



Canadian Child Health  
Clinician Scientist Program

**CCHCSP**  
**PCCCSE**

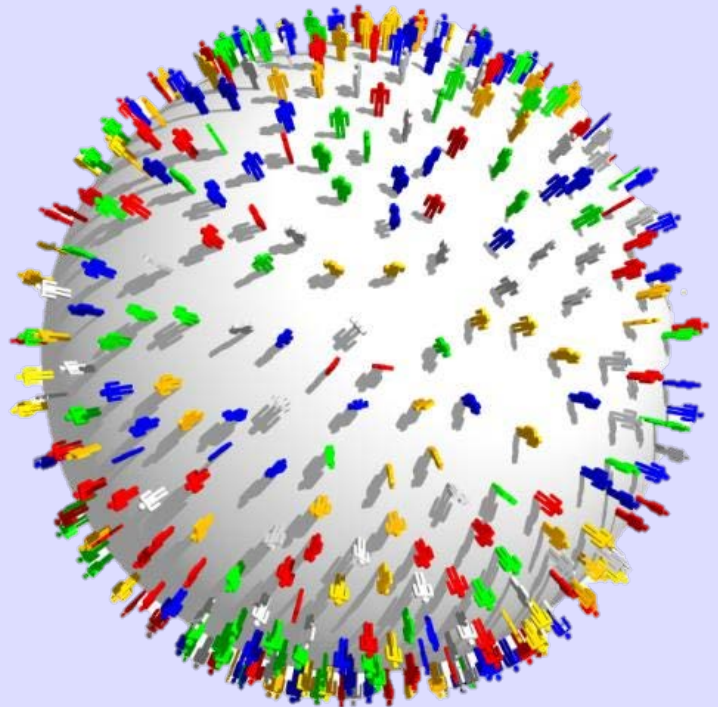


Programme canadien de cliniciens-  
chercheurs en santé de l'enfant

**A Bold New Future**



# PROGRAM MISSION



Increase number and impact of child health researchers



Train using an interdisciplinary model



Create a seamless pathway from Trainee → Junior faculty → Mentor → Leader



# Directors and contributions



Dr. Norman Rosenblum

2002

- CIHR STIHR funding
- Curriculum & Mentor network
- Additional Support
  - SickKids Foundation
  - BC Children's Hospital Research Institute/Foundation



Dr. Nicola Jones

2013

- CIHR STHR Closes
- New financial model with multi-centre/stakeholder support
- Integrated novel training tools



Dr. Susan Samuel

2018

- Amplify Institutes' support (14 total)
- Refresh curriculum
- CIHR Training Grant Coming soon



# Achievements To-Date

## AWARDS



131 Awards to 107 trainees



44% MDs, 56%  
Nursing & Allied  
Health



13 of 17 Academic  
Centres Represented

## PUBLICATIONS



2352 total  
published peer  
review papers



1536 Physicians  
816 Nursing &  
Allied Health



9 publications per  
year, 6 years post  
award

## GRANTS



1175 Grants  
totaling over \$300  
million



85% of trainees  
received a total of  
711 national grants



76% of trainees  
received a total of  
295 CIHR grants

## APPOINTMENTS



96% have faculty  
position



92% are Clinician  
Scientists



42% are Chairs,  
VPs, Directors



# WHO IS WHO IN CCHCSP?



Mario Cappelli



Roger Chafe



Sandy Hodgetts



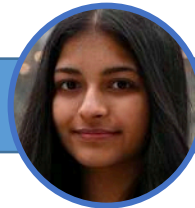
Thierry Lacaze



Shannon MacDonald  
Trainee Rep



Jennifer Stinson



Natasha Trehan  
Patient Partner



Ron Thomson  
Parent Partner

## Executive Committee



Susan Samuel  
Director



Richard Keijzer  
Co-Director



Linda Pires  
Manager

## Program Operations



Eric Benchimol  
Co-Chair



Catharine Walsh  
Co-Chair



Danijela Grahovac  
Parent Partner



Jaime Winkler  
Parent Partner

## Curriculum Committee

Plus 3 members spanning and a patient partner TBD



Richard Keijzer  
Chair



Brendan Andrade  
Co-Chair



Samantha Anthony  
Trainee Rep



Liz Crawford  
Patient Partner



Brenndon Goodman  
Patient Partner



Claudia Tersigni  
Patient Partner

## Selection Committee

Plus 10 members spanning all 4 CIHR pillars and 4 (at min) disciplines

Dyads of physician and allied health Co-Leads for each of the 17 academic centers.

