Department of Community Health & Epidemiology

2015-16 Annual Report
Our Faculty

Dr. Anne Leis
Department Head, Professor

Dr. Marcel D'Eon
Professor

Dr. Huyn J. Lim
Professor

Dr. Nazeem Muhajarine
Professor

Dr. Punam Pahwa
Professor

Dr. Lillian Thorpe
Professor

Dr. Sylvia Abonyi
Associate Professor

Dr. Gary Groot
Associate Professor

Dr. Lori Hanson
Associate Professor

Dr. Bonnie Janzen
Associate Professor

Dr. Cory Neudorf
Associate Professor

Dr. Kalyani Premkumar
Associate Professor

Dr. Rachel Engler-Stringer
Associate Professor

Dr. Ryan Meili
Assistant Professor

Dr. Michael Schwandt
Assistant Professor
Highlights from the Department Head

When looking back at the year 2015-16, I marvel at the accomplishments and the contributions we collectively made to students’ learning and progress, scholarly work, community engagement and CH&E department’s day to day life. This annual report only highlights some of the achievements and cannot encompass the multiple ways faculty, students and staff surpassed themselves.

I would like to thank our students who are the raison d’être of our mission, and acknowledge the very stimulating research day which was held on February 2016. It was also the first year we invited the residents in Public Health and Preventative Medicine to present their research work. A high proportion of students have been supported through a variety of scholarships and research assistantship from their supervisors. Dr. Marcel D’Eon also distinguished himself in winning the Provost’s College Award for Demonstrating Outstanding Teaching and Educational Leadership on April 29, 2016.

In terms of research scholarship, CH&E faculty held 23 grants as PI or Co-Investigators in the amount of $2,366,000. I also counted 62 publications disseminating research findings. Other reports and many conference presentations reached a variety of audiences locally, nationally and beyond, thus shining the light on the scholarly work of students and faculty.

Our collaboration with community partners is a strength of our department. Students’ initiatives such as post-doctoral fellow Andrew Hatala’s *Four seasons of resilience: A Collaborative Photovoice Exhibit* by Saskatoon Indigenous Youth are an inspiration. You will find a couple other engaged scholarship in this report such as Dr. Hanson’s descriptive case study on the nature and effects of interactions of a Canadian mining company with community mining resistance actors in Nicaragua. Dr. Engler-Stringer’s research work on food insecurity and the role of Station 20 West also deserves attention.

Finally, take note of the Department as a healthy and inclusive community with the diverse celebrations throughout the year: potlucks, new students’ welcome and orientation, graduation and little gestures of kindness such as opening your home at Christmas for students without a family in Saskatoon.

Thank you all for an excellent year which took us one step closer to our objectives and maybe our dreams!

Dr. Anne Leis
Department Head
Who We Are

The Department of CH&E is concerned with understanding the individual and collective factors that determine health and applying this knowledge to maintain and improve the health status of populations and reduce inequities in health status between groups. The term ‘community’ reflects the historic emphasis of our field on the creation, protection, and promotion of health within the context of communities, which may be geographic or based on shared identity and social ties.

The Department is driven by four strategic goals:

- **Department as a Healthy Community** 4
- **Community Engagement and Social Accountability** 7
- **Teaching and Learning** 13
- **Research** 20

Vision

We envision a society in which all people have equitable opportunity to experience optimal health, shaped by evidence-informed policies and practices and based on principles of sustainability.

Mission

We create, synthesize and translate knowledge for evidence-informed policies and practices which support population health equity locally and globally.

Values

Our values are Respect, Fairness, Excellence and Professionalism.
Department as a Healthy Community

To be a healthy and vibrant community providing a supportive working environment based on good communication and collaboration.
Congratulations!

Dr. Bruce Reeder retired in June 2015, after 28 years with the University of Saskatchewan in the Department of Community Health and Epidemiology.

Dr. Reeder’s research areas included global health and the One Health approach, epidemiology and control of infectious diseases, prevention of obesity, cardiovascular disease, and the promotion of physical activity.

