



**CIHR International Infectious Disease &
Global Health Training Program**
Canada • Colombia • India • Kenya

**Canadian Institutes of
Health Research**

International Infectious Disease & Global Health Training Program

**ANNUAL REPORT •
2013**

2013 At a Glance

ABOUT US	1
OBJECTIVES	1
TRAINEE SPOTLIGHT.....	2
2013 TRAINING PROGRAM GRADUATES	5
RECRUITMENT.....	6
LIST OF TRAINEES AND PROJECTS	6
ACADEMIC PROGRAM	9
INFECTIOUS MINDS SCIENTIFIC DISCUSSIONS	12
PRACTICA: 2013 REPORT.....	14
PROGRAM ADVISORY COMMITTEE.....	15
PLANS FOR 2014.....	15
FUNDING & ACADEMIC PARTNERS.....	16



The IID&GH Training Program in Winnipeg, Canada for the Major Course, “Ecology of Infectious Diseases,” May 6-17, 2013

ABOUT US

The International Infectious Disease and Global Health (IID&GH) Training Program is hosted by the University of Manitoba under the direction of Dr. Keith Fowke, Professor and Head of the Department of Medical Microbiology.

The IID&GH Training Program seeks to enhance existing PhD and Post-Doctoral Fellow research training programs by linking trainees from four international research sites (Canada, India, Kenya and Colombia). This linkage provides an opportunity for the trainees to explore international infectious disease and global health issues from a multidisciplinary approach.



Dr. Keith Fowke, Director of the International Infectious Disease and Global Health Training Program

OBJECTIVES

1. To equip trainees with the research, scientific knowledge and skills to become **outstanding researchers** in infectious diseases and global health.
2. To create a novel and stimulating **multidisciplinary** and **truly international** research training environment that fosters creativity, opportunity, and innovation, and one that demands excellence.
3. To harness the unique opportunity offered by the **critical mass** of infectious diseases and global health infrastructure, research opportunities and outstanding scientists in the training of the next generation of infectious disease researchers.
4. To make available **collaborative international research sites** for the trainee's primary research projects, sites for research practica and major course offerings.
5. To offer a **shared learning environment**, where trainees and mentors from all four of CIHR's research pillars and the four international training sites work cooperatively to explore issues of international infectious diseases and global health.



Wbeimar Aguilar during the EcoID course in Winnipeg, Canada

TRAINEE SPOTLIGHT

Wbeimar Aguilar is a PhD trainee from Urrao, a small village in Colombia. He completed a BSc in Biology and a MSc in Basic Biomedical Sciences at the Universidad de Antioquia. Wbeimar is currently working on the phenomenon of natural resistance to HIV-1 infection exhibited by HIV-1 highly exposed, but seronegative (HESN) individuals in the Grupo Inmunovirología under the direction of Dr. Maria Teresa Rugeles. His PhD project focuses on the association between allelic variants in the vitamin D pathway and antiviral response genes with resistance to HIV-1 infection, in order to measure mRNA levels of antimicrobial peptides in mucosa and to explore potential mechanisms of this association in HESN.

Since joining the program Wbeimar has found the experience to have had a great impact on his career. “I really appreciate the training program. It has given me the opportunity to understand infectious diseases not only from a basic science perspective, but also from a social science perspective. The major courses were a wonderful academic experience. I could share my basic science knowledge in the Colombian context with researchers and PhD students from both basic and social science who were from several developed and undeveloped countries such as Canada, India and Kenya. As well, the courses allowed me to better understand how research must involve the community in a horizontal manner instead of a vertical manner. I am very grateful for this training program and fully recommend it to others.”