## Centre Leaders



# GUIDING PRINCIPLES

## EQUITY, DIVERSITY & INCLUSION

REPRESENTATION ACROSS ALL THEMES OF RESEARCH



YOUTH, PARENT AND FAMILY ENGAGEMENT

ACKNOWLEDGE AND EMBRACE INDIGENOUS WAYS OF KNOWING/DOING. PROMOTING HEALTH & WELLNESS



INTERDISCIPLINARITY

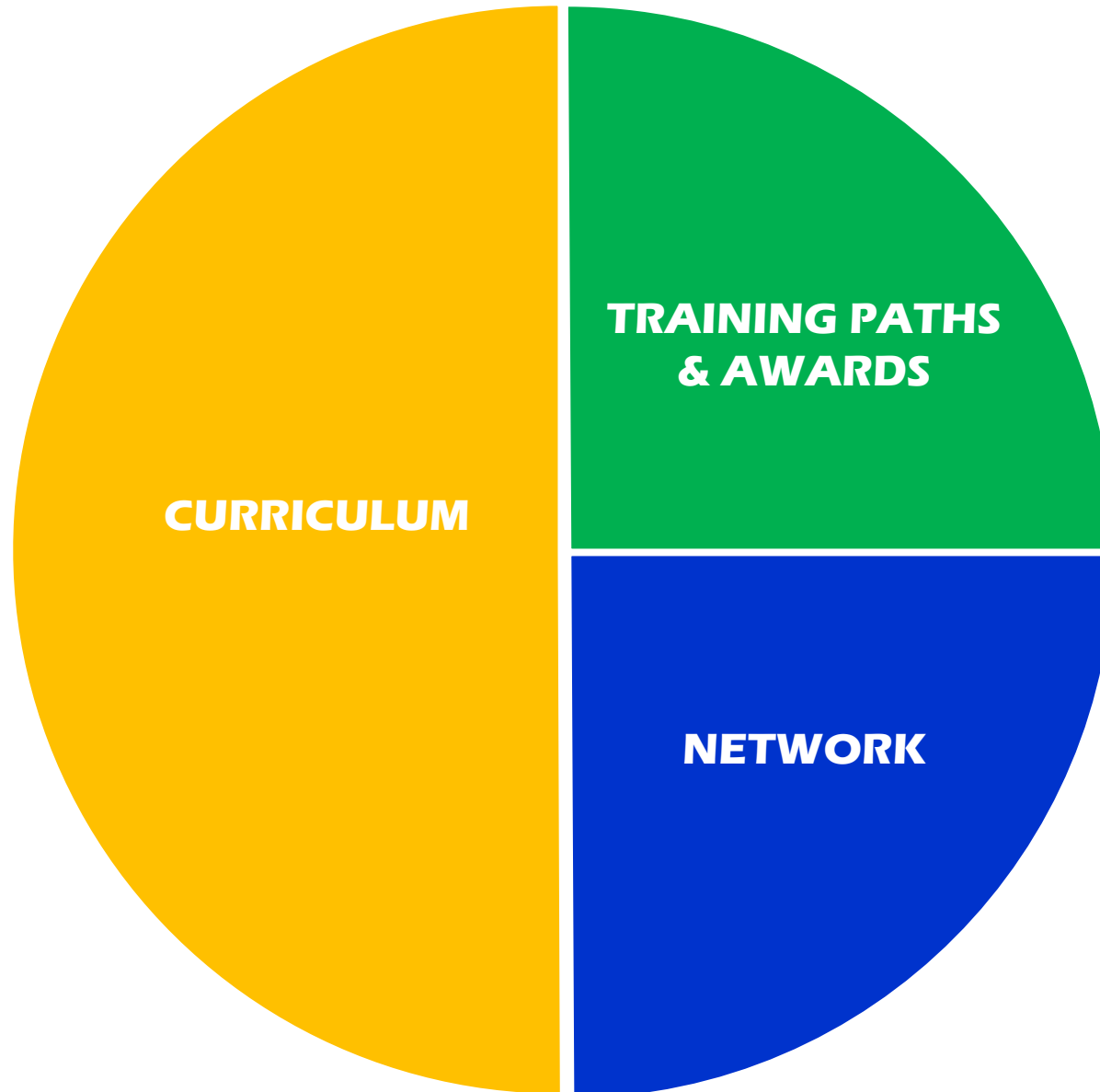
NATIONAL REPRESENTATION



