

CIHR International Infectious Disease & Global Health Training Program

Canada • Colombia • India • Kenya





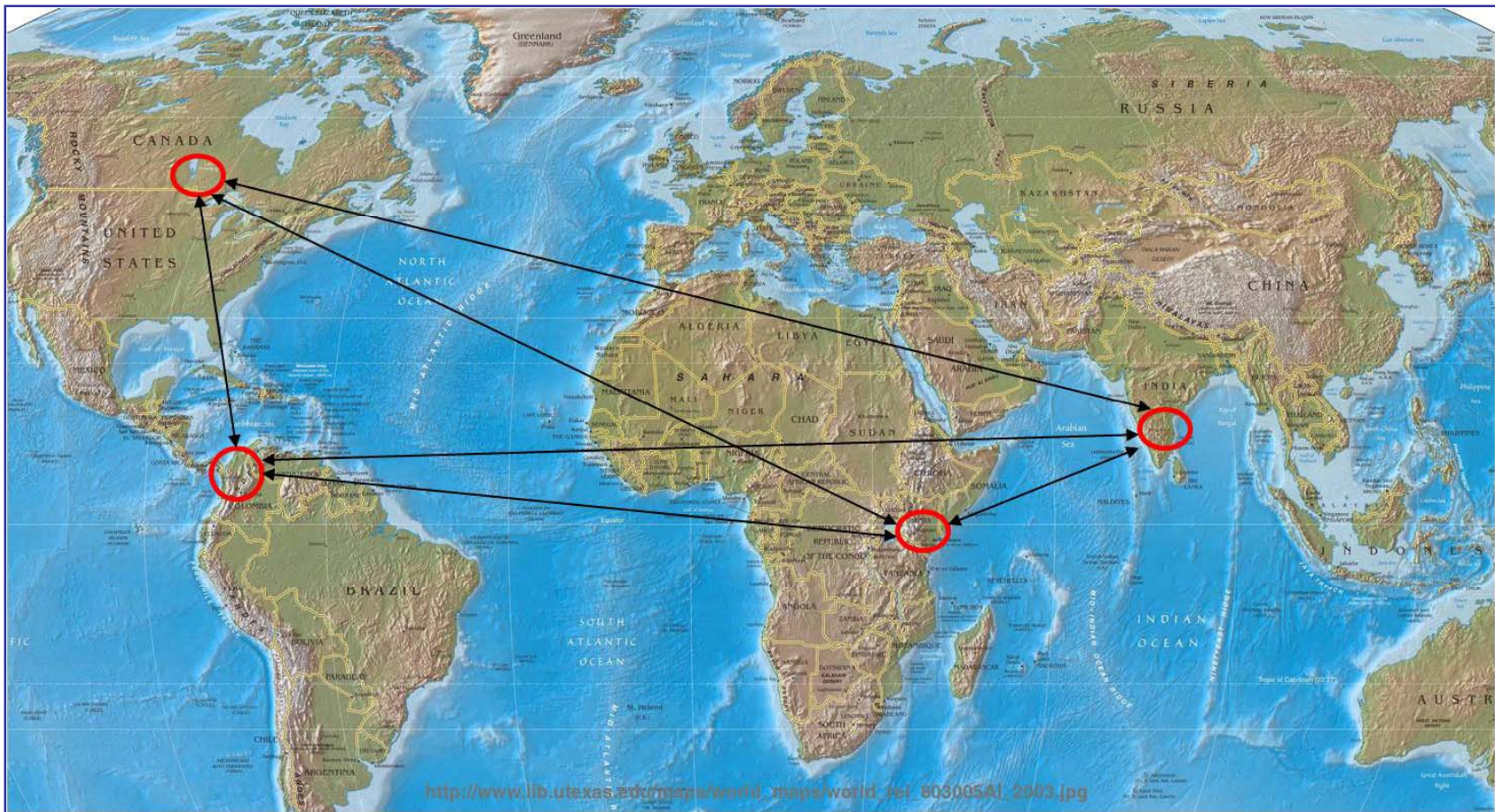
CIHR's STIHR Program

- Strategic Training in Health Research
- Established in 2002
- Renewal process in 2008
- Multiple themes
- Criteria
 - Excellence in mentorship
 - Multi-disciplinary
 - Innovative and effective
 - Raise national standards for training