Genevieve Boily-Larouche at the Universidad de Antioquia during the Practical Epidemiology and Indigenous Health Course in Medellín, Colombia

Genevieve Boily-Larouche's desire for research and public health began following her undergraduate studies at the University of Montréal when she first set foot in Africa and witnessed the damage caused by HIV/AIDS. She began her journey as a graduate student at the University of Montréal working on mother-to-child transmission of HIV in a

cohort of Zimbabwean infants and graduated with a PhD in Immunology in May 2012. Currently, Genevieve is completing her post-doc in Dr. Keith Fowke's laboratory at the University of Manitoba working on the impact of sex-work and menstrual cycle on HIV susceptibility/protection among female sex workers from Nairobi, Kenya. Genevieve has been awarded two research grants to pursue this project, one from the Canadian Institute of Health Research (CIHR) and the other from Fonds de Recherche du Québec- Santé (FRQ-S).

Geneviève was very thrilled to be accepted into the training program and attended the Colombia course on Practical Epidemiology and Indigenous Health in August 2013. She said "this experience was great in several aspects. The contact with the Wayuu people from La Guajira has been an incredible human experience, and the course provided the trainees with tools to develop multidisciplinary projects with epidemiological and social aspects. We often forget that Public Health challenges are multidimensional. Being blinded by our own field of expertise, we forget to look at the problem as whole. The training program helps us to reconnect with all these dimensions and opens our eyes to issues we would not even think of."



Genevieve Boily-Larouche during the training program's field visit to a Wayuu Community in La Guajira

Sumit Dutta is from New Delhi, India and is presently based in Bangalore, India where he has been working with the Karnataka Health Promotion Trust (KHTP) for the past three years. Sumit has a Bachelor in English Literature from the University of Delhi and a Master in Sociology from Indira Gandhi National Open University. After working for several years in the public health sector and with the sexual minority (Lesbian Gay Bisexual Transgender) community, he chose to pursue a PhD in Social Anthropology at Dr. K. N. Modi University, India under the supervision of Dr. Robert Lorway, University of Manitoba. Sumit's research project titled, "Following the Divine in a time of AIDS: Jogappas Confronts the HIV Epidemic in Karnataka" is an ethnographic study on the indigenous transgender community of India called the "Jogappa."



Sumit Dutta



Jesse Gitaka on top of La Piedra Del Peñol in Guatapé, Colombia

In 2013, Sumit joined the training program and attended two major courses which he found to be very rewarding experiences. “I highly appreciate the sincerity and inclusiveness the mentors and my fellow trainees have displayed. I felt so welcomed and included among the larger group, be it in Colombia or Canada. I am glad to have found some amazing friends. The IID&GHTP is one of its kind, whose strength and aspiration lie in its diversified discipline of study and it recreates and instills socio-scientific thinking and engages the mind to absorb and contribute knowledge.”

Jesse Gitaka is a PhD trainee from Bungoma County, Kenya. He completed a Master degree in Tropical Medicine from Nagasaki University, Japan and a Bachelor of Medicine and Bachelor of Surgery from the University of Nairobi. Jesse is currently based at Mount Kenya University, Thika, Kenya where he is a research fellow and lecturer. His PhD focuses on the surveillance of lumefantrine resistance in Kenya and correlation to artemether-lumefantrine clinical response. Before joining the training program Jesse also worked in the RTS, S Malaria vaccine Trials at KEMRI-Wellcome Trust, Kilifi, Kenya as an investigator and study physician.



Jesse Gitaka and Wbeimar Aguilar during the field visit to the Wayuu Community in La Guajira, Colombia

Upon completing his first year in the training program Jesse said “the program has been a major opportunity for me because it has offered international courses such as the Ecology of Infectious Diseases, in Winnipeg, Canada and the Practical Epidemiology and Indigenous Health course in Medellin, Colombia. Besides these courses, I have benefited immensely from the mentorship of Prof. Keith Fowke in refining my skills in grant writing. This, in addition to the multi-disciplinary interactions with basic, clinical and social scientists through exposure to forums such as the weekly journal club and monthly infectious minds meetings continues to spark my interest in the program.”

