

LISA K. ALLEN-SCOTT, PhD

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A. PROFILE

Community-Based Health Research: My outstanding academic achievements paired with my rich research experience that spans from local to global has allowed me to create a number of important research and capacity building projects at the local and international level. From 2007-2014 I lead a community-based malaria diagnosis and prevention program in Tanzania that contributed to a 39.6% reduction in misdiagnosis at the local hospital. Since 2014 I have been leading multi-disciplinary and multi-sectoral research programs at both the community and workplace level to investigate upstream approaches for cancer prevention. In 2016 I was promoted to Senior Scientist for the Alberta Cancer Prevention Legacy Fund overseeing all community, workplace and individual/family cancer and chronic disease applied research.

Teamwork: My ability to create innovative research and evaluation projects fostered by a strong transdisciplinary team environment will allow me to obtain my goal of bridging the global to local gap and to become a leader in public health in Canada. My diverse background and field experience have developed my ability to act as a “transmitter” on transdisciplinary research teams.

Teaching: Through my continued involvement with teaching, mentoring and supervising students involved in the Bachelor of Health Sciences I have an important and unique ability to impact undergraduate researchers. I aim to ignite the passion for community level cancer prevention, participatory community based research and global approach to health in these students and to create individuals who are both culturally and research competent.

B. EDUCATION

Doctor of Philosophy

2014

Specialization: Population and Public Health

Community Health Sciences

University of Calgary, Calgary, AB

- Vanier Canada Graduate Scholar
- Dissertation: *“Public Health Interventions and Harmful Unintended Consequences: Towards a typology and understanding of underlying factors to inform intervention planning.”*

Master’s of Medical Biotechnology

2008

University of Calgary, Calgary, AB

- 1st Graduate with a 4.0 GPA
- Practicum: *“Improving Malaria Diagnosis in Tanzania: A social entrepreneurship approach to sustainability.”*

Bachelor of Science, Biology

2001

Specialization: Molecular Biology (With Distinction)

University of Lethbridge, Lethbridge, AB

- Semester exchange to Cameron University in Lawton, Oklahoma to play NCAA division II volleyball

C. LEADERSHIP POSITIONS

- 2017-2018 Senior Scientist Alberta Cancer Prevention Legacy Fund:** Senior scientist overseeing the innovation and rigor of interventions aimed to decrease cancer and chronic disease risk in individuals, workplaces and communities. Driving strategic decision making at an organizational level and designing shared measurement systems for collaborative impact.
- 2015-2018 Adjunct Assistant Professor Appointment at the University of Calgary:** Supervision of undergraduate honors thesis students, teaching of MDSC591 and various guest lectures across multiple topics.
- 2015-2018 Scientist Alberta Cancer Prevention Legacy Fund (Community and Workplace):** scientist guiding scholarship and implementation of upstream approaches to cancer prevention in Alberta communities and workplaces. Collaboration with implementation and academic stakeholders to develop community engaged scholarship opportunities for both academics and communities.

D. LEADERSHIP AND INVOLVEMENT IN UNIVERSITY COMMUNITY

KEY ACTIVITIES

- 2014 Global Health and International Partnerships/Institute for Public Health Seminar Series:** Development and organization of a weekly multi-disciplinary seminar series that discusses the core competencies for global health research in the context of ongoing research, education and capacity building initiatives.
- 2008-2014 Development and Teaching of Undergraduate and Graduate Level Courses:** Core Competencies for Global Health Research (MDSC507), Inquiry Techniques for Molecular Biology (MDSC408), Global Health Graduate Course for PGME and CHS, and lectures in a variety of courses based on my expertise.
- 2012-2014 Transdisciplinarity:** Through a successful UIGC grant I have been able to bring together a group of experts in the area of One-Health and transdisciplinarity in order to promote advocacy and put together a “tool box” for those interested in this research approach.
- 2010-2014 Canadian Coalition for Global Health Research (CCGHR):** not-for-profit organization board member and founding member and chair of the global health student and young professional network.
- 2006-2014 Supervisory Experience:** supervision and mentorship of 27 Bachelor of Health Sciences summer, independent study and honors thesis students in global health.
- 2013 Global Health 101:** Development of an inter-faculty symposium on global health research, programs and service at the University of Calgary.
- 2007-2014 Community-Based Health Research Development:** Development of the multi-disciplinary research project, “Applicability of Rapid Diagnostic

Tests for Diagnosis of Malaria as compared to Microscopy in the Ngorongoro Conservation Area, Tanzania”.

2007-2010 **Capacity Building:** Development of a short course on molecular biology and bioinformatics in Addis Ababa, Ethiopia.

2006 **Technology Transfer:** Polymerase Chain Reaction (PCR) enzyme preparation methods transferred to Ethiopian researchers at the Armauer Hansen Research Institute.