Faculty in the Department qualified for various promotions in 2015-16:

Dr. Kalyani Premkumar was granted full professor status effective July 1, 2016.
Dr. Ryan Meili was granted tenure effective July 1, 2016.
Dr. Michael Schwandt’s probationary appointment was renewed July 1, 2016.

In June 2016, Dr. Anne Leis, Department Head, was honoured at the University of Saskatchewan’s Long Service Awards banquet. The ceremony recognizes faculty and staff who have demonstrated excellence in service to the University community for 25 years.

In November 2015, the Council of the College of Physicians and Surgeons of Saskatchewan presented Dr. Ryan Meili with the prestigious Dr. Dennis A. Kendel Distinguished Service Award for outstanding contributions to physician leadership and/or to physician engagement in quality improvements in health care in Saskatchewan.
Department Events
The Department enjoyed a variety of engaging events in 2015-16, including regular CHEP 990 seminars, the LMCC refresher course, potlucks, informational presentations and holiday celebrations.

Orientation at Wanuskewin

Potluck

CHEP 990 – Dr. Bruce Reeder

LMCC presenters

Faculty retreat

Undergraduate Medical Plunge

Koreen Skjonsby Halloween fun

Baby shower
Community Engagement & Social Accountability

To share and mobilize the knowledge and skills of the Department with diverse partners.
Dreaming Healthy Nations

In 2015, the Department provided funding for a series of articles on Upstream (thinkupstream.net). Upstream “is a movement to create a healthy society through evidence-based, people-centred ideas. Upstream seeks to reframe public discourse around addressing the social determinants of health in order to build a healthier society”. The movement “works with the growing body of evidence on ... social determinants of health and uses that knowledge to guide recommendations for change”.

The series of articles, titled Dreaming Healthy Nations, focused on exploring “the concept of the social determinants of health through an Indigenous lens, and the types of upstream interventions that could improve health outcomes for Indigenous peoples”. The author, Max Fineday, is a young nêhiyaw leader who completed two terms as president of the University of Saskatchewan Student’s Union.

Staff Contributions to Community Engagement

Kathy Evans, Department Head’s Secretary, has always had a passion for a good variety of food. She has volunteered in her local community designing and hosting basic cooking classes with food from the foodbank for children ages 9-12 years old. Kathy was also involved in adult cooking classes with various ethnic themes having guest “chefs” including some of her international students come in to teach cooking from Bangladesh, India, Greece, and China. More recently she has been inviting Department students to join her in her home to show off their cooking skills sharing recipes from their home countries (Sri Lankan, African, and Bangladeshi).

Cheryl Bolster, Department Secretary, is the ‘in-resident photographer’, always engaged and taking photos at Department events. She also writes the monthly newsletters, ensuring that everyone is up-to-date with what is going on in the Department and College.

Cindy Elchuk, Graduate Secretary, is passionate about welcoming international students to Saskatoon. She has hosted Department students for both Thanksgiving and Christmas.
Bringing Together Physical Activity and Culture to Promote Mental Health for Indigenous youth

In 2015-16, Dr. Rachel Engler-Stringer and graduate student Lise Kossick-Kouri accompanied award-winning film director Tasha Hubbard to Thunderchild First Nation to gather footage for a short documentary film. The short film was in part based on Dr. Engler Stringer’s research and Lise’s graduate project research within the context of community food systems, food injustice and alternative food networks in Saskatoon. Through gathered footage, the documentary will highlight elements of the research such as the role of resilience and resistance through capturing food pathways between rural and urban communities and documenting participation and distribution of foods by local households within alternative food networks.

Rachel and Lise met with Leah Arcand and fourteen grade 7 and 8 students who are part of the Miyo Pimatsowin mentorship program. One focus of the program is land-based teachings and traditional knowledge sharing. The day of their visit, students were learning how to ice fish.

“We were there to accompany, observe, contribute where we could, and participate in the learning. We felt very fortunate to be able to participate, learn so much and work alongside such a wonderful crew. It was an extraordinary day and important experience.”