IID&GH Training Program's 2013 Graduates

This year there were 17 trainees who graduated from the IID&GH Training Program. Most of these trainees were from the first intake of trainees that started the program in 2009. We will miss them all very much and thoroughly enjoyed having them in the program. We wish them all well and best of luck in their future endeavors.

List of graduating trainees in 2013:

PhD Trainees

Winnie Apidi
Jennifer Juno
Cisily Meeme
Were Omenge
Michael Babu Raj
Meika Richmond
Zulma Rueda
Souradet Shaw
Alex Silaghi
Aida Sivro
Derek Stein
Yingfeng Zheng



Recent graduates of the IID&GH Training Program

Above: Meika Richmond, Catherine Card and Julie Lajoie during the 2010 EcoID course welcome reception

Bottom Left: Trainees of the first IID&GH Training Program Major Course, EcoID, 2010

Bottom Right: Zulma Rueda and Lyle McKinnon during the 2012 Kenya Course in Nairobi, Kenya





Medellin, Colombia



Satyanarayana and Dhanunjaya in Nairobi, Kenya for the major course



Laura Thompson and Genevieve Boily-Larouche on the Metro-cable in Medellin, Colombia



Frank Ndakala and Souradet Shaw in Medellin Colombia for the major course

RECRUITMENT

2013 Intake

Winnipeg, Canada Site
2 Basic Science trainees (PhD & PDF)
2 Social Science trainees (PhD)

Bangalore, India Site
2 Social Science trainees (PhD)

Nairobi, Kenya Site
2 Basic Science trainees (PhD)

Medellin, Colombia Site
1 Basic Science trainee (PhD)

LIST OF TRAINEES AND PROJECTS

PhD Trainees

Wbeimar Aguilar

Association of variants in vitamin D pathway and innate immune response genes with natural resistance to HIV-1 infection

Julie Ambia

Barriers and Facilitators of Adherence in User-Dependent Trials

Winnie Apidi

Nadia Musimbi Chanzu

The glycolysis pathway in HIV-1 resistance
Secretor status, FUT2 polymorphisms and the risk of infection by HIV and HPV in female sex workers in Kenya

Dhanunjaya Chintada

Interrelation between stigma, discrimination and impact on utilization of care and support services - A study among HIV seropositive Men having Sex with Men and Transgender (MSM-T) in Karnataka
A study on violence among women living with HIV/AIDS in Karnataka

Suresh S. Chitrapu

Elizabeth J. Cooper

Kallesh Danappa Jayappa

Culturally relevant HIV/AIDS prevention programming within Canadian Aboriginal context
The molecular mechanism of HIV-1 nuclear import: the role of HIV-1 integrase in targeting host nuclear import machinery and delivering viral cDNA into nucleus

Elsabe du Plessis

HIV vaccine acceptability among vulnerable populations in Kenya

TRAINEES AND PROJECTS, continued

PhD Trainees

Sumit Dutta	Following the divine in a time of AIDS: Jogappas confronts the HIV epidemic in Karnataka
Jesse Gitaka	Surveillance for artemether-lumefantrine clinical response, lumefantrine in vitro sensitivity and molecular markers of tolerance in currently circulating <i>Plasmodium falciparum</i> isolates in Kenya
Deepesh Gupta	Unintended pregnancies and risk of unsafe abortion: Men's perspective & involvement – A study among married males of Uttar Pradesh
Jennifer Juno	The role of genetic polymorphisms at the CD4 locus in HIV disease progression
Sajid Mahmood	Examining NK – DC crosstalk in NK differentiation and functional properties of NK cells
Cisily Meeme	Evaluation of drug resistance profiles and viral characteristics in HIV-1 viruses from infected patients before and after receiving antiretroviral therapy
Frank Ndakala	Molecular genetic analysis of antiretroviral therapy related adverse drug events (ADEs) in Kenya
Ifeoma Okwor	Regulation of secondary anti-Leishmania immunity
Robert Were Omenge	Linkage of innate and adaptive immunity in HIV-1 resistant women in Nairobi
Michael Babu Raj	PPTCT services: Are we reaching out? From a human rights perspective
Meika Richmond	Polyfunctionality and proliferation of CD8 ⁺ T cells in chronic and acute HIV infection
Zulma Vanessa Rueda	Epidemiologic and clinical characteristics of <i>Mycobacterium tuberculosis</i> in prisoners at four different jails, Colombia 2010-2012
Satyanarayana	Migration, mobility and HIV/AIDS: a comparative study of urban and rural female sex workers in Northern, Karnataka, India
Elnaz Shadabi	Identification and characterization of immunologically relevant T cell epitopes of HIV-1 Nef
Souradet Shaw	Understanding autoimmune diseases: combining traditional epidemiological techniques and complex systems approaches
Dan Alex Silaghi	Identification of virulence determinants in the 1918 Influenza Hemagglutinin (HA) and H1N1 flu
Aida Sivro	The role of IRF-1 polymorphisms in susceptibility to HIV-1 Infection
Melissa Smith	Heterogeneity in progression to AIDS: The role of antigen specific CD8 ⁺ T cells
Derek Stein	Mass spectrometry based characterization of HIV-1 resistance in the female genital tract