E. DEVELOPMENT, IMPLEMENTATION AND EVALUATION OF COMMUNITY-BASED RESEARCH PROGRAMS

Alberta Healthy Communities Approach (AHCA) for Upstream Cancer Prevention

Alberta Cancer Prevention Legacy Fund (ACPLF)

Calgary, Alberta

2014 – ongoing

- **Leading** the adaptation and in community testing of the CDC-Community Health Assessment and Group Evaluation (CHANGE) model for assessment of supportive community environments for cancer prevention
- **Leading the development of a Comprehensive Community Cancer Prevention Guide** to support the implementation of upstream action for cancer prevention at the community level
- **Leading the development of a community based online hub** that will serve to increase capacity and knowledge translation of successful community level cancer prevention initiatives
(www.albertahealthycommunities.albertapreventscancer.ca)
- **Leading all mixed-methods research and evaluation** components of the research design
- **Developing strong stakeholder relationships** to support the sustainability of these community initiatives
- **Collaboration** with key First Nations, Metis and Inuit (FNMI) stakeholders to investigate and generate contextually and culturally appropriate adapted community comprehensive cancer prevention and screening tools and resources

A sustainable approach to workplace health promotion and cancer prevention in Alberta: Better Health Better Business (BHBB)

Alberta Cancer Prevention Legacy Fund (ACPLF)

Calgary, Alberta

2014 – ongoing

- **Developing** an Alberta specific business case and return on investment tracking for workplaces
- **Leading** the team for successful implementation and evaluation of a comprehensive workplace health program that focuses on environmental factors that influence the success of individual workplace health programs
- **Implementing an innovative research model** that tests the impact of a facilitated workplace health program versus an online only model to better make the business case for workplace health support and programming in Alberta
- **Developing Innovative** approaches to evaluating workplace health programs that are feasible and understandable in collaboration with international workplace health leaders

Comprehensive Cancer Prevention and Screening at the Alberta Health Services Zone Level: the Case of the North Zone

Alberta Cancer Prevention Legacy Fund (ACPLF)

Calgary, Alberta

2014 – ongoing

- **Collaborative scientific lead** for the development of a theoretical and practical model that can be used to develop zone-specific comprehensive cancer prevention and screening plans
- **Development of a multi-disciplinary team** capable of synthesizing required types of knowledge and contributing required systems level knowledge for successful planning and implementation
- **Collaborative development of the research and evaluation model** to support the development of guidelines that can be scaled up to meet the needs of other zones in Alberta

Certificate of Recognition: The Optional Health Element for Alberta Workplaces

Alberta Cancer Prevention Legacy Fund (ACPLF)

Calgary, Alberta

2014 – 2018

- **Collaboration** with implementation teams, certifying partners and Partnerships in Injury Reduction to develop, pilot test and standardize an audit tool for assessment of the Optional Health Element in Alberta workplaces
- **Development of the evaluation model** to improve the quality and sustainability of the audit tool and supporting documentation

Be Sunsible: a Workplace Sun Safety Initiative

Alberta Cancer Prevention Legacy Fund (ACPLF)

Calgary, Alberta

2015 – 2018

- **Leading** the adaptation of current Be Sunsible content and online platform to reflect current evidence and integration with National Sun Safety programs
- **Implementing a research and evaluation model** that will examine the impact of the program at both the supportive environment and individual outdoor worker levels
- **Collaborating** with key stakeholders in the area of sun safety to improve the reach, adoption and maintenance of the Be Sunsible Program

Understanding harmful unintended consequences of a community-based water and sanitation health promotion program in rural Tanzania (Endulen, Tanzania).

University of Calgary and Catholic University of Health and Allied Sciences (CUHAS) in Mwanza, Tanzania.

2014 – 2016

- **Lead an innovative stakeholder engagement process (“think tank”)** on the potential harmful unintended consequences of a water and sanitation community-based health promotion campaign and facilitated the development of strategies for harm mitigation.
- **Identify and convene** a University of Calgary (U of C) and a Tanzania (Endulen area) “think tank” that used systems thinking strategies and unintended consequence theory to identify potential harmful consequences and develop participatory strategies to mitigate them
- **Methods include:** community engagement, group interview/meeting facilitation, evaluation of qualitative outcomes and knowledge translation.

Development of an innovative "How-To" model for international One-Health transdisciplinary health research initiatives (Calgary and Switzerland)

University of Calgary, Swiss Tropical and Public Health Institute and Aberswyth University

2011-2014

- **Facilitated the development of an initiative** that would bring together leaders with extensive experience in international transdisciplinary research initiatives in order to create and refine a globally accessible "How-To" model for successful One-Health transdisciplinary research at the local and global level.
- Methods include: scoping review of the literature, organization of a 3-day workshop and development of an advocacy paper to call for universities to build capacity for One-Health transdisciplinary research.

Community-Based Sustainable Diagnosis and Prevention of Malaria

University of Calgary and Catholic University of Health and Allied Sciences (CUHAS) in Mwanza, Tanzania.