Lise Kossick-Kouri, MSc Student
Four Seasons of Resilience: A Collaborative Photovoice Exhibit

Dr. Andrew Hatala, a postdoctoral fellow working under the supervision of Dr. Sylvia Abonyi, conducted a project, *Identifying strategies of resilience and mental health among inner-city Aboriginal youth*, using photovoice methods. Indigenous youth took photographs that revealed their resilience in the face of drugs, gangs and addictions. More than 30 of Saskatoon's indigenous youth were involved in the project, collaborating with Dr. Hatala on an exhibit held at SCYAP in December 2015 that showcased their work. The initiative was featured in a CBC news article. Dr. Hatala began a tenure-track position as Assistant Professor in the Department of Community Health Sciences at the University of Manitoba in January 2016.

“I learned that there were a lot of strengths and positive aspects of youth growing up in this area. I really wanted to learn about that and bring that out, and to counter some of the negative stories.”

Dr. Andrew Hatala

Andrew Hatala’s project, Four seasons of resilience: A Collaborative Photovoice Exhibit
City Centre Food Co-operative

The City Centre Food Co-op (CCFC) was formed by a group of local residents who were frustrated by a lack of grocery stores and was co-founded by, among others, three people in the Department of Community Health and Epidemiology – PhD Candidates Sugandhi del Canto and Thilina Bandara, as well as Assistant Professor Dr. Michael Schwandt. Sugandhi’s doctoral research focuses on Saskatoon’s built food environment, examining relationships between neighbourhood-level socioeconomic status and the accessibility and affordability of healthful foods. Guided by this research and the growing literature in this field, the CCFC has been working towards establishing consistent and affordable access to whole foods. Two important partnership have been developed with CHEP, through their Community Markets, and with the Community Service Village, who have created space for these markets. The CCFC was approached by PAVED Arts last fall to develop a short video highlighting the challenging landscape of Saskatoon’s food environment and the CCFC’s efforts to address these challenges. The video was launched as part of Culture Days 2016 and was also screened at the University of Saskatchewan’s Global Health Conference. The CCFC continues to assess and develop strategies for securing community-minded food stores, which includes efforts to eventually establish cooperative grocery stores in central Saskatoon.
In 2016, the Department was involved in the Saskatoon Temporary Refugee Clinic and Collaborative. The goal of this initiative was to provide Syrian refugees arriving in Saskatoon with timely access to centralized and appropriate health services, in a culturally-sensitive manner and using evidence-based medicine (EBM).

The city of Saskatoon routinely welcomes approximately 268 refugees annually. This number increased with the arrival of roughly 400 Syrian refugees from January to March 2016. The Saskatoon Refugee Collaborative was created from a need to address the health of this influx of refugees. The collaborative comprised of community stakeholders including two settlement agencies (Global Gathering Place [GGP] and Saskatoon Open Door Society [SODS]), Saskatoon Community Clinic, Saskatoon Health Region (Population and Public Health, Primary Health, Mental Health and Addiction Services,) and University of Saskatchewan (Departments of Pediatrics, Family Medicine, and Community Health & Epidemiology). The Collaborative established a clinic, operating from January 9 to March 21, 2016, to provide a first encounter with local primary health care providers to newly arrived Syrian refugees.

The collaborative met prior to the start of the clinic, as well as every 2-3 weeks during the clinic duration to modify the clinic process as needed. The clinic was intended as a non-mandatory service available to all Syrian refugees arriving in Saskatoon, and was located at the Saskatoon Community Clinic. Clinic hours were held on Monday and Wednesday evenings, and Saturday full days.

A process evaluation of the clinic was conducted to assess to what extent the clinic met its goals. Under the supervision of CH&E researchers, James Dixon, PhD student and research assistant for the project, compiled information routinely collected by the clinic, conducted a staff survey and additional in-person interviews. All 400 Syrian refugees visited the clinic by roughly 3 weeks after arrival. The results indicate that the centralized health services model was a success; Syrian refugees saw either a family physician or a pediatrician as well as public health nurses, had necessary lab tests done and access to interpretative services. However, within the one visit it was difficult to address broader needs such as dental or vision care, mental health or housing issues. In some cases, transportation was a challenge. The evaluation indicates that the objectives were mostly met, but time restraints and limited resources impeded the ability to ascertain follow-up from referrals and transition to a permanent family physician. Culturally sensitive care was provided but was difficult to measure as clinic’s patients were not directly interviewed. The evaluation highlighted the successful collaboration between multiple community stakeholders that occurred within a rushed timeline. This collaboration worked extremely well and could potentially be an example for other patient-centered care models locally and more broadly.
Teaching & Learning