International Infectious Disease and Global Health Training Program

Four Continents: One Shared Experience



CIHR International Infectious Disease & Global Health Training Program
Global Health Training Program



Primary Topics

- HIV/AIDS
- Global Health
- Emerging Infectious Diseases





Objectives

- Train **outstanding leaders** in infectious diseases and global health research.
- To create a novel and stimulating **multidisciplinary** and **truly international** research training environment.
- To harness the unique opportunity offered by the **critical mass** of infectious diseases and global health infrastructure.
- To make available **collaborative international research sites** for the trainees' primary research projects, sites for research practica and major course offerings.
- To offered a **shared learning environment** between sites.

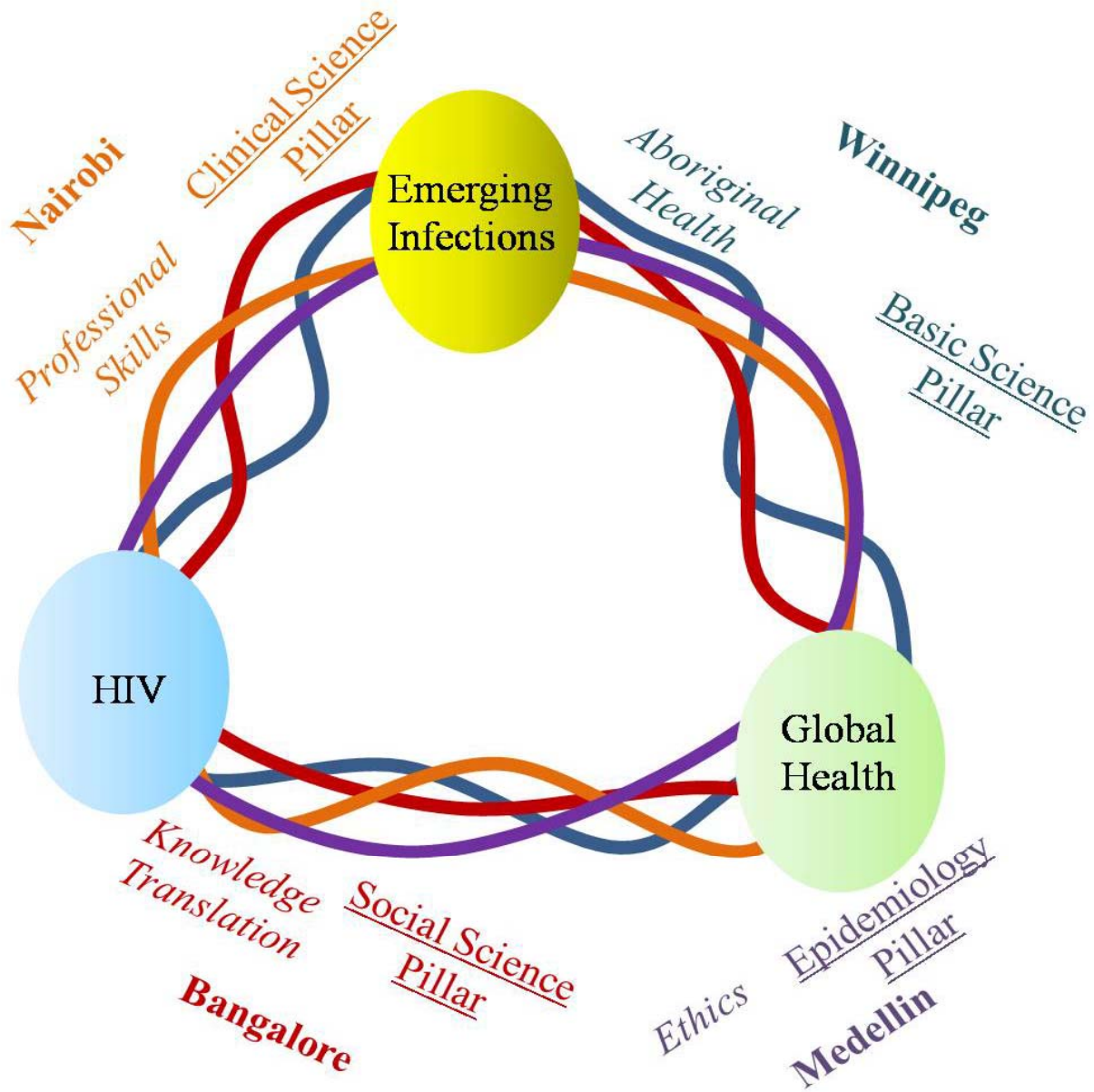
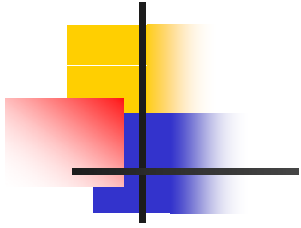