2007 - 2014

- **Research capacity building** using a social entrepreneurship approach for decision-making at a rural hospital in Tanzania
- **Lead the Development, Implementation and Evaluation** of a quality control program for improving the laboratory diagnosis of malaria and other acute febrile illnesses
- **Lead the development, Implementation and Evaluation** of community-based health communication campaigns focusing on malaria prevention
- **Supervision of undergraduate summer students** and project design for incoming Master's of Biomedical Technology graduate students
- Methods include: social entrepreneurship; development of standard operating procedures; quality control evaluation for sensitivity, specificity and misdiagnosis proportion; focus groups and one-on-one interviews

Molecular Diagnostics Capacity Building

University of Calgary and the Armauer Hansen Research Institute in Addis Ababa, Ethiopia

2006-2010

- Knowledge transfer of molecular biology techniques to researcher's at AHRI through **development of short course design and delivery**
- Travel to Ethiopia to gain an understanding of disease surveillance mechanisms and the feasibility of implementing molecular diagnostics
- **Supervision of summer students** both in the laboratory and in the field
- **Supervision of students for manuscript preparation** following international research experience

F. TEACHING AND MENTORING

Bachelor of Health Sciences Program

2015

Sessional Instructor

University of Calgary, Calgary, AB

- Instruction of MDSC591 Global Health, One Health for 4th year students
- Development of an interactive seminar style course that promotes discussion and critical thinking amongst the students
- Unique evaluation methods for assessing students, including a final portfolio presentation to summarize and critically analyze topics included in the course from their area of specialization.

Post-Graduate Medical Education

2014

University of Calgary, Calgary, AB

- Contract for the development of a global health social entrepreneurship crowd funding initiative. Operating policies and procedures were developed that outline the ethical/legal requirements and the selection, implementation and evaluation process
- Contract for the development of global health curriculum for post-graduate medical trainees and Community Health Sciences graduate students. Learning objectives focused on developing global relationships, communication, core competencies for global health and the development of crowd funding/traditional grants for collaborative projects between the University of Calgary and Catholic University of Health and Allied Sciences (CUHAS) in Mwanza, Tanzania

Global Health Program

2006-2014

Bachelor of Health Sciences Program

University of Calgary, Calgary, AB

- Development of international research projects and short course delivery
- Supervision and mentorship of undergraduate students (see complete list of students in section K)
- Organization of field work and implementation procedures for research and course delivery
- Design and delivery of a "Student Development and Field Preparation" course (MDSC507)
- Public relations for promoting this emerging program
- Grant preparation and knowledge translation of research

Graduate Teacher's Assistantship

2007-2014

Bachelor of Health Sciences Program

University of Calgary, Calgary, AB

- Development of curriculum for MDSC507: Core competencies in Global Health and key lecturer and course organizer
- Various lectures given in MDSC408 and HSOC 591 on areas of expertise: mixed-methods, unintended consequences, population and public health and malaria.
- Preceptor for MDSC508: Honors thesis course
- Teaching laboratory technique and theory for MDSC408 which is a research intensive laboratory based course
- Preparation of grades for assignments and laboratory notebooks

**Volunteer Laboratory Instructor
Let's Talk Science**

2004-2009

University of Calgary, Calgary, AB

- Teaching the basics of molecular biology, cell culture and immunology to high school students in an interactive laboratory based setting
- Coordination of PCR set-up, gel electrophoresis and microscopic visualization of cell culture
- Encouragement to new volunteers to actively engage in teaching students

G. OTHER RESEARCH EXPERIENCE

**Research and Teaching Laboratory Manager
Bachelor of Health Sciences Program**

2004-2009

University of Calgary, Calgary, AB

- Design and implement curriculum for Inquiry V and VI molecular biology techniques courses
- Supervise teacher's assistants to ensure they understand material, techniques and teaching style
- Involvement in an award winning student iGEM project focusing on the creation of motile *Escherichia coli* strains in response to chemo attractants
- Designed layouts, ordered equipment and set up laboratories to meet the needs of molecular biology, cell culture, physiology and histology courses
- Maintain laboratory functionality by monitoring inventory, maintaining equipment and overseeing chemical, bacterial and stock solution inventory
- Manage the operational budget for all courses, general inventory and student projects

**Diabetes Laboratory Research Assistant
Dr. Pere Santamaria**

2001-2004

University of Calgary, Calgary, AB

- Responsible for identification and care of diabetic murine animals
- Reliable genotype results generated via PCR and results communicated through presentations and Microsoft Excel database maintenance
- FACS profile interpretation to determine specific genotypes of transgenic mice
- Sequence analysis of a cDNA library in order to determine similarities between strains of transgenic mice

**Student Research Assistant
Dr. Lyle Rhode**

1997-2000

Agriculture and Agri-Food Canada, Lethbridge, AB

- Collected and processed samples for nutrition experiments with bovine species
- Evaluated fiber and nitrogen content analysis of feed, bolus, duodenal and fecal matter
- Organization of large data sets into Microsoft Excel spreadsheets