To foster self-directed, life long and collaborative learning.
Our Programming: Graduate Education

MSc Program in Community and Population Health Sciences
The Master of Science (MSc) program in Community and Population Health Sciences prepares students for academic careers, including pursuit of doctoral studies, or to work in a variety of research-intensive environments. Students will learn about community and population health concepts, epidemiology, theory, and research; develop basic skills in qualitative and quantitative research methods and project management; and gain hands-on experience in research through the completion of a thesis. The M.Sc. in Community and Population Health Sciences is a thesis-based program that can be completed in two years of full-time study.

PhD Program in Community and Population Health Sciences
The doctorate (PhD) program in Community and Population Health Sciences is designed with considerable flexibility, recognizing that students come to the population health field with diverse backgrounds. This allows students, with their Advisory Committee, to create individualized programs that take into consideration their particular research interests and the areas in which they need additional development. Through coursework and seminars, students will gain a more sophisticated understanding of community/population health theory and the research-policy-practice context. Designing and carrying out an independent research project provides an opportunity to further develop knowledge and skills around a specific problem.

Collaborative MSc and PhD Programs in Biostatistics
The Department is also involved in the delivery of M.Sc. and Ph.D. programs in Biostatistics in collaboration with the Department of Math and Statistics and the School of Public Health.
Our Programming: Undergraduate Medical Education

The faculty members of the Department are closely involved in introducing concepts of population and community health to undergraduate medical students through courses and learning formats such as Medicine and Society, Clinical Integration, Community Service Learning, and Certificate in Global Health. Some faculty participate in committees such as the curriculum committee, program evaluation committee, medical education oversight committee, that are responsible for the design, implementation and evaluation of the undergraduate medical curriculum. In 2015-16, there were 397 undergraduate medical students enrolled in the College.

Our Programming: Postgraduate Medical Education

Public Health and Preventative Medicine Postgraduate MD Program
The Public Health and Preventative Medicine Postgraduate MD residency program is a medical postgraduate training program leading to Royal College certification as a specialist in Public Health and Preventive Medicine. This specialty focuses on the health of populations, on prevention, health promotion and health protection, using epidemiology and data analysis as its basic science.
The Department’s 2016 Student Research Day took place on February 2 at the Royal University Hospital SaskTel Theater. Twenty graduate students presented at the event, covering a wide range of research topics from food insecurity among university students to agricultural workers’ lower back health.

The Department’s Student Research Day was started in 2011 to give students the skills to present their research to a large audience. Each student presents orally and is then evaluated by two faculty members. A reception is held after the event and the top three presenters are awarded prizes. All of the Department’s current graduate students, regardless of whether they are presenting, are required to register and attend Research Day.

Research Day winners (left to right): Joelle Schaefer (1st), Caitlin Olauson (2nd) and Marcus Ilesanmi (3rd).
23rd Annual Life and Health Sciences Research Day

Seven students from the Department presented their posters at the 23rd Annual Life and Health Sciences Research Day on March 11, 2016: Grace Akinjobi, Adriana Angarita Fonseca, Hasanthi Abeykoon, Jacinda Sigurdson, Sharmeen Rasul, Valerie Umaefulam and Ziadeddin Al Baghdadi.

Congratulations to Valerie Umaefulam who won first place for her poster entitled, Self-directed Learning Readiness of Indian Medical Students: A Mixed Method Study. Dr. Kalyani Premkumar supervised Valerie on this project.

Faculty Development

In 2015-16, Dr. Kalyani Premkumar served as the Interim Faculty Development (FD) Director for the College of Medicine. A number of steps were taken to establish the infrastructure and foundation for Faculty Development, including a mission, vision, values and strategic plan for FD.