Purpose

- Change careers
 - International focus
 - Multidisciplinary approach
- Create networks
 - Linking between existing major research programs
 - Create networks within the training program
- Change lives
 - Of trainees
 - Of those they serve





IID&GH Training Program and Partners

Ade and Company Patent Agents

CANGENE Corp.

Manitoba HIV Program

International Centre
for Infectious Diseases

Karnataka Health
Promotion Trust

Assembly of Manitoba Chiefs

CIHR

Public Health Agency of Canada

Manitoba Health
Research Council

St. John's Medical College

University of Manitoba

Univ. of Nairobi

Centre for Global
Public Health

Manitoba Instit.
for Child Health
Moi University
Snehadaan



Ashodaya

Univ. of Indiana
Centre for Bioethics

Univ. of Winnipeg
Global College

Infectious Immunology
Research Interest Group

Chaitanya

Centre for Aboriginal
Health Research

Univ. of Antioquia

Univ. of Toronto

Joint Centre for Bioethics

Lepra

India Health
Action Trust

Kenyan Medical
Research Institute

Province of Manitoba

Cadham Provincial Lab

Nine Circles Community Clinic

National Coordinating Centre
for Infectious Diseases

Belgaum Integrated Rural
Development Society

Kenyan AIDS Vaccine Initiative

Soltaris Consultants

Academic Partners

Government Partners

Non-Gov't Organization Partners

Private Sector Partners





Program Advisory Committee

- Major Stakeholders
 - Academia
 - Industry
 - Government
 - First Nations
 - Not-for-profit Sector
 - Community
 - International Sites
- First meeting May 12, 2010
- Second meeting Oct 14, 2011