TRAINEE REPRESENTATION

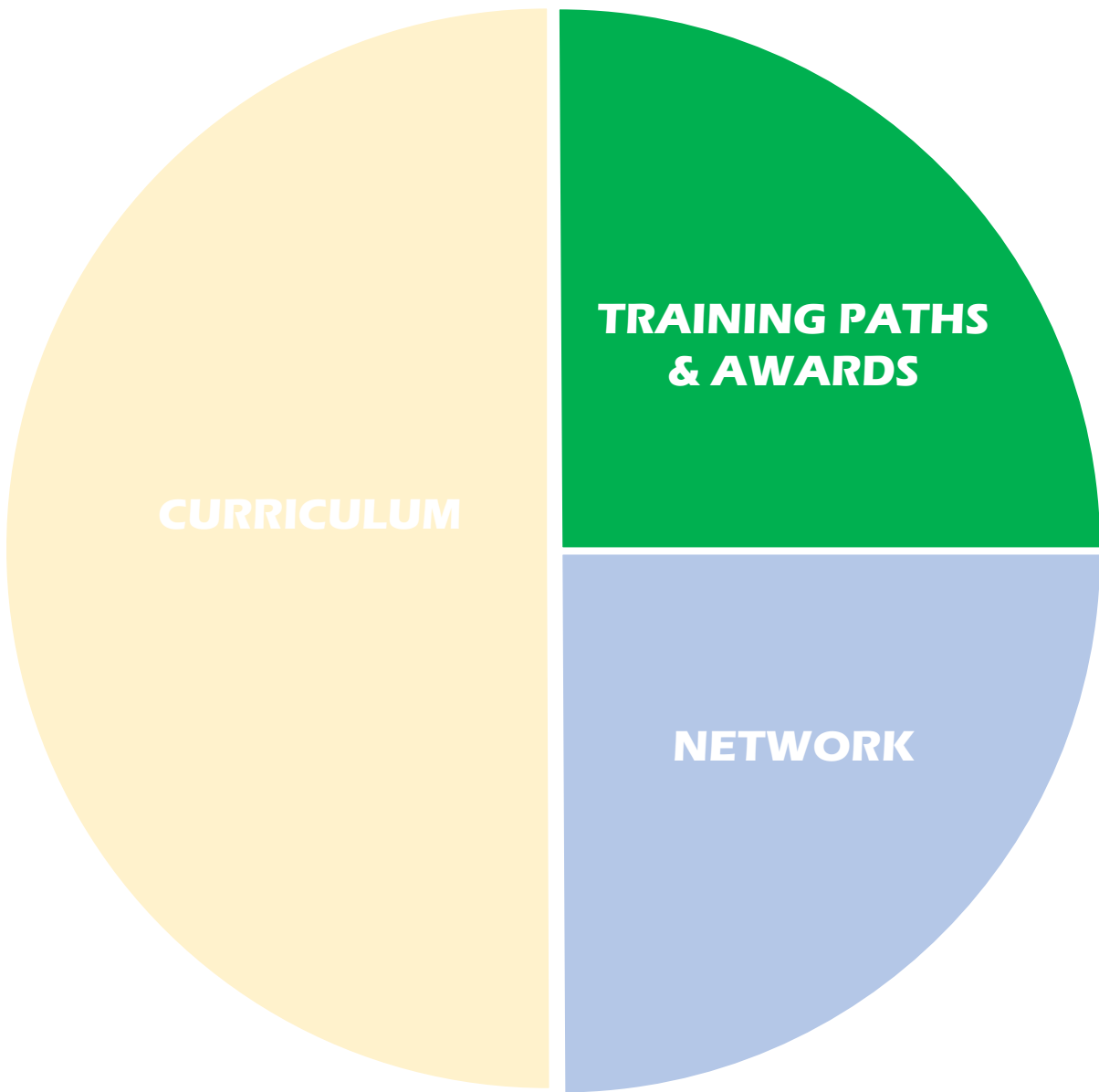


# WHAT IS THE PROGRAM?





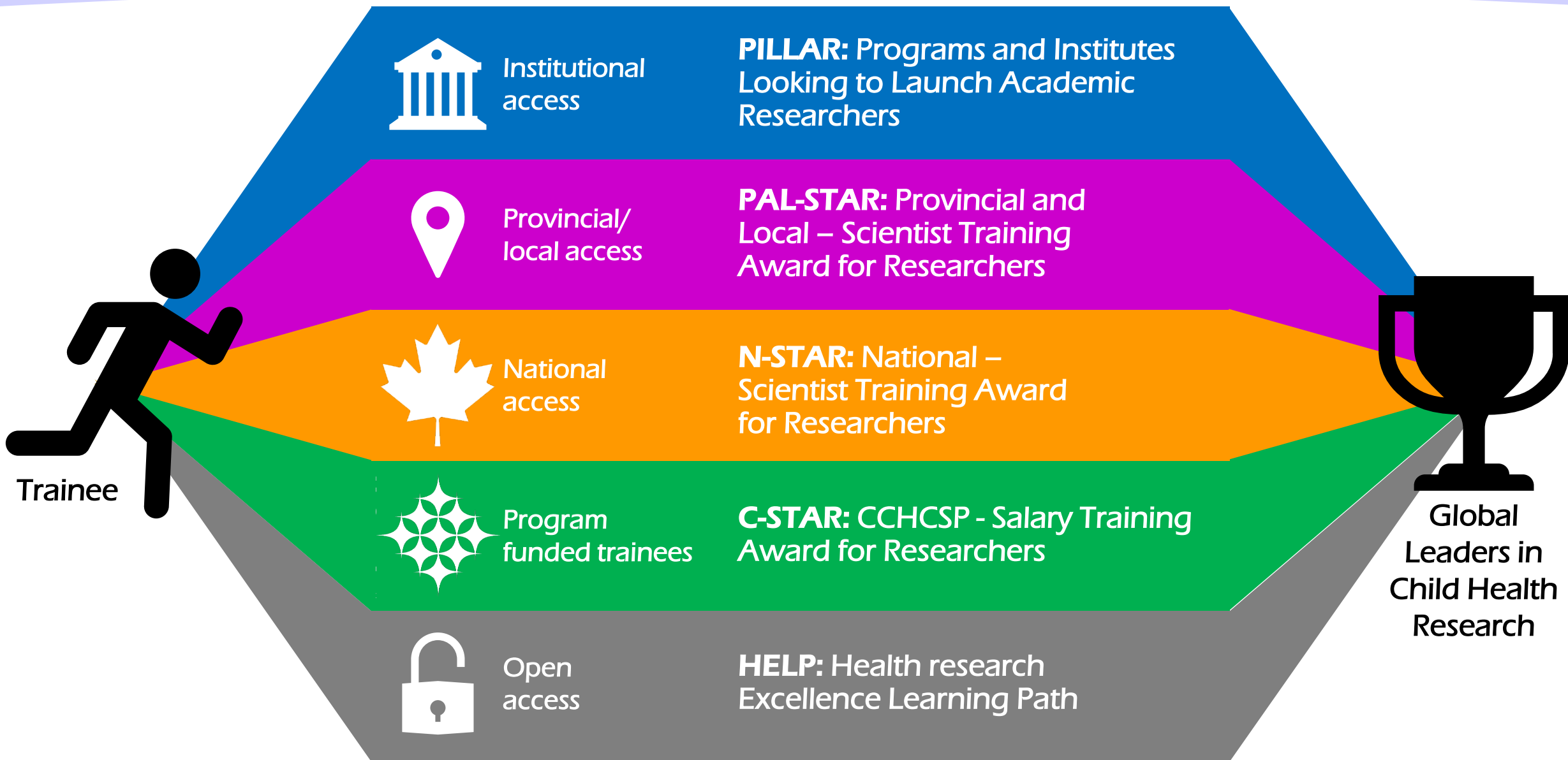
# WHAT ARE THE TRAINING PATHS?







