



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 (2nd 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

FINAL AGENDA

Monday, December 12, 2022

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

Tuesday, December 13, 2022

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

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



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Precision Medicine in Transplantation
Research Excellence Cluster



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 | Welcome address – Karen Sherwood , VCH, GCTC, UBC Precision Medicine in Transplantation Cluster | |
| 9.15-9.45 | Keynote – Philip O’Connell , Westmead Institute for Medical Research, Australia Predictive biomarkers to facilitate personalised management of transplant care | |
| 9.45-10.50 | Session 1 Precision Medicine Sponsored by One Lambda Moderated by Jenny Tran, VCH Mentor James Lan, UBC / VGH | Auditorium |
| 9.45-10.15 | Karen Sherwood , VCH, GCTC, UBC Precision Medicine in Transplantation Cluster <ul style="list-style-type: none">How to build Clusters of Excellence for Effective Innovation in Transplantation | |
| 10.15-10.45 | Matthias Niemann , Pirche AG, Germany (VIRTUAL) <ul style="list-style-type: none">Allele-specific solvent accessible amino acid mismatches are correlated with immunizer-specific HLA antibodies after kidney transplantation or pregnancy | |
| 10.45-10.50 | Industry Spotlight: One Lambda | |
| 10.50-11.15 | Morning coffee break | 2 nd floor rooms DHCC 2263 & 2264 |
| 11.15-12.45 | Session 2 Graft Bioengineering Moderated by Anne Halpin, University of Alberta Mentor Tom Blydt-Hansen, UBC | Auditorium |
| 11.15-11.45 | Giuseppe Orlando , Wake Forest University, USA (VIRTUAL) <ul style="list-style-type: none">Organ Transplantation, Bioengineering, Regeneration, Repair and Preservation: The Words May Change, but the Substance Remains the Same | |
| 11.45-12.15 | Rabindra Bhattacharjee , Western University, Canada <ul style="list-style-type: none">Preservation and protection of human kidneys at room temperature through oxygenated machine perfusion with repositioned drug | |
| 12.15-12.45 | John Coleman , Avivo Biomedical Inc., Canada <ul style="list-style-type: none">Converting organ blood-type to enable ABOi transplants with deceased donor organs | |
| 12.45-13.45 | Lunch | 2 nd floor rooms DHCC 2263 & 2264 |
| 13.45-15.20 | Session 3 Stem Cell Transplantation Sponsored by TwinStrand Biosciences Moderated by Karen Sherwood, VCH Mentor Michael Barnett, UBC | Auditorium |
| 13.45-14.15 | Clint Valentine , TwinStrand Biosciences, USA <ul style="list-style-type: none">Duplex Sequencing for ultra low frequency MRD detection in AML | |
| 14.15-14.45 | Florian Kuchenbauer , BC Cancer Research, Canada <ul style="list-style-type: none">Steering new directions for the treatment of AML | |
| 14.45-15.15 | Thomas Nevill , VGH, UBC, Canada <ul style="list-style-type: none">Optimizing Outcome in Unrelated Donor Stem Cell Collection Through Improved Donor Selection | |
| 15.15-15.20 | Industry Spotlight: TwinStrand Biosciences <ul style="list-style-type: none">June Hope, Sr. Commercial Development Manager - West | |

15.20-15.50 Afternoon coffee break 2nd floor rooms DHCC 2263 & 2264

15.50-17.15 Session 4 Societal Perspective Auditorium
Moderated by Colene Bentley, BC Cancer, ARCC

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 Mary Beaucage, Transplant patient, Canada (VIRTUAL)
○ Epitopes give Hope

16.45-17.15 Tania Bubela, SFU, Canada (VIRTUAL)
○ 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.

10.35-11.00 Morning coffee break 2nd 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 Amanda Cunningham, UBC
Mentor James Lan, UBC / 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 2nd floor rooms DHCC 2263 & 2264

13.30-15.05 Session 7 Advanced Technology and Computational Biology Auditorium
Sponsored by Oxford Nanopore
Moderated by Franz Fenninger, 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

15.05-15.30 Afternoon coffee break 2nd floor rooms DHCC 2263 & 2264

15.30-16.30 Closing Session Auditorium

- **Panel: Future of Transplantation**
 - **Moderated by Robert Liwski**, Dalhousie University, Canada
 - **Confirmed panelists**
 - Philip O'Connell
 - Chris Blosser
 - Anne Halpin
 - Florian Kuchenbauer
 - Franz Fenninger
 - 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>
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