



THE UNIVERSITY OF BRITISH COLUMBIA

Precision Medicine in Transplantation  
Research Excellence Cluster



## Precision Tx -Symposium

**December 12-13, 2022, Vancouver, B.C., Canada**

**Gordon and Leslie Diamond Health Care Centre, 2775 Laurel Street, Vancouver BC V5Z 1M9.**

All symposium sessions are in the Auditorium 1-020 at the entrance level.

All coffee breaks and lunches are in rooms DHCC 2263 & 2264 (2<sup>nd</sup> floor, please use the staircase #3 inside the auditorium).

**Please wear a mask while on hospital premises.**

Please use [this link](#) to register for **virtual participation in the symposium.**

For **in-person participation**, contact [precision.transplantation@ubc.ca](mailto:precision.transplantation@ubc.ca)

### FINAL AGENDA

#### Monday, December 12, 2022

Registration opens		8.30
<b>Opening session</b>		<b>9.00- 9.45</b>
<b>Session 1</b>	<b>Precision Medicine</b>	<b>9.45-10.50</b>
Morning coffee break		10.50-11.15
<b>Session 2</b>	<b>Graft Bioengineering</b>	<b>11.15-12.45</b>
Lunch		12.45-13.45
<b>Session 3</b>	<b>Stem Cell Transplantation</b>	<b>13.45-15.20</b>
Afternoon break		15.20-15.50
<b>Session 4</b>	<b>Societal Perspective</b>	<b>15.50-17.15</b>
End of Day 1		

#### Tuesday, December 13, 2022

Arrival		8.30
<b>Session 5</b>	<b>Immune Monitoring</b>	<b>9.00-10.35</b>
Morning coffee break		10.35-11.00
<b>Session 6</b>	<b>Personalized Therapeutics</b>	<b>11.00-12.35</b>
Lunch		12.35-13.30
<b>Session 7</b>	<b>Advanced Technology and Computational Biology</b>	<b>13.30-15.05</b>
Afternoon break		15.05-15.30
<b>Closing Session</b>		<b>15.30-16.30</b>
End of Symposium		

We acknowledge the support of our funding agencies and industry sponsors:



THE UNIVERSITY OF BRITISH COLUMBIA  
Precision Medicine in Transplantation  
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GenomeCanada



# PTx FINAL AGENDA DAY 1

Monday, December 12, 2022

8.30	Registration opens	Outside the Auditorium
9.00-9.45	Opening session	Auditorium
9.00-9.15	<b>Welcome address – Karen Sherwood, VCH, GCTC, UBC Precision Medicine in Transplantation Cluster</b>	
9.15-9.45	<b>Keynote – Philip O’Connell, Westmead Institute for Medical Research, Australia: Predictive biomarkers to facilitate personalised management of transplant care</b>	
9.45-10.50	<b>Session 1</b>	<b>Precision Medicine</b> <b>Sponsored by One Lambda A Thermo Fisher Scientific Brand</b> <b>Moderated by Jenny Tran, VCH</b> <b>Mentor Anne Halpin, University of Alberta</b> Auditorium
9.45-10.15	<b>Karen Sherwood, VCH, GCTC, UBC Precision Medicine in Transplantation Cluster</b> ○ How to build Clusters of Excellence for Effective Innovation in Transplantation	
10.15-10.45	<b>Matthias Niemann, Pirche AG, Germany (VIRTUAL)</b> ○ Allele-specific solvent accessible amino acid mismatches are correlated with immunizer-specific HLA antibodies after kidney transplantation or pregnancy	
10.45-10.50	<b>Industry Spotlight: One Lambda A Thermo Fisher Scientific Brand</b> ○ Stacey Abidayo	
10.50-11.15	Morning coffee break	2 <sup>nd</sup> floor rooms DHCC 2263 & 2264
11.15-12.45	<b>Session 2</b>	<b>Graft Bioengineering</b> <b>Moderated by Julie Wong, UBC</b> <b>Mentor Tom Blydt-Hansen, UBC</b> Auditorium
11.15-11.45	<b>Giuseppe Orlando, Wake Forest University, USA (VIRTUAL)</b> ○ Organ Transplantation, Bioengineering, Regeneration, Repair and Preservation: The Words May Change, but the Substance Remains the Same	
11.45-12.15	<b>Rabindra Bhattacharjee, Western University, Canada</b> ○ Preservation and protection of human kidneys at room temperature through oxygenated machine perfusion with repositioned drug	
12.15-12.45	<b>John Coleman, Avivo Biomedical Inc., Canada</b> ○ Converting organ blood-type to enable ABOi transplants with deceased donor organs	
12.45-13.45	Lunch	2 <sup>nd</sup> floor rooms DHCC 2263 & 2264
13.45-15.20	<b>Session 3</b>	<b>Stem Cell Transplantation</b> <b>Sponsored by TwinStrand Biosciences</b> <b>Moderated by Karen Sherwood, VCH</b> <b>Mentor Michael Barnett, UBC</b> Auditorium
13.45-14.15	<b>Clint Valentine, TwinStrand Biosciences, USA</b> ○ Duplex Sequencing for ultra low frequency MRD detection in AML	
14.15-14.45	<b>Florian Kuchenbauer, BC Cancer Research, Canada</b> ○ Steering new directions for the treatment of AML	
14.45-15.15	<b>Thomas Nevill, VGH, UBC, Canada</b> ○ Optimizing Outcome in Unrelated Donor Stem Cell Collection Through Improved Donor Selection	
15.15-15.20	<b>Industry Spotlight: TwinStrand Biosciences</b> ○ Clint Valentine	