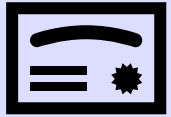
# 5 TRAINING PATHS



# WHO IS A CCHCSP “PROGRAM” TRAINEE?



Active (or pursuing) clinical license



Minimum graduate training is Masters (PAL-STAR, N-STAR, C-STAR)



50% protected research time required



Human development/infant/child/youth health focus  
Conception to transition to adulthood

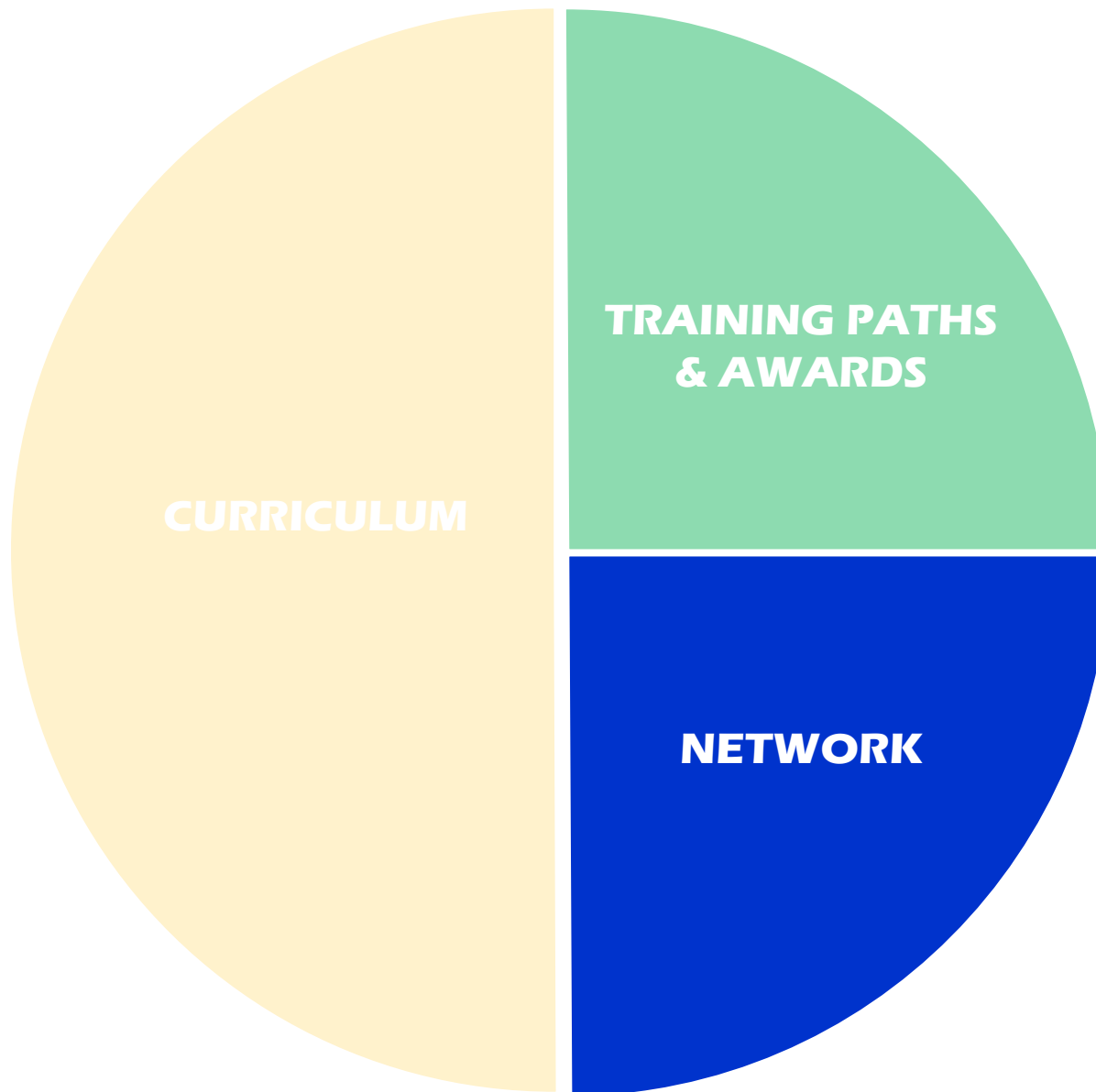


Local supervisor/mentor

**ALL OTHER HEALTH RESEARCH TRAINEES AND MENTORS CAN UTILIZE OPEN ACCESS OR PAY IN COMPONENTS OF THE PROGRAM**



# WHAT IS THE NETWORK?





# WHAT IS THE NETWORK?

## Mentorship



- Director and Co-Director
- Selection Committee
- Centre Leaders
- Peer to peer
- Top Clinician Scientists in Canada

## Progress Review



- Formal annual reviews
- Informal feedback
- Helping each other along the way
- Inspiration and strength