Trainees at Guatapé during the Colombia Course



Sumit Dutta, Satyanarayana, Kallesh Danappa Jayappa, Sajid Mahmood and Deepesh Gupta during the EcoID course



Trainees working together on a group activity for the EcoID course in Winnipeg, Canada



Jesse Gitaka, Were Omenge, Winnie Apidi, Julie Ambia, Nadia Chanzu and Frank Ndakala during the EcoID course



Genevieve Boily-Larouche, Suresh Sanjeeva and Laura Thompson enjoying the Colombian music in Guatemala, Colombia



Trainees in Bangalore, India during the major course



Dhanunjaya Chintada, Deepesh Gupta, Satyanarayana, and Sumit Dutta in Winnipeg, Canada for the EcoID course



Trainees: Sajid Mahmood and Nadia Chanzu during the 2012 Kenya Course

TRAINEES AND PROJECTS, continued

PhD Trainees

Natalia Taborda

Evaluation of genetic and immunological mechanisms involved in resistance to HIV-1 exhibited by chronically infected individuals who control viral replication without antiretrovirals

Laura Thompson

HIV epidemic diversity among high risk populations in Pakistan

Yingfeng Zheng

Functional role and molecular mechanism underlying the interplay of HIV-1 integrase with host cofactors

Post-Doctoral Fellow Trainees

Zhujun Ao

Investigation of the mechanism underlying anti-HIV action of R88-A3G: Development of a potent anti-HIV approach in primary CD4⁺ T cells and macrophages

Genevieve Boily-Larouche Longitudinal analysis of immune quiescence and the impact of sex work in HIV Exposed Seronegative (HESN) sex workers from Nairobi, Kenya

Kaveri Gurav

Vulnerabilities associated with migration of female sex workers (FSWs) in India

Krishnamurthy Jayanna Integrating HIV into general health systems; opportunities and challenges in Indian context

Shamshad Khan

Community-based ownership and uptake of future HIV vaccine programs among MSM and FSWs in India

Julie Lajoie

Mucosal immune activation in commercial sex workers

Lyle McKinnon

Effect of antiretroviral therapy on mucosal immunology in female sex worker cohorts

James Sainsbury

Characterization of a novel candidate gene for the HIV-1 resistance phenotype in the Pumwani sex worker cohort



Trainees: Elnaz Shadabi, Elsabe du Plessis, Souradet Shaw, Derek Stein and Laura Thompson in Medellin, Colombia

ACADEMIC PROGRAM

Four Countries, Two Weeks, One Goal...Knowledge Transfer

by Elnaz Shadabi and Lindsay Aboud

In the Ecology of Infectious Disease course, offered by the U of M's departments of Medical Microbiology and Community Health Sciences, students from four different countries came together from May 6 to 17, 2013 to better understand infectious diseases and their threat to global health with a more holistic view.