Leadership

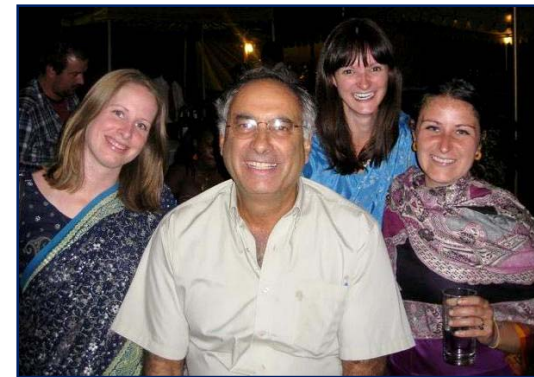
■ Key Leaders

- Keith Fowke, Francis Plummer, Stephen Moses, John Wylie, Javier Mignone



■ Site Coordinators

- Keith Fowke, Stephen Moses, Julius Oyugi, Carlos Rojas





Mentors

Ross Upshur	Eric Meslin	Catherine Cook	Brenda Elias
Kathi Avery Kinew	Michael Eze	Mike Drebot	Sharon Bruce
Robbin Lindsay	T. Blake Ball	Carole Beaudoin	Pat Martens
Stephanie Booth	Walter Jaoko	Omu Anzala	David Knox
Elijah Martim Songok	Solomon Mpoke	B.M. Ramesh	Margaret Fast
Sushena Reza-Paul	María Teresa Rugeles	Joanne Embree	Chris Green
Larry Gelmon	Pam Orr	Darryl Hoban	Michael Williams
George Zhanel	Xiaojian Yao	Xi Yang	Darren Fast
Linda Larcombe	Jude Uzonna	Kevin Coombs	Joyce Slater
Sam Kung	Benson Estambale	Lázaro A. Vélez G	Robert Lorway



Trainees



- PhD students, PDF and clinical fellows
- Positions available for local and international trainees
 - 2-4 PhD trainees at each international site
- International network of trainees and mentors



Trainees:



- Round 1-22, Round 2–12, one left program – total 33
- Colombia 2, India 7, Kenya 4, Canada 20
- Basic/clinical – 22, Epi/Social – 11
- PhD - 25, PDF - 7, Clinical Fellow – 1
- **76% (16/21) of CDNs have external salary awards**





Meet some trainees

**James Sainsbury**

Home Country: New Zealand

Degrees: University of Manitoba, Postdoctoral Fellow, Victoria University of Wellington, PhD, BSc(Hons) Victoria University of Wellington, BSc.

Supervisor: Dr. Frank Plummer

Project Title: Characterisation of a novel candidate gene for the HIV-1 Resistance Phenotype in the Pumwani Sex Worker Cohort.

**Nadia Musimbi Chanzu**

Home Country: Kenya

Degree: University of Nairobi Institute of Tropical and Infectious Diseases, PdD student Masters of Science in Biomedical Science, Kingston University, London, UK Bachelor of Science in Biochemistry from University of Nairobi, Kenya

Supervisor: Prof. Walter Mwanda, Prof. Omu Anzala, and Dr. Julius Oyugi

Project Title: Secretor Status, FUT2 Polymorphisms and the Risk of Infection by HIV and HPV in Female Sex Workers in Kenya

**Natalia Taborda-Vanegas**

Home Country: Colombia

Degree: University of Antioquia, Doctoral student in basic sciences

Supervisor: Dr. María Teresa Rugeles

Project Title: Evaluation of genetic and immunological mechanisms involve in resistance to HIV-1 exhibited by chronically infected individuals who control viral replication without antirretrovirals

**Jayanna Krishnamurthy**

Home Country: India

Degrees: M.D. Community Medicine, Rajiv Gandhi University of Health Sciences, Bangalore, India; M.B.B.S, Mysore University, Mysore, India

Supervisor: Dr. Stephen Moses

Project Title: Integrating HIV into General Health Systems; Opportunities and Challenges in Indian context.





Major Research Project

- The primary research learning experience
- Project developed
 - between supervisor and trainee
 - before entry into Program
- Progress on research
 - If part-time MUST ensure appropriate protective time (that is what stipend is for)
 - Assessed by supervisor in annual report and scientific symposium by program
 - Publications expected



Infectious Minds

- Scientific Discussion Group
- Monthly – linked by Video Conferencing
- Topics and guests chosen by trainees
- Expert guest on “hot” topics
- Trainee-led follow-up presentation
 - Trainees from all sites jointly present
- Sessions recorded and available on-line
 - <http://stream.bann.umanitoba.ca/media/CIHR>
- Javier Mignone leads
- Knowledge Translation via Publications