# Community Impact



**MY ACADEMIC HOME**  
Lianne Tomfohr-Madsen, Psy  
Active CDA, U Calgary

**OPENED MY EYES AND SHOWED ME THE WAY**  
Eytan Wine, MD.  
Clinician-Scientist,  
Associate Professor, U Alberta



**ARMED TO ADVOCATE FOR AN UNCONVENTIONAL POSITION**  
Shannon MacDonald,  
RN  
PhD 2013, U Alberta  
Active CDA, U Alberta

**A GAME CHANGER.**  
Cristina Dias, MD  
PhD 2015, UBC  
PDF, The Francis Crick  
Institute UK

**TRANSFORMATIVE | DISRUPTIVE:**  
Stuart Turvey, MD.  
CDA 2010, UBC.  
Clinician Scientist,  
BCCHRI



**THESE ARE MY PEOPLE!**  
Liisa Holsti, OT  
CDA 2009, UBC  
Associate Head, Dept  
OT, UBC  
Tier 2 CRC Neonatal  
Health/Development

**TOOLS, SKILLS, NETWORK, MENTORS THAT SUPPORT MY OWN CAREER PATH**  
Maude Perreault, RD  
Active CEP, McMaster



**OPENED NEW AVENUES AT A VERY EARLY STAGE OF MY RESEARCH CAREER**  
Andrea Doria, MD  
CDA 2010, U Toronto  
Research Director  
Dept of Diag Imaging,  
SickKids



## TRAINEE TO LEADER

### Centre Leaders

1. Liisa Holsti (UBC)
2. Robert Schroth (U Manitoba)
3. Eytan Wine (U Alberta)
4. Sandy Hodgetts (U Alberta)
5. Pascal Lavoie (UBC)
6. Astrid Guttmann (U Toronto)
7. Melanie Couture (Sherbrooke)
8. Pascal Lefebvre (Laurentian)
9. Melissa Parker (McMaster)
10. Heidi Cramm (Queen's)
11. Janet Curran (Dalhousie)

### Selection Committee

12. Todd Alexander (U Alberta)
13. Shannon Scott (U Alberta)
14. Richard Keijzer (U Manitoba)
15. Mandi Newton (U Alberta)
16. Jill Zwicker (UBC)
17. Brendan Andrade (U Toronto)
18. Virginia Wright (U Toronto)
19. Robert Jankov (U Ottawa)
20. Sumit Gupta (U Toronto)