H. IN PROGRESS, SUBMITTED AND PUBLISHED PEER-REVIEWED ARTICLES

Allen-Scott, L.K., S. Bastien, J.M. Hatfield and M. Manyama. 2016. **Consideration of harmful unintended consequences during planning and implementation of project SHINE in Tanzania using a “think tank” approach.** Submission pending to Implementation Science

Nyanza, E.C., O. Jahanpour, J.M. Hatfield, F. van der Meer, L.K. Allen-Scott, E. Konje, K. Orsel and S. Bastien. 2016. **Access, availability and utilization of sanitation facilities among Maasai communities in the rural areas of northern Tanzania: An application of the Geographical Information System in Public Health.** Submitted to Tanzania Journal of Health Research

Allen-Scott, L.K., J.M. Hatfield, L. McIntyre and L. McLaren. 2015. **Considering unintended consequences of public health intervention using the population health approach and Merton’s framework as a lens: a malaria example.** Critical Public Health. DOI: 10.1080/09581596.2014.980397

Allen-Scott, L.K., Buntain, J.M. Hatfield, A. Meisser and C. Thomas. 2015. **Why universities need to build capacity for transdisciplinary research approaches to address complex health issues at the animal-human-ecosystem interface.** Academic Medicine, DOI: 10.1097/ACM.0000000000000639

Buntain, B., L. K. Allen-Scott, M. North, M. Rock and J. M. Hatfield. 2015. **Enabling Academic One-Health Environments.** In: Zinsstag, J., Schelling, E., Waltner-Toews, D., Whittaker, M. and Tanner, M. (eds.) One Health: The Theory and Practice of Integrated Health Approaches. CAB International, Wallingford, UK.

Allen-Scott, L.K., J.M. Hatfield and L. McIntyre. 2014. **A scoping review of unintended harm associated with public health interventions: Towards a typology and an understanding of underlying factors.** International Journal of Public Health. 59(1): 3-14. *Editors Choice Award.

Min, B., L. K. Allen-Scott and B. Buntain. 2013. **Transdisciplinary research for complex one-health systems: a scoping review of key concepts.** Preventative Veterinary Medicine. 112(3-4): 222-229

Allen, L.K., J. Hatfield and M. Manyama. 2013. **Reducing microscopy-based malaria misdiagnosis through a participatory intervention in a low-transmission and low-resource area of Tanzania.** Tanzanian Journal of Health Research. 15:1.

Allen, L.K., J.M. Hatfield, G. DeVetten, J.C. Ho and M. Manyama. 2011. **Reducing malaria misdiagnosis: The importance of correctly interpreting ParaCheck Pf “faint test bands” in a low transmission area of Tanzania.** BMC Infectious Diseases. 11: 308.

Allen, L.K., Hetherington, E., Manyama, M., Hatfield, J.M. and G. van Marle. 2010. **Using the social entrepreneurship approach to generate innovative and sustainable malaria diagnosis interventions in Tanzania: a case study.** Malaria Journal 9:42.

I. ABSTRACTS AND CONFERENCE PRESENTATIONS

*All conference presentations where Dr. Allen-Scott is the first author indicates that she was the presenting author and the primary individual responsible for this research.

*All of the conference presentations listed here where Dr. Allen-Scott is not first author are a result of mentorship and supervision of Bachelor of Health Sciences students during research initiatives in Ethiopia and Tanzania (2006-2013). This highlights Dr. Allen's ability to successfully teach research and dissemination skills to undergraduate students in order to produce research that was highlighted at an international conference on global health.

Allen-Scott, L.K., S. Bastien, J.M. Hatfield and M. Manyama. **Consideration of harmful unintended consequences during planning and implementation of project SHINE in Tanzania: A Case Study.** Canadian Society for International Health: 21st Canadian Conference on Global Health. Ottawa, Ontario, Canada. November 3, 2015 Oral Presentation.

Allen-Scott, L.K., E. Nyanza, M. Manyama, F. van der Meer, K. Orsel and J.M. Hatfield. **The evolution of a transdisciplinary One-Health research-intensive field-school in Tanzania: A case study.** Canadian Society for International Health: 21st Canadian Conference on Global Health. Ottawa, Ontario, Canada. November 3, 2014. Poster Presentation.

Allen-Scott, L.K., B. Buntain, J.M. Hatfield, A. Meisser and C.J. Thomas. **Trans-disciplinary institutional and individual capacity building for one health and global health research.** 2nd Global Risk Forum One Health Summit. Davos Platz, Switzerland. November 16-20, 2013. Oral Presentation.

Allen-Scott, L.K., J.M. Hatfield, L. McIntyre and T. Donnon. **Unintended consequences of public health interventions: foundations for a comprehensive explanatory framework.** Canadian Society for International Health: 20th Canadian Conference on Global Health. Ottawa, Ontario, Canada. October 27-29, 2013. Poster Presentation.