In 2016, a Faculty Development advisory committee was formed by Dr. Premkumar, with representatives from key stakeholders such as Undergraduate, Postgraduate, Continuing and Distributed medical education; Health Sciences library; Gwenna Moss Center; Edwards School of Business and Interprofessional Education. Department Heads were approached to identify FD needs in order to customize delivery of FD to their faculty.

Several events were planned and implemented as part of the initiative. A key event offered was the Advanced Skills for Simulation Educators & Teachers (ASSET) course for interprofessional faculty. ASSET is a two-day course that addresses all concepts of simulation, as well as provides practical experience in the delivery of simulation-based education. Steps have been taken to ensure that there is proper communication to keep all faculty informed about resources and events.

Student Highlight

Making the Links

Making the Links – Certificate in Global Health (MTL-CGH) is a unique two-year certificate program for undergraduate medical students that combines academic courses with service learning experiences. Selected undergraduate medical students experience community health and development in three service-learning practicum contexts: 1) an urban underserved community at SWITCH (Student Wellness Initiative Towards Community Health) in Saskatoon or SEARCH (Student Energy in Action for Regina Community Health) in Regina; 2) a six-week placement in a rural/remote, Indigenous community in Saskatchewan, and 3) a six-week placement in an international community globally.

Since inception in 2004, 102 students have completed the MTL-CGH program. A 2015 program evaluation revealed that MTL graduates are more likely to choose Family Medicine (64%) over other specialities (36%) ($\chi^2 = 3.920, p=0.048$) and rural medicine (81%) vs. urban (19%) ($\chi^2 = 6.250, p=0.012$). Further, participation in the program correlated with higher LMCC (Licentiate of the Medical Council of Canada) scores, which suggests a positive effect of participation on academic performance. Qualitative analysis revealed MTL increased students’ knowledge of the social determinants of health and their desire to work in underserved communities (Meili et al., 2011). Many students of the MTL-CGH program continue to demonstrate leadership in global health and health equity throughout their medical careers.

Outstanding Teaching Award

In 2016, faculty member Dr. Marcel D’Eon won the College of Medicine’s Provost’s College Award for Outstanding Teaching. Dr. D’Eon received the award for his work on the new student curriculum. He was the chair of the curriculum committee that initiated the 2+2 curriculum a few years ago. D’Eon and the committee looked at the way that courses are organized and delivered, and took the curriculum restructuring as an opportunity to provide an improved learning path for students. Marcel has a PhD in Educational Administration and has been working with the College of Medicine since 1997. His research areas include measures of student workload and curricular footprint of courses, program evaluation, effective teaching methods especially cooperative learning, experiential learning and integration of basic medical sciences into the medical school curriculum.

Dr. Marcel D’Eon receiving the College of Medicine’s Provost’s College Award for Outstanding Teaching from VP Teaching and Learning Dr. P. McDougall.
Congratulations Graduates!

Congratulations to the 2015-16 graduates from the Department’s PhD and MSc programs:

Abraham Alano Ali, PhD (Supervised by Dr. Lori Hanson)
“I Got Peace and Stability”: Women’s perceptions of contraceptive use in Sidama, SNNPR, Ethiopia

Juanita Bacsu, PhD (Supervised by Dr. Sylvia Abonyi)
Perceptions of cognitive health: an ethnographic inquiry of rural older adults

Enoch Pambour, PhD (Supervised by Dr. Lori Hanson)
Birth in Girar Jarso woreda of Ethiopia

Ezjul Chowdhury, MSc (Supervised by Dr. Nazeem Muhajarine)
A grounded theory study of the experiences, process and transitional needs of people with autism

Samuel Essein, MSc (Supervised by Dr. Catherine Trask)
Association between whole body vibration and low back disorders in farmers: a systematic review and a prospective cohort study

Left Dr. Sylvia Abonyi, Juanita Bacsu, Enoch Pambour, Dr. Lori Hanson, Centre: Dr. Nazeem Muhajarine, Ezjul Chowdhury and Loraine Holtslander
Right: Samuel Essein

In 2016, PhD graduate Abraham Alano Ali (pictured left with Dr. Lori Hanson) won the $500 - 50th Anniversary Legacy Award for outstanding performance and lasting contribution in Community-University Collaborative Research.
Research