### Executive Committee

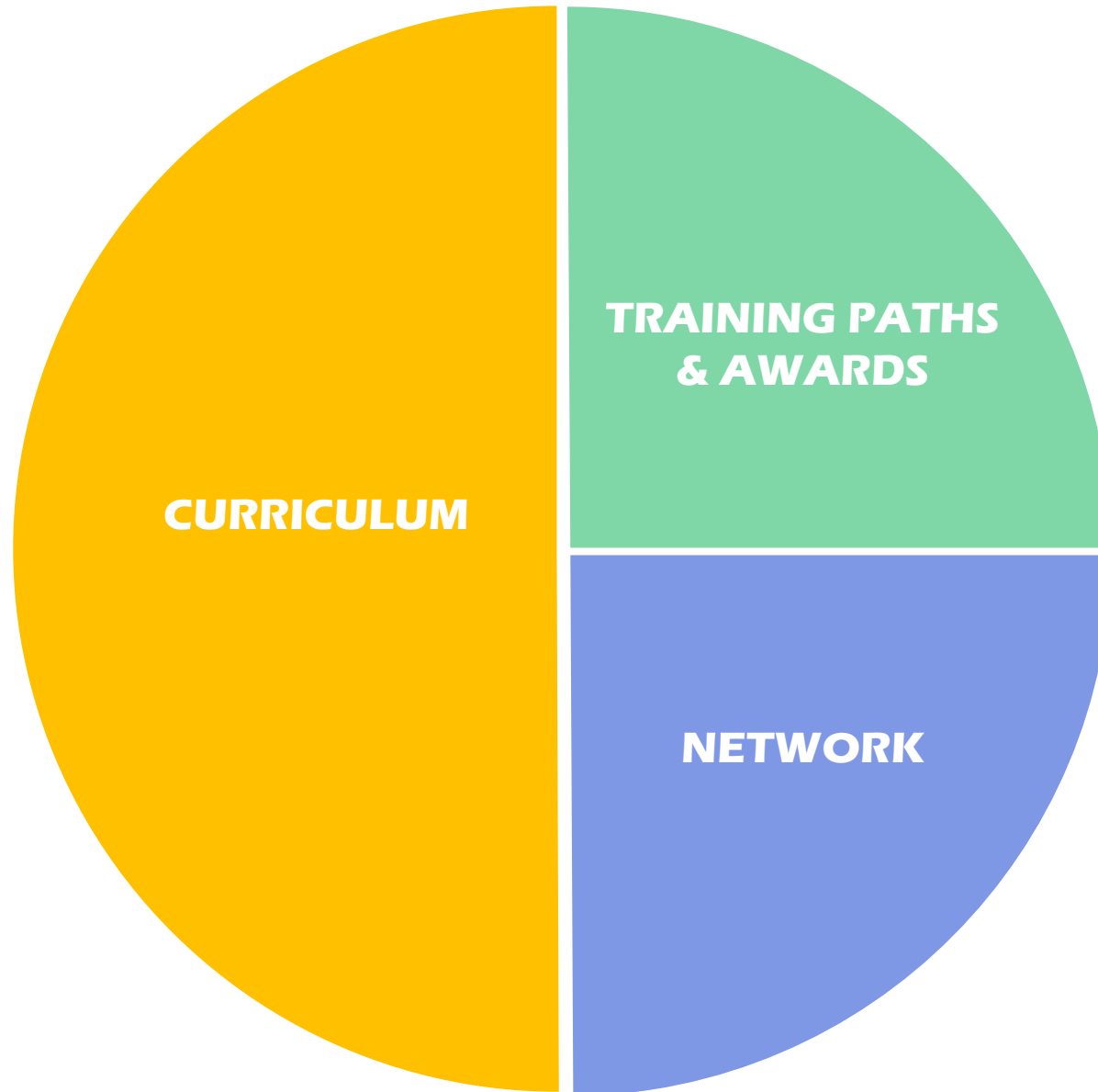
21. Susan Samuel (U Calgary), Director
22. Shannon MacDonald (U Alberta)
23. Jennifer Stinson (U Toronto)

### Curriculum Committee

24. Catharine Walsh (U Toronto)
25. Eric Benchimol (U Ottawa)



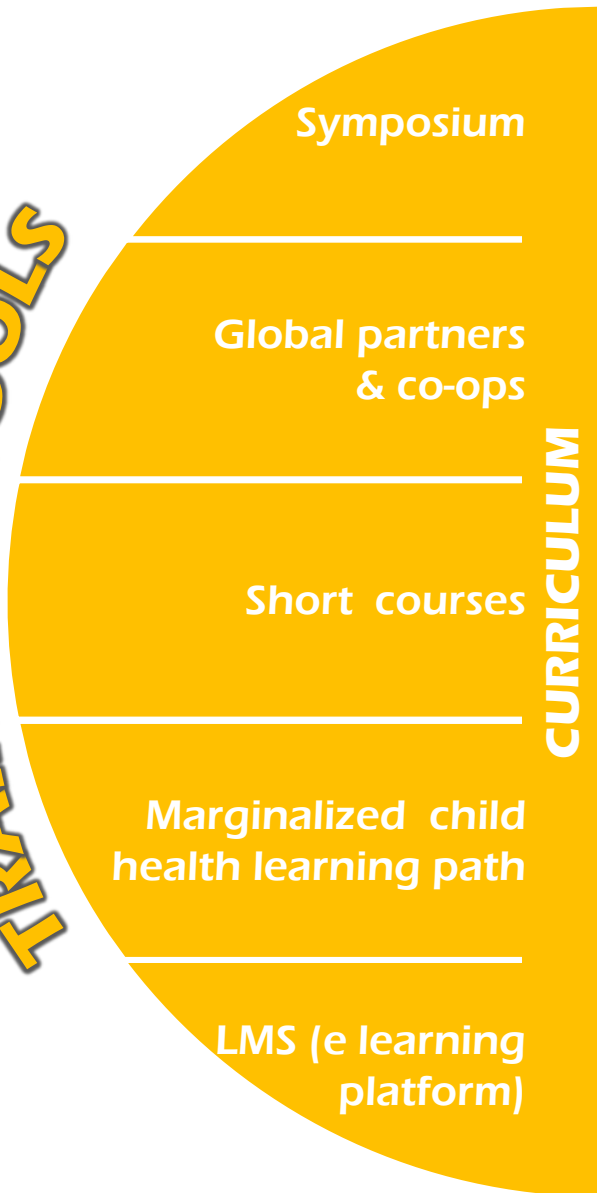
# WHAT IS THE PROGRAM?