Participants in the course were PhD students and post-doctoral fellows from Kenya, India, Colombia, Newfoundland, British Columbia and Manitoba. Most were part of the International Infectious Disease and Global Health Training program of the Canadian Institute of Health Research (CIHR), however some students from the U of M who chose to take the course for credit.

Every morning and afternoon session consisted of a lecture presented by a U of M professor or expert, followed by a supplementary lecture given by a group of students, which often consisted of three people from three different countries. As well each session ended with a student-lead, group activity. The group activities included debates on hot current topics and creating skits to illustrate how different cultures would approach various health related scenarios. Every student was pushed outside of his or her comfort zone in an effort to participate in a discussion crucial to solve a global health related problem.

In fact, active and participatory role of students in learning and sharing their knowledge with others was another unique feature of the program. Sajid Mahmood, a PhD student from the department of immunology at the U of M described this as a "conductive learning environment," where there are "opportunities for everyone to actively participate."

The design of the course allowed for students to explore several important issues and topics together. Some of these topics



Trainees role playing during a group activity for the EcoID course



Trainees were split into teams to discuss a given topic during one of the group activities



Trainees: Satyanarayana, Sumit Dutta and Deepesh Gupta during lunch at the EcoID course



Trainees taking a break from the EcoID classes to enjoy a BBQ



Ifeoma Okwor, Nadia Chanzu, Sumit Dutta, Lindsay Aboud and Zack Marshall working on a group activity during the EcoID course

included dynamics of transmission of disease, vaccine and prevention strategies, the role that animal health plays in the health of humans, the role of the World Health Organization in dealing with new outbreaks, knowledge translation, culture and infectious disease and health research ethics. In addition to these, students were also exposed to several pressing issues related to the health of Indigenous peoples of Canada, such as overcrowding, poor housing and its impact on the spread of infectious diseases such as tuberculosis.



Dr. Carlos Rojas, Colombia Site Leader, during the Scientific Symposium at the Universidad de Antioquia

The experience of participating in this course has been a positive one for many students. "I will never forget the invaluable sacrifices, team spirit leadership and unwavering support that was demonstrated by both facilitators and trainees... I have not experienced this anywhere," said Frank Ndakala from Kenya.

Infectious Disease Epidemiology and Indigenous Health Training Course in Colombia

by Laura H. Thompson



The IID&GHTP at the International Indigenous Health Care Symposium in Riohacha, Colombia

In August 2013, sixteen PhD students and postdoctoral fellows from Universities in Manitoba, Kenya, India, and Colombia converged at the Universidad de Antioquia in Medellin, Colombia as part of the International Infectious Disease and Global Health (IID&GH) training program. Over the course of two and a half weeks, trainees received intensive training in epidemiology, academic writing, and indigenous health research. From August 8 to 9, the IID&GH training program held its 4th Annual Scientific Symposium, hosted by local program lead Dr. Carlos Rojas, Professor in the School of Public Health at the Universidad de Antioquia. The purpose of the symposium was to allow the trainees to have the opportunity to present their research and to learn about the research of their peers as well as the research of other PhD students affiliated with the Universidad de Antioquia. Beginning August 10, the trainees



The Biblioteca Espana and a suburb in the mountains of Medellin, Colombia

attended lectures and tutorials focusing on the fundamentals of epidemiology, data analysis and manuscript writing. Following in-depth lectures covering basic epidemiological techniques, the trainees had the opportunity to apply this new knowledge by analyzing data collected as part of a local tuberculosis study using STATA 11.0 software.