To conduct excellent, interdisciplinary and transdisciplinary research in population health with a focus on inequities locally and globally.
Our Research Themes

The Department has a long history of intensive, engaged, well-funded and productive clinical, health services, and population health research. We are concerned with understanding the individual and collective factors that determine health and applying this knowledge to maintain and improve the health status of populations as well as reduce inequities in health determinants and outcomes. Our faculty is diverse in member backgrounds and disciplines (e.g. public health and preventative medicine, psychiatry, surgery, family medicine, anthropology, sociology, psychology, nutrition, education, epidemiology, biostatistics, interdisciplinary and community based training). Our collective wealth of experience fosters cutting edge research and trainee opportunities. Research highlights in this annual report reveal community based approaches and funding success from a variety of sources (tri-council, government, health research foundations, and NGOs) as areas of strength in CH&E.
2015-16 RESEARCH PRODUCTIVITY

In 2015-16 the Department completed a high-level of research. Faculty contributed to book chapters, journal articles, conference proceedings and technical reports. Faculty also presented at a variety of conferences; including eleven presentations abroad in countries such as Nicaragua, the United States, South Korea, South Africa, the Netherlands and Wales.

5-YEAR RESEARCH PRODUCTIVITY (2011-16)

424 Invited Lectures and Conference Presentations
296 Peer-reviewed Journal Articles
7 Book Chapters
51 Technical Reports
In 2015-16, the Canadian Institutes of Health Research (CIHR) was the largest provider of research funding for the Department. The CIHR provided over $1.5 million in funding, covering a variety of research topics such as food security, aging populations, respiratory health, suicide prevention, Indigenous health and mental health.

### 2015-16 RESEARCH FUNDING BY SOURCE (millions)

- **Canadian Institutes of Health Research**: $1,536,423
- **Saskatchewan Health Research Foundation**: $322,906
- **Heart and Stroke Foundation of Canada**: $266,076
- **University of Saskatchewan College of Medicine**: $111,599
- **College of Medicine Research Awards**: $57,000
- **Public Health Agency of Canada**: $42,000
- **Royal University Hospital Research Fund**: $25,000
- **CHEP**: $5,000

**Total**: $2,366,004

### 5-YEAR RESEARCH FUNDING BY SOURCE (2011-16, millions)

- **Canadian Institutes of Health Research**: $44.5 million
- **Heart and Stroke Foundation of Canada**: $29.2 million
- **Public Health Agency of Canada**: $6.5 million
- **Other**: $6.9 million
- **Government of Saskatchewan**: $1.9 million

**Total**: $78.1 million
Clinical Research Support Unit
Dr. Hyun J. Lim

The Clinical Research Support Unit (CRSU) helps build research capacity within the College of Medicine and is directed by Dr. Hyun J. Lim of the Department. CRSU contributed to 108 projects during the 2015-16 academic year, a continuing increase in volume. Amount of support varied broadly depending on type of support requested, degree of complexity in study design/data, level of investigator’s research expertise, and final utilization of results (e.g. brief presentation versus full manuscript). The majority of requests were for support related to data analysis (55% of projects), design advice (32%) and manuscript review/written contribution (19%).

The Department utilized CRSU services for seven projects in 2015-16; for research covering a wide range of topics such as life satisfaction, self-directed learning, and Aboriginal health.
Research Feature: Indigenous Health
Dr. Sylvia Abonyi

Dr. Sylvia Abonyi’s research focuses on community-relevant topics such as healthy aging among Indigenous and non-Indigenous seniors in rural Saskatchewan, the development of Indigenous community health frameworks and indicators, the determinants of tuberculosis transmission on the Canadian prairies, disparities in respiratory health on reserve, and the historical and contemporary dimensions of the occurrence of type-2 diabetes in First Nations communities.

A settler who works closely with Indigenous communities, an important focus of Dr. Abonyi’s work is to build research capacity in communities, with the communities as the drivers of the research. Dr. Abonyi has also contributed to the global discourse on tracking community health in Indigenous contexts under Indigenous control and to the development and application of practical and ethical guidelines in community-based Indigenous health research. Most recently she and colleagues wrote an editorial on the application of health research ethics guidelines to historical and archival research using publicly accessible records. The editorial accompanies their published research on the health of First Nations children and youth on first entry to residential schools.

http://dx.doi.org/10.3402/ijch.v75.32592

http://dx.doi.org/10.3402/ijch.v75.30734

Métis healthy aging research project leads, left to right: TJ Roy, S Abonyi, S Oosman, L Durocher.