# INNOVATING THE CURRICULUM

TRAINING TOOLS



CURRICULUM

CORE COMPETENCIES

Cross disciplinary scientific excellence: Research methods, writing/peer review/rejections, KT

Mentorship training

Management and leadership

Communication and media (branding/media)

Patient oriented research

Equity, diversity, inclusion

Indigenous engagement and research

Personal effectiveness

Personal wellness

Global citizen and public policy

Industry/technology transfer

Ethics in child health research and more

Big data and artificial intelligence in health research

Business & entrepreneurial



ARCHIVE

- Handbook
- Cases
- Webinars
- Workshops



RESEARCH/  
EVIDENCE

- Scoping review
- Qualitative study



# LEARNING MANAGEMENT SYSTEM

## VISION

An open source platform to share and use learning tools to develop the core competencies of a skilled health professional **researcher**, while providing infrastructure for mentorship and progress reviews.

To become the **'go to resource'** for scientist training in Canada.





# LEARNING MANAGEMENT SYSTEM

CURRICULUM



Open Registration



Upload/Take courses

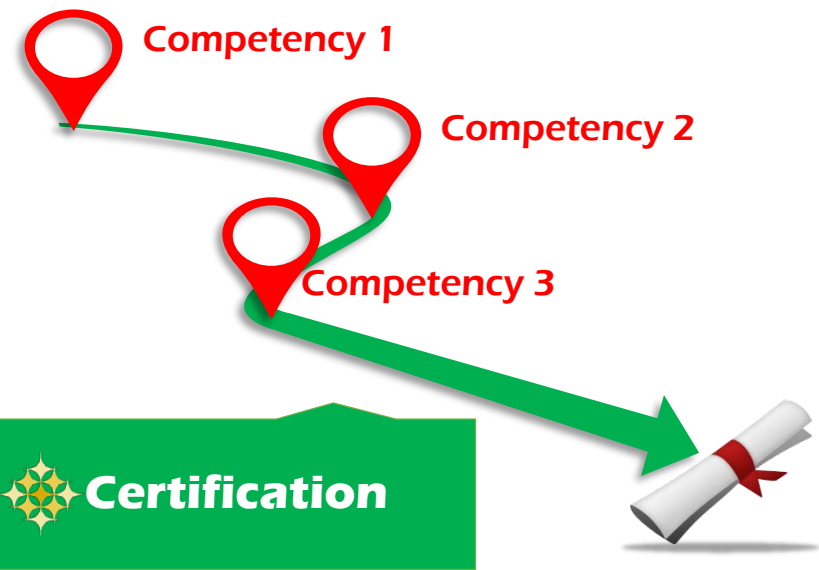


How to write effectively 3 MONTHS  
Business Research



Live Sessions

TRAINING PATHS



NETWORK



Mentorship

RESEARCH AND SCHOLARSHIP	Intervention	Direction	Support
<b>Research Methods</b>			
Performing a comprehensive literature review	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formulating a hypothesis* and/or objectives (*as appropriate for field of research)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Designing a research approach	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Writing an ethics application	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carrying out a research plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyzing the results	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Knowledge Translation and Impact</b>			
Creating a KT strategy for a project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Creating and presenting a poster	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Creating and giving a platform presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Implementing a KT strategy for dissemination of results	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Scientific Writing and Peer Review</b>			
Writing an abstract	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Writing			
Writing			

Individualized Research Development Plan



# Here to Help



Susan Samuel, MD MSc  
Director  
T: (403) 955-7950  
E: [susan.samuel@ahs.ca](mailto:susan.samuel@ahs.ca)



Linda Pires, HBSc  
Research Operations Manager  
T: 416-813-7654 x204304  
E: [linda.pires@sickkids.ca](mailto:linda.pires@sickkids.ca)



Canadian Child Health Clinician Scientist Program  
555 University Ave. Rm 7291 Black wing  
Toronto, ON. M5G 1X8  
<http://cchcsp.ca/>



Health



Colleagues



Institution



Mentors



Feedback