Above: Trainees and mentors of the Colombia Course during the Indigenous Health Care Symposium in Riohacha



Above: IID&GH Training Program in front of the Universidad de Antioquia during the Major Course in Medellín, Colombia

During the second week of the course (August 18-23), the trainees travelled to Riohacha, La Guajira, in the Northeastern part of Colombia. There the trainees attended a two day International Indigenous Health Care Symposium. Health Ministry representatives and experts in indigenous health from Colombia and Venezuela gave presentations about the opportunities and challenges of indigenous health research in their countries. Dr. Javier Mignone, University of Manitoba, gave a presentation about criteria and standards related to conducting appropriate research collaborations between indigenous organizations and universities. He also spoke of indigenous health in Canada on behalf of Dr. Marcia Anderson DeCoteau, a First Nations physician and assistant professor at the University of Manitoba. Dr. Carlos Rojas presented details of his HIV research in indigenous communities in Colombia.



Above: A Wayuu community the trainees visited in La Guajira, Colombia

The final part of the course involved site visits to rural indigenous communities of the Wayuu people of La Guajira in Northeastern Colombia. Groups of four to five trainees were warmly welcomed by these communities with traditional dance performances, food, conversations, and community tours. Trainees also observed the process of obtaining informed consent and the collection of data through interviews conducted as part of a maternal health survey. The data collected from these surveys were analyzed by the trainees and contextualized by observations made during the site visit. The following day the trainees presented their findings to each other and agreed to contribute to the preparation of a report to be presented to the communities.



Split screen shot of all the sites during the September 2013 Infectious Minds meeting

SCIENTIFIC DISCUSSIONS

The purchase of video conference equipment for each international site has enabled important scientific discussions to take place in real time and has allowed the smaller sites the benefit of “critical mass.” These sessions are called Infectious Minds and over the years numerous sessions have taken place allowing trainees and mentors from all four of CIHR’s research pillars and the four international training sites to work cooperatively to explore issues of international infectious diseases and global health.

Each month a trainee-selected topic is presented by a team of trainees from different pillars and training sites. The trainees also invite a guest speaker who is an expert in the field to present on the chosen topic and participate in the discussion. The Infectious Minds meetings are coordinated by Dr. Javier Mignone, a mentor of the training program and a past trainee. Below is a list of topics covered in 2013.

2013 Infectious Minds Meetings

January 17

Guest Speaker: Dr. Aaron Marshall

Presenters: Winnie Apidi, Krishnamurthy Jayanna, Ifeoma Okwor

Topic: How about B cells as therapeutic targets - Leukemia, lymphoma and lupus

February 14

Guest Speaker: Helen Fallding

Presenters: Jennifer Juno, Julie Lajoie, Nadia Chanzu

Topic: Translating Science into News: the process of science reporting

March 14

Guest Speaker: Manon D Fleury

Presenters: Kallesh Danappa Jayappa, Kaveri Gurav, Sajid Mahmood

Topic: Perspective on global climate change and its impact on changing patterns of infectious disease



Sajid Mahmood presenting during the March 2013 Infectious Minds meeting



Trainees and Mentors at the Winnipeg site during the March 2013 Infectious Minds meeting

April 11

Guest Speaker: Dr Marcia Anderson-DeCoteau
Presenters: Genevieve Boily-Larouche, Julie Ambia, Satyanarayana
Topic: The Politics Behind Global Health

June 20

Guest Speaker: Mr. Achal Prabhala
Presenters: Michael Babu Raj, Frank Ndakala, Sumit Dutta
Topic: Access to Health Care and Drugs: Critical Interventions

September 19

Guest Speaker: Dr. Charles Chungue
Presenters: Jesse Gitaka, Suresh Sanjeeva, Wbeimar Aguilar
Topic: Pioneering Research leading to Improved Treatment of Visceral Leishmaniasis

October 17

Presenters: Aida Sivro, Cisily Meeme, Deepesh Gupta
Topic: Malaria

November 14

Guest Speaker: Dr. Joanne Embree
Presenters: Laura Thompson, Meika Richmond, Natalia Taborda
Topic: Reproductive Health and Infectious Diseases

December 16

Guest Speaker: Dr. Gary Kobinger
Presenters: Derek Stein, Souradet Shaw, Elnaz Shadabi
Topic: Vaccination: What side are you on?