Research Practicum

- Purpose: to foster multidisciplinary research
- Must be in a CIHR Pillar unrelated to trainee's primary project or a skill not available in their environment
- International practica are encouraged
- 1-3 Months working for another organization/lab
- IID provides salary – Practicum site provides environment
- Examples:
 - HIV geneticist assessing peer review policy at PHAC
 - Geographic epidemiologist learning clinical microbiology skills
 - Epidemiologist doing social research in India

- John Wylie leads



Scientific Symposium

- Trainee presentations and keynote speakers
- National and international experts invited
- Trainees give oral presentations
- Trainees given extensive access to experts
- Networking encouraged so trainees can explore options for next phases of their careers and collaborations



Learning Visits



- Trainees at site of Major Course host the learning visits
- Winnipeg: NML, Nine Circles, Whiteshell petroglyphs, Sweat Lodge, Bowling, U of M Centres (MCHP, CAHR, CGPH)
- Bangalore: visit Karnataka Health Promotion Trust (KHPT) projects
- Nairobi: Majengo clinic, KNH, KAVI, UNITID Labs



Seminar Series

- Visiting speakers series hosted at each site
 - Gardiner Laureate in Global Health Dr. Nicholas White – Oct 19, 2011, Winnipeg
 - Co-sponsored the HIV Mucosal Immunology Symposium, Winnipeg, April 2011
- Trainee networking opportunities





Communications

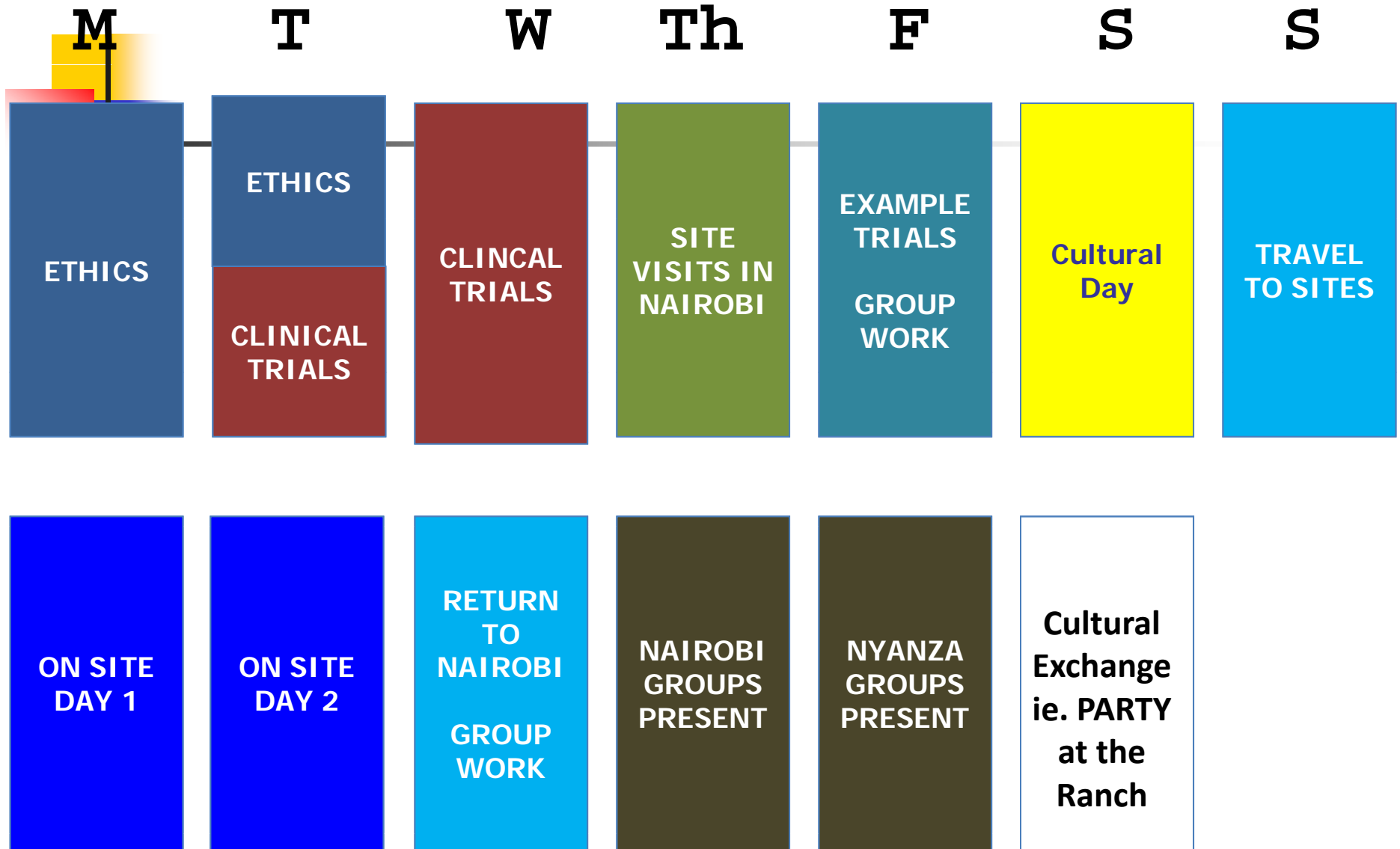
- Video conference capabilities
 - All sites have their own equipment funded by IID&GHTP
 - Enhancing training and research
 - Session recorded and available at
 - <http://stream.bann.umanitoba.ca/media/CIHR>
- Web site www.iidandghttp.com
 - On-line application information
 - Over 28,500 hits
- Google documents site
 - Document sharing
 - Group activities
- UM Bulletin Article in May 2010