Allen-Scott, L.K., J.M. Hatfield and T. Donnon. **Examining Merton's mechanisms of unanticipated consequences for obesity public health policies and programs: Foundations for an explanatory framework.** Campus Alberta Student Conference on Health: Banff. September 6-7, 2013. Oral Presentation. Second Place Award.

Cheuk, S., L.K. Allen-Scott, M. Manyama, E. Charles, S. Bastien and J.M. Hatfield. **A participatory awareness raising initiative: Uncovering local perceptions of alternate causes of acute febrile illness in rural Tanzania.** Campus Alberta Student Conference on Health: Banff. September 6-7, 2013. Poster Presentation. Fourth Place Award.

Quach, K., L.K. Allen-Scott, E. Charles, M. Manyama and J.M. Hatfield. **If its not malaria, what is it? A retrospective analysis of alternate diagnoses for acute febrile illness in an environment of decreasing malaria misdiagnosis in rural Tanzania.** Campus Alberta Student Conference on Health: Banff. September 6-7, 2013. Poster Presentation.

Allen-Scott, L.K. and J.M. Hatfield. **Examining Merton's theory of unanticipated consequences for public health interventions: consciousness raising and the**

potential for anticipation. Canadian Student Health Research Forum: Winnipeg. June 4-6, 2013. Poster Presentation. Silver Medal Winner.

Allen, L.K., J.M. Hatfield, L. McIntyre and L. McLaren. **Conceptualizing clinical practice guidelines as population health interventions: Insights into classification criteria for addressing complex health issues.** Canadian Society for International Health: 19th Canadian Conference on International Health. Ottawa, Ontario, Canada. October 20-23, 2012. Oral Presentation.

Min, B., Allen, L.K., Ho, J. and J.M. Hatfield. **An evaluation of the use of Rapid Diagnostic Tests in a rural hospital in Tanzania.** Canadian Society for International Health: 19th Canadian Conference on International Health. Ottawa, Ontario, Canada. October 20-23, 2012. Poster Presentation

Westwood, E., L.K. Allen and J.M. Hatfield. **A realist review of insecticide-treated net public health interventions: Insights into the importance of context and theory.** Canadian Society for International Health: 19th Canadian Conference on International Health. Ottawa, Ontario, Canada. October 20-23, 2012. Poster Presentation.

Allen, LK, DeVetten, G., Hatfield, J.M., Manyama, M., Adams, N. and C. Magori. **A multi-disciplinary approach to understanding and improving treatment of malaria at a remote rural hospital in the Ngorongoro Conservation Area, Tanzania.** Canadian Conference on International Health. October 25-28. 2009. Poster Presentation.

Ho, J., Manyama, M., Allen, L.K, Hatfield, J.M and G. DeVetten. **The process of building capacity for accurate malaria diagnosis at a rural hospital in Tanzania: A foundation for sustainable research.** Canadian Conference on International Health. October 25-28. 2009. Poster Presentation.

Yip, J. C., Allen, L. K.; Hatfield, J. M. **Understanding barriers and enablers to the utilization of PCR in Ethiopia: The perspectives of local stakeholders.** Canadian Conference on International Health. October 25-28. 2009. Poster Presentation.

Navia, D., Allen, L.K., Hatfield, J.M. and E. Hetherington. **An Investigation of counseling practices for parents and caregivers of Children Living with HIV/AIDS in Addis Ababa, Ethiopia.** Canadian Conference on International Health. October 25-28. 2009. Poster Presentation.

Fradgley, E., Allen, L.K. Pasiciel, J. Ho, J., McNeill. S., Hatfield, J.M., Manyama, M., and C. Magori. **Issues in the development and translation of cross cultural questionnaires as related to malarial health literacy and education.** Canadian Conference on International Health. October 25-28. 2009. Poster Presentation.

McNeill, S., Allen, L. K., Hatfield, J.M., Hetherington, E., Manyama, M. and C. Magori. **Trends in the prevalence of herbal toxicity among patients accessing health care at a remote rural hospital in the Ngorongoro Conservation Area, Tanzania.** Canadian Conference on International Health. October 25-28. 2009. Poster Presentation.

Pasiciel, J., Fradgley, E., Allen, L.K. and J.M. Hatfield. **Testing a Rapid Diagnostic Test for Malaria on Rural Outreach Clinics in Tanzania: A Feasibility Study.** Canadian Conference on International Health. October 25-28. 2009. Poster Presentation.

Allen, L.K. and E. Hetherington. **Approaches to Global Health Research: Six Core Competencies for Success.** Health Research Methods Conference. April 30 – May 1. 2009. Workshop.

Niewola-Staszkowski, C., Hatfield, J.M and L.K. Allen. **Undergraduate Leadership Development for Global Health Research.** Canadian Conference on International Health. October 26-29. 2008. Poster Presentation.