15.20-15.50 Afternoon coffee break 2<sup>nd</sup> floor rooms DHCC 2263 & 2264

**15.50-17.15 Session 4 Societal Perspective** Auditorium  
**Moderated by Colene Bentley, BC Cancer, ARCC**  
**Mentor John Gill, Providence Health**

- 15.50-16.20 Louisa Edwards, UBC, VCHRI, Canada**
- Epitope Compatibility to Guide Deceased Donor Kidney Allocation: Recommendations from a Pan-Canadian Online Public Deliberation
- 16.20-16.30 Teresa Atkinson, Transplant patient, Canada (VIRTUAL)**
- Hope
- 16.30-16.45 Anne Halpin, Organ donor, (Nephrologist) Canada**
- Donor perspective
- 16.45-17.15 Tania Bubela, SFU, Canada**
- Social sciences convergence with translational precision medicine

End of Day 1

## PTx FINAL AGENDA DAY 2

Tuesday, December 13, 2022

8.30 Arrival Auditorium

**9.00-10.35 Session 5 Immune Monitoring** Auditorium  
**Moderated by Ramon Klein Geltink, UBC / BCCHR**  
**Mentor Laura Sly, UBC**

- 9.00-9.30 Melina Messing, UBC, Canada**
- Prognostic peripheral blood biomarkers at ICU admission predict COVID-19 clinical outcomes
- 9.30-10.00 David Harriman, UBC, Canada**
- Is the Urinary Microbiome an Innocent Bystander or Active Participant in Kidney Allograft Dysfunction?
- 10.00-10.30 Xuehai Wang, UBC, Canada**
- Single-cell profiling reveals a memory B cell-like subtype of follicular lymphoma with increased transformation risk
- 10.30-10.35 Industry Spotlight: Stemcell Technologies Inc.**
- Cassielle Dent

10.35-11.00 Morning coffee break 2<sup>nd</sup> floor rooms DHCC 2263 & 2264  
Sponsored by Stemcell Technologies Inc.

**11.00-12.35 Session 6 Personalized Therapeutics** Auditorium  
**Sponsored by Omixon Ltd**  
**Moderated by Franz Fenninger, UBC**  
**Mentor Karen Sherwood, VGH**

- 11.00-11.30 Chris Blosser, University of Washington, USA**
- DETECT - Opportunity for Precision Diagnostics in Cancer & Transplant to Guide Personalized Medicine
- 11.30-12.00 Ali Zarrinpar, University of Florida, USA**
- Phenotypic Personalized Medicine in Transplantation
- 12.00-12.30 Klemens Budde, Charité, Germany (VIRTUAL)**
- Personalized immunosuppressive treatment
- 12.30-12.35 Industry Spotlight: Omixon Ltd**
- Dr. Attila Bérces, Founder & CEO

12.35-13.30 Lunch 2<sup>nd</sup> floor rooms DHCC 2263 & 2264

**13.30-15.05 Session 7 Advanced Technology and Computational Biology Auditorium**  
**Sponsored by Oxford Nanopore**  
**Moderated by Amanda Cunningham, UBC**  
**Mentor Michael Barnett, UBC**

- 13.30-14.00 Ryan Brinkman**, BC Cancer Research, Canada
- Automated flow cytometry data analysis that works - now and next year
- 14.00-14.30 Phillip Richmond**, BC Children's Hospital Research Institute, Canada
- BC Children's Precision Health Initiative
- 14.30-15.00 Amrit Singh**, UBC, Canada
- Multimodal data integration for deriving insights into transplant rejection
- 15.00-15.05 Industry Spotlight: Oxford Nanopore**
- Frédérique Lerêteux

15.05-15.30 Afternoon coffee break 2<sup>nd</sup> floor rooms DHCC 2263 & 2264

- 15.30-16.30 Closing Session Auditorium**
- **Robert Liwski**, Dalhousie University, Canada
    - Refining HLA antibody assignment using adsorption with XM cells and elution AXE protocol
  - **Panel: Future of Transplantation**
    - **Moderated by Robert Liwski**, Dalhousie University, Canada
    - **Panelists**
      - Philip O'Connell
      - Chris Blosser
      - Anne Halpin
      - David Harriman
      - Ali Zarrinpar
      - Karen Sherwood
  - **Closing remarks – Karen Sherwood**, VCH, GCTC, UBC Precision Medicine in Transplantation Cluster

End of Symposium

## General information

PTx is organized by the Precision Medicine in Transplantation Research Excellence Cluster of University of British Columbia.

The symposium takes place at hospital premises. **Please wear a mask while on site, and practise good hand hygiene.** The attendees are requested to change their participation to virtual in case they are not feeling well. To register for virtual attendance [click here](#).

PTx has qualified for 1.2 ACHI Continuing Education Credits. Please contact us after the symposium to get your participation certificate needed to obtain the credits.

## Contact information:

<https://precisiontransplantation.ubc.ca>  
[precision.transplantation@ubc.ca](mailto:precision.transplantation@ubc.ca)

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