Major Course Offerings

- Each course would be 2-3 weeks
- Rotate between sites
- Ecology of ID
 - Winnipeg, 2010, 2013
- HIV Interventions
 - Bangalore, 2011
- Clinical trails/Int'l Research Ethics course
 - Nairobi, 2012
- Epidemiology/Aboriginal-Indigenous Peoples Health
 - Medellin, 2013?







Sites - Current Trial

- ***Kangemi:*** HIV vaccine trial (phase 1)
- ***Kariobangi:*** Prevention of vaginal infections in FSW
- ***Thika:*** Pre-exposure prophylaxis for HIV in discordant couples
- ***Siaya:*** Presumptive treatment of malaria in pregnancy
- ***Bondo:*** Pre-exposure prophylaxis for HIV in high-risk women
- ***Migori:*** Cluster randomized trials of integrating ANC-HIV care, HIV care-FP



Clinical Trial Sites

<u>Field Site</u>	<u>PI / Mentors</u>	<u>Current Trial</u>	<u>Hypothetical Trial for Part II</u>
<i>Kariobangi, Nairobi</i>	Joshua Kimani, Scott McClelland, Jessie Kwatampora	Prevention of vaginal infections -Phase II	Genetically modified Lactobacillus as treatment for BV (HIV as an outcome).
<i>Kangemi, Nairobi</i>	Omu Anzala, Gaudensia Mutua	HIV vaccine safety trial - Phase I	Phase III vaccine trial in MSM, FSW (with PrEP/vaccine as an arm)
<i>Thika</i>	Nelly Mugo, Kenneth Ngure	PrEP trial in discordant couples	Safety and efficacy of long-acting PrEP (in combination with contraception)
<i>Siaya</i>	Joshua Kimani	Prevention of malaria in pregnancy	Behavioural intervention to reduce HIV incidence in women aged 18-24.
<i>Bondo</i>	Kawango Agot, Fred Owino	PrEP trial in high-risk women	Cluster-randomized trial to improve adherence to PrEP
<i>Migori</i>	Elizabeth Bukusi, Craig Cohen, Maricianah Onono	Cluster-randomized trial of integrating HIV care with ANC and/or FP	CCR5 gene therapy Phase I safety trial.