Ho, J., Hatfield, J.M., Allen, L.K, Manyama, M., Adams, N, Magori, C. and Hallgrimsson, B. **Determining the Factors that Influence Physician Decision-Making at a rural Hospital in the Ngorongoro Conservation Area, Tanzania.** Canadian Conference on International Health. October 26-29. 2008. Poster Presentation.

Badenduck, L. Allen, L.K., Hatfield, J.M. Gedamu, L., van Marle G and W.A. Hutchins. **International Short Course Design and Evaluation.** Canadian Conference on International Health. October 26-29. 2008. Poster Presentation.

Powell, C., Thomas, A., Birks, L., Allen, L.K., Hatfield, J.M., Magori, C., Adams, N., Musiba, C., Manyama, M. **Evaluating the process of community engagement and how knowledge, attitudes and beliefs of the Maasai influence HIV/AIDS care seeking behavior.** Canadian Conference on International Health. October 26-29. 2008. Poster Presentation.

Yip, J., Allen, L.K. and J.M. Hatfield. **Investigating the Feasibility of Implementing and Utilizing Polymerase Chain Reaction (PCR) for Diagnosis of Infectious Diseases at ALERT, Addis Ababa, Ethiopia.** Student Leadership Conference. November. 2008. Poster Presentation.

J. COURSE INSTRUCTION

MDSC591 (Winter Semester)

2015

- Sessional instructor for the One Health and Global Health Capstone Course
- Guide students to assess and analyze the contribution of their specific social science concentration to global health research.
- Through critical discussion increase the students appreciation of the complexity of health research in a developing and developed country context while deepening their understanding of the need for multidisciplinary teams to solve complex health problems

MDSC508 (Fall and Winter Semester)

2011-2014

- Preceptor for the BHSc undergraduate honors thesis course
- Provide expertise on epidemiological and social science methods to students
- Ensure students understand the appropriateness and have a clear understanding of chosen methods
- Ensure student research is rigorous and statistical and qualitative analyses are accurate

MDSC 507 (Fall and Winter Semester)

2007-2014

- Core Competencies for Global Health Research
- Independent study course with direct supervision of multiple undergraduate students working on preparation for international research and also knowledge dissemination following international research

MDSC408 (Fall Semester)

2007

- Teacher's Assistant (12 hours per week)
- Hands on biomedical laboratory course focusing on microbial and molecular biology techniques
- Responsible for delivering small group lectures and one on one teaching

K. GRANTS AND AWARDS

Cancer Prevention Research Opportunity (CPRO) 2016

- Collaborative member of the successfully funded level 1 proposal, "The Alberta Cancer Exercise "ACE" Program for Cancer Survivors: Supporting Community-based Exercise Participation for Health Promotion and Secondary Cancer Prevention".
- Collaborative member of the successfully funded level 1 proposal, "Impact of Benchmarking Food Environments on Policies and Actions to Promote Healthy Eating for Reducing Cancer Risk."

University of Calgary International Project Grant 2014

- Building capacity for considering harmful unintended consequences of a sanitation intervention in Tanzania: the role of the transdisciplinary "think tank".
- Amount = \$12,370

Achievers in Medicine Award of Excellence 2012-2014

- To support the ongoing research efforts of previous Achievers in Medicine award winners who hold an external funding award (CIHR, SSHRC or NSERC)
- Amount = \$3500

CIHR Michael Smith Foreign Supplement 2012

- International learning experience in Tanzania with a focus on examining the role of community capacity in the uptake and sustainability of health promotion programs.
- Amount = \$5800

University of Calgary International Project Grant 2011

- Development of an innovative "How-To" model for international transdisciplinary health research initiatives
- Amount = \$10,100

Vanier Canada Graduate Scholarship 2011-2014

- Awarded by the Canadian Institute for Health Research to doctoral students who demonstrate strong leadership skills and high standards of scholarly achievement.
- Amount = \$50,000 per year for up to 3 years

Alexa W. Church Scholarship in Medical Sciences 2010

- Special Awards and Bursaries Competition, University of Calgary
- Award made solely on academic excellence
- Amount = \$7,500
-

University of Calgary Graduate Travel Award 2009

- Graduate Conference Travel Grant: 16th Annual Canadian Conference on International Health. Health Equity: Our Global Responsibility. Ottawa, Canada, October 25-28, 2009
- Amount = \$1552.00

Achievers in Medicine Entrance Scholarship (AIMS) 2009

- PhD Scholarship
- Faculty of Medicine, University of Calgary
- Amount = \$25,000

MBT Best Practicum Award 2008

- Award winner for the best practicum for the Master's of Medical Biotechnology Program at the University of Calgary
- Amount = \$1000

University of Calgary International Project Grant 2008

- Molecular Laboratory Diagnostics in Ethiopia: Using Short-Course Education as a Springboard.
- Amount = \$9500

Government of Canada 1996

- Full Alexander Rutherford Scholarships (1996)
- Governor General's Award of Excellence (1996)