Cisily Meeme presenting during the October 2013 Infectious Minds meeting



Trainees listening to an Infectious Minds presentation



Aida Sivro presenting during an Infectious Minds meeting



Trainees and mentors during the Infectious Minds meeting at the Winnipeg Site

Practica: 2013 Report

The intention of the practicum portion of the Training Program, coordinated by Dr. John Wylie, is to expose trainees to a completely different type of research experience apart from their main research area and to foster interdisciplinary research. The practica are intended to last from four to twelve weeks and to be tailored to the specific goals, objectives and time lines of each trainee. The Program encourages every trainee to seek out a research practica site in order to reach their practicum goal. However, if this is not possible the Program will provide the trainee with a list of possible practica sites to choose from. Following completion of the practicum, the trainee will write a report and complete an evaluation form to provide feedback to the Training Program on their completed practicum experience.

In 2013, four trainees completed their practicum. A brief description of two are provided below:

Julie Lajoie completed her practicum at the National Collaborating Centre for Infectious Diseases (NCCID) and the Alliance Coordinating Office (ACO) from September - November, 2013. During her practicum with the NCCID, Julie helped to develop a report on influenza and influenza-like illnesses. This report will be used to develop knowledge translation pieces that target front line public health practitioners. At the ACO, Julie helped to plan and prepare three webinars on priority career development and HIV vaccine related topics.

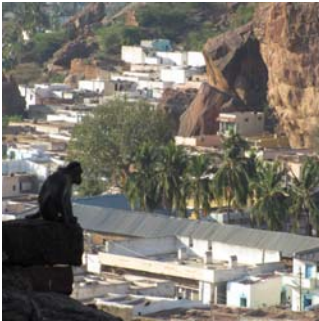
Satyanarayana, a PhD trainee from India was awarded an HIV Research Trust award which he used to visit Winnipeg, Canada from September - November, 2013 to complete his practicum at the Center for Global Public Health (CGPH), Department of Community Health Science (CHS), University of Manitoba. The two main objectives of his practicum were to establish networks and collaborations with researchers from CGPH and to expand his knowledge and skills in qualitative research methods. During his time in Winnipeg, Satyanarayana audited two qualitative research courses and a reading course in the Department of CHS, University of Manitoba. As well, Satyanarayana attended journal clubs in the Department of CHS and formed networks and collaborations which he can now use in this future career as a health researcher.

PROGRAM ADVISORY COMMITTEE

The IID&GH Training Program’s Program Advisory Committee (PAC) is composed of key stakeholders such as government, industry, community members, non-profit sector, academia, international partners and two of our trainees. The committee was struck in March 2010 and Dr. Gary Glavin, Associate Vice-President (Research) serves as the PAC Chair. The responsibilities of the PAC are to advise the Principal Investigator (Dr. Fowke), Core Committee (Drs. Wylie, Mignone, and Moses) and Program Coordinator (Ms. Natasha Hollett) of the program; provide recommendations; and give feedback with regard to the program goals, vision and responsibility. The first meeting of the PAC took place on May 12, 2010, the second on October 14, 2011, the third on January 29, 2013. The next PAC meeting is scheduled for January 13, 2014.



The Taj Mahal in Agra, Uttar Pradesh, India



A monkey overlooking a town in India

PLANS FOR 2014

From September 1-12, 2014 the IID&GH Training Program will be heading to Bangalore, India for the major course: Application of Program Science Approach in Planning, Implementing and Evaluating MNCH, HIV and TB Interventions in India, hosted by the India site leader Dr. Srinath Maddur.



A group of men playing cricket in the streets of India



One of Lord Shiva’s temples in Pattadakallu in Bagalkot district of Karnataka state



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- Faculty of Medicine
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University of Nairobi

University of Manitoba Centre for Global Public Health

St. John's Medical College

University of Winnipeg Global College

Infectious Immunology Research Interest Group



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Manitoba





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Canadian Institutes of Health Research (CIHR)
International Infectious Disease and Global
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