, Titus	2021-Present	LGH Foundation, Teck	Lions Gate Hospital Acute Care Tower Infection Prevention Innovation	500,000
Wong, Titus	2020-Present	BC Ministry of Health, Teck, Vancouver Coastal Health, Huscroft Foundation, Chan Better World Foundation, LGH Foundation, UBC & VGH Foundation	BC / VCH Personal Protective Equipment Testing Laboratory	1,000,000+
Wong, Titus	2020-Present	BC Ministry of Health	UBC Infection Control Certificate Course	1,000,000+
Wright, Joanne	2011-Present	CIHR	The role of gender in COPD	140,000/yr
Yang, Hui-Min	2020-Present	Vancouver General Hospital, Department of Pathology and Laboratory Medicine, Residency Research Fund	Molecular Characterization of a case of Adenoid Cystic Carcinoma of the Esophagus: Case Report and Literature Review	3,000

Yang, Hui-Min	2015-Present	Columbia University Medical Center, Department of Pathology and Cell Biology Intradepartmental Research Grant	GATA3 Immunohistochemistry in Adenocarcinoma of the Ampullary Region	6,500
Yip, Stephen	2023-2025	New Frontiers in Research Fund (Government of Canada)	Personalized medicine for primary bone tumors of the spine	248,810
Yip, Stephen	2023-2026	Genome Canada	Genomic Applications Partnership Program: "Parent-of-Origin-Aware genomic analysis"	2,000,000
Yip, Stephen	2023-2026	Michael Smith Health Research BC	2022 Health Professional- Investigator Program - "Accelerating Comprehensive Diagnosis of Glioma patients in BC - the long and short of it"	450,000
Yip, Stephen	2023-2026	The Terry Fox Research Institute	The Pan-Canadian Lower-grade Glioma (MOH-PCLG) project: Enabling biomarker-driven treatment options for relapsed IDH-mutant gliomas	897,000
Yip, Stephen	2023-2028	CIHR	Fate and function of MPs within the MB tumour microenvironment (Project grant - CPT)	1,100,000
Yip, Stephen	2023-2028	Canadian Cancer Society	Establishing a non-invasive approach to accurately diagnose and assess brain tumours	4,515,770
Zhang, Allen	2024-2026	Carreresi Foundation (through the VGH & UBC Hospital Foundation)	2024 GCI Gynecologic Cancer Research Awards	25,210
Zlosnik, James	2024-Present	Genome Canada	Surveillance Alert for Fast Epidemiology Genomics and Unified Agile Response to Disease (SAFEGUARD) against respiratory viruses using wastewater surveillance	6,056,973

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Source: Faculty Activity Database (FAD)

Airo, Adriana	AC Blanchard, S Zahradnik, S Isabel, K Mehta, M Ali, A Airo, L Streitenberger, R Freeman, Y Yau, A Campigotto, M Tadros, M Science. Epidemiology of carbapenemase-producing Enterobacterales carriage in a paediatric tertiary health care centre of Ontario, Canada. <i>Journal of the Association of Medical Microbiology and Infectious Disease Canada</i> 2024 9:2, 104-107
Alaghehbandan, Reza	Wang XM, Mannan R, Zhang Y, Chinnaiyan A, Rangaswamy R, Chugh S, Su F, Cao X, Wang R, Skala SL, Hafez KS, Vaishampayan U, Mckenney J, Picken MM, Gupta S, Alaghehbandan R, Tretiakova M, Argani P, Chinnaiyan AM, Dhanasekaran SM, Mehra R. Hybrid Oncocytic Tumors (HOTs) in Birt-Hogg-Dubé Syndrome Patients-A Tale of Two Cities: Sequencing Analysis Reveals Dual Lineage Markers Capturing the 2 Cellular Populations of HOT. <i>Am J Surg Pathol</i> . 2024 Feb 1;48(2):163-173. doi: 10.1097/PAS.0000000000002152. Epub 2023 Nov 24. PMID: 37994665; PMCID: PMC10871670.
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