University of Lethbridge 1996

- University of Lethbridge Entrance Scholarship (1996)
- Member of the University of Lethbridge Dean's List (1996-2000)

L. INVOLVEMENT IN ACADEMIC COMMUNITY

Mentoring, Teaching and Supervisory Experience

- 2015-2016 **Supervisory Experience:** Co-supervisor of Erike Friebe (BHSc honors thesis student) on a project entitled, "Agents of Global Health Change: A Realist Review and Case Study Exploration of Young Peoples Capacity to Promote Health in Low and Middle Income Countries".
- 2014 - 2015 **Supervisory Experience:** Co-supervisor of Eniola Salami (summer student) working on a global health policy and harmonization project. **Impact:** Student development in global health competency and a deeper understanding of the Canadian policy context.
- 2012-2013 **Supervisory Experience:** Co-Supervision of Bohyung Min (summer student) working on the Transdisciplinary project. **Impact:** Development of a scoping review for publication in a peer-reviewed journal.
- 2010-2013 **Mentoring:** Mentorship of Bachelor of Health Sciences summer students in Tanzania (Kimberly Quach, Samantha Cheuk, Shuaib Jogiat, Erica Westwood, Adam Chernick, Elizabeth Fradgely and Danielle Cyr). **Impact:** supervision prior to departure and during field research provided students knowledge on research design, methodology, analysis and dissemination methods

- 2008-2013 **Teaching:** Teaching Assistant for MDSC 507: Core competencies for Global Health Research. Teaching Assistant for MDSC408: Inquiry techniques for molecular biology. **Impact:** course curriculum design, lecturing and working one-on-one with students.
- 2011-2012 **Supervisory Experience:** Co-Supervision of Erica Westwood (honors thesis student, Bachelor of Health Sciences). **Impact:** Development of a realist review for publication in a peer-reviewed journal.
- 2010-2011 **Supervisory Experience:** Co-Supervision of Shayna McNiell (honors thesis student, Bachelor of Health Sciences). **Impact:** development of research objectives, appropriate methodology, analysis strategies, effective writing and communication skills.
- 2006-2009 **Mentoring:** Mentorship of eighteen Bachelor of Health Sciences summer students in Tanzania and Ethiopia (Julianne Yip, Daniela Navia, Shayna McNiell, Jennifer Pasiciel, Jeremy Ho, Lucas Badenduck, Cvett Trypknov, Devon Livingstone, Giselle DeVetten, Carolina Niewola, Alisha Seller, Chris Powell, Karim Mohammed, Vanessa Potok, Jason Bau, Gwynevere Davies, Caroline Turner and Meggie Livingstone).
Impact: preparation of students for teaching a molecular biology course in Ethiopia and ensuring students have a clear understanding of research design, methodology, analysis and dissemination methods for malaria and HIV/AIDS research in Tanzania. Ten international conference presentations resulted from this work.

Specific Details: Mentoring Bachelor of Health Sciences Students for International Research and Capacity Building Projects (Tanzania/Ethiopia)

- 2014 **Eniola Salami.** Summer Student: Global health policy: how is global health expressed within academic institutions?
- 2013 **Kimberly Quach.** Summer Student: If it is not malaria, what is it? A retrospective investigation of alternate diagnoses for febrile illness in an environment of decreasing malaria misdiagnosis.
- 2013 **Samantha Cheuk.** Summer Student: If it is not malaria, what is it? Consciousness raising in a rural and remote community to other causes of acute febrile illness.
- 2012 **Bohyung Min.** Summer Student: An examination of current frameworks for transdisciplinary research in One Health.
- 2012 **Erica Westwood.** Summer Student: Evaluating a community based malaria health promotion intervention in a remote and rural community of Tanzania: the importance of community capacity.
- 2012 **Shuaib Jogiat.** Summer Student: A qualitative analysis of the TNVS in the Ngorongoro Conservation Area, Tanzania.
- 2012 **Bohyung Min.** Summer Student: An evaluation of the use of Rapid Diagnostic Tests in a remote and rural hospital in Tanzania: Implications for accurate malaria diagnosis.