Building research capacity in Indigenous communities, with the communities as the drivers of research.
Research Feature: Local Food Security  
Dr. Rachel Engler-Stringer

Dr. Rachel Engler-Stringer has a passion for community-based research projects that contribute to better understanding of food security in Saskatoon and beyond. Hired by the Department as a community-based researcher in 2009, she is committed to working on issues surrounding food security and concerns of marginalized community.

In 2015-16, Dr. Engler-Stringer concluded a project funded by the Canadian Institutes of Health Research, which entailed the examination of the early health impacts of the Good Food Junction (GFJ), a grocery store located in a low-income neighbourhood in Saskatoon. The GFJ is a key aspect of Station 20 West, which is a community enterprise centre that opened in 2012, and was conceived and funded by the community. Station 20 West has received both regional and national attention for its innovation and has been described as a model for creating changes that will lead to improved health equity in the long-term. Building on her GFJ research, Dr. Engler-Stringer is now exploring how the food practices of households are influenced by social, cultural, political, economic and environmental structures, as well as their responses to their social contexts. She is completing a critical ethnography of food practices of households living in the neighbourhoods surrounding the GFJ, using in-depth interviews, observations, photography and videography over a two-year period.

Dr. Engler-Stringer’s research program makes a significant contribution to advancing the understanding in reducing nutrition inequities through population-level food intervention. The opportunity to systematically and comprehensively study the potential benefits of a large-scale food store and many interventions within it, in an area previously described as a food desert, is without precedence. Working closely in partnership with regional health authorities and community-based organizations, Dr. Engler-Stringer hopes to address complex issues, develop and apply innovative approaches, and translate research findings into action.

Addressing complex food security issues, developing and applying innovative approaches, and translating research findings into action.
Research Feature: International Activity Scholarship
Dr. Lori Hanson

Dr. Lori Hanson’s research interests include global health and development and activism and social movements, with a focus on community-based approaches. In 2015-16, Dr. Hanson completed a study which focused on Rancho Grande, Nicaragua, where the resistance movement of local peasants successfully staved off mining exploration by B2Gold, a Canadian company. Dr. Hanson’s study explored and portrayed the experiences of resistance in the Rancho Grande community, finding that the act of organizing to resist mining was in effect an act of refusing vulnerability by literally and figuratively, keeping ground.

The methodological approach that Dr. Hanson used is that of activist scholarship, which by definition: is an overtly political approach stemming from and supporting real-world struggles of marginalized peoples that sees research and political engagement as mutually enriching, and that (arguably) is compatible with the WHO/CSDH call for action on the Social Determinants of Health which seek to “tackle the inequitable distribution of power, money, and resources”. The study built on years of relationships, commitments and engagements of the researcher and researched alike. It was undertaken at the behest of the community members and NGOs involved in the resistance movement.

Dr. Hanson’s study case is unusual, because in October 2015, the community’s land defenders won an important victory with the Nicaraguan president declaring the continued exploration and proposed mine to be “non-viable,” thus halting its development at the exploration stage, at least for now. Lessons learned about community organization and resistances have bolstered the community’s resilience and pride, protecting it against future social upheaval and environmental destruction. Dr. Hanson’s case study research into how Rancho Grande effectively worked together in the face of external threats - such as unwanted mining exploration – revealed important lessons about how to decrease social and environmental vulnerabilities.

Bolstering community resilience and pride, to protect against future social upheaval and environmental destruction.
Appendix A

2015-16 Research Productivity
Community Health and Epidemiology, College of Medicine
Research Productivity 2015-16

Publications

Chapter in Book, Peer Reviewed


Papers in Refereed Journals

Published


2016-04 **D'Eon M**. The science of communication, the art of medicine. Canadian Medical Education Journal. 2016 Apr;7(1). Comment