- 2011-2012 **Erica Westwood.** Honors Thesis: A realist review to examine context, mechanism and outcome configurations of insecticide treated net interventions in order to build a foundation for a future intervention in rural Tanzania.
- 2011 **Erica Westwood.** Summer Student: Understanding community malaria knowledge and prevention methods as a foundation for a future public health intervention in rural Tanzania
- 2011 **Adam Chernick.** Summer Student: Brucellosis as an alternative diagnosis to Malaria at a rural hospital in Tanzania.
- 2010-2011 **Shayna McNiell.** Honors Thesis: An integrative review of the harms, benefits, and situational factors associated with the presumptive treatment of suspected malaria infections in Sub-Saharan Africa
- 2010 **Erica Westwood.** Summer Student: Patient level characteristics as determinants of malaria knowledge at a rural hospital in Tanzania
- 2010 **Adam Chernick.** Summer Student: An Evaluation of the Accuracy and Health Provider Perceptions of Malaria Rapid Diagnostic Tests at a Rural Hospital in Tanzania.
- 2009-2010 **Elizabeth Fradgely.** Summer Student and Independent Study: Issues in the development and translation of cross-cultural questionnaires as related to malarial health literacy and education.
- 2009-2010 **Olivia McCreary.** Honors Thesis: A comparative economic analysis of malaria testing in Tanzania: upgrade microscopy or use ParaCheck Pf?"
- 2009 **Julianne Yip.** Summer Student: Understanding barriers and enablers to the utilization of PCR in Ethiopia: The perspectives of local stakeholders
- 2009 **Daniela Navia.** Summer Student: An Investigation of counseling practices for parents and caregivers of Children Living with HIV/AIDS in Addis Ababa, Ethiopia.
- 2009 **Shayna McNiell.** Summer Student: Trends in the prevalence of herbal toxicity among patients accessing health care at a remote rural hospital in the Ngorongoro Conservation Area, Tanzania.
- 2009 **Jennifer Pasiciel.** Summer Student: Testing a Rapid Diagnostic Test for Malaria on Rural Outreach Clinics in Tanzania: A Feasibility Study.
- 2009 **Lucas Badenduck.** Summer Student: International Short Course Design and Evaluation.
- 2009 **Cvett Trypknov and Devon Livingstone.** Summer Students: Capacity building for molecular biology at the Armauer Hansen Research Institute, Ethiopia.
- 2008-2009 **Jeremy Ho.** Summer Student: Determining the Factors that Influence Physician Decision-Making at a rural Hospital in the Ngorongoro Conservation Area, Tanzania.

- 2008 **Giselle DeVetten.** Summer Student and Independent Study: Evaluating three Rapid Diagnostic Tests for Malaria at a remote rural hospital in Tanzania
- 2008 **Carolina Niewola.** Summer Student: Undergraduate Leadership Development for Global Health Research
- 2008 **Alisha Seller.** Summer Student: Capacity building for molecular biology at the Armauer Hansen Research Institute, Ethiopia
- 2008 **Christopher Powell.** Summer Student and Independent Study: Evaluating the process of community engagement and how knowledge, attitudes and beliefs of the Maasai influence HIV/AIDS care seeking behavior
- 2007 **Karim Mohammed.** Summer Student and Independent Study: Capacity building for accurate malaria diagnosis in Sub-Saharan Africa
- 2007 **Vanessa Potok.** Summer Student and Independent Study: Five principles for global health research partnerships: a guide for students
- 2007 **Jason Bau and Gwenivere Davies.** Summer Students: Capacity building for molecular biology at the Armauer Hansen Research Institute, Ethiopia
- 2006 **Meggie Livingstone and Caroline Turner.** Summer Students: Transferring Polymerase Chain Reaction Enzyme Technology in Ethiopia

M. PERSONAL ACHIEVEMENTS: *Social Entrepreneurship and Athletics*

- 2003-2014 Rally Pointe Competitive Womens/Co-ed Volleyball
- 2010 Published manuscript on social entrepreneurship in the Malaria Journal
- 2002-2009 Ragazze Women's Soccer Team. Elected as team captain (2004-2006)
- 1998 NCAA Division II: Cameron University Volleyball. Full Recruitment Scholarship.

N. COMMUNITY OUTREACH AND VOLUNTEERISM

Global and Local Experience

- 2012-2016 Tanzania Girls Voice Development Fund Co-Chair
- 2012-2016 Canadian Coalition for Global Health Research (CCGHR) Student Board Member
- 2010-2011 Canadian Coalition for Global Health Research (CCGHR) Graduate Student Recruitment Leader (U of C) - Volunteer
- 2010-2011 Canadian Coalition for Global Health Research (CCGHR) Partnerships and Networking Research Group - Volunteer
- 2007-2010 Capacity building projects in a diagnostic laboratory at a remote rural hospital in northern Tanzania (laboratory renovations, making pure water available for tests and updating training) - Volunteer

- 2006-2009 Short Course in molecular biology laboratory techniques and theory at the Armauer Hansen Research Institute in Ethiopia - Volunteer Instructor and Course Organizer
- 2005-2008 Let's Talk Science - Laboratory Instructor Volunteer

CIVIC ENGAGEMENT: *Elected positions*

- 2014- Chair of the Canadian Coalition for Global Health Research Student Network Executive
- 2012- Canadian Coalition for Global Health Research (CCGHR) Student Board Member
- 2008-2009 Corona Condominium Board Association - President of the Board

O. CERTIFICATIONS

University of Calgary

- University of Calgary Emerging Leaders Certificate (ongoing)
- WHMIS (Workplace Hazardous Materials Information System) (2001)
- BioSafety Level I (2003)
- BioSafety Level 4 (2006)
- Blood Borne Pathogens (2005)
- Animal Handling and Surgical Procedures (2006)

P. Selected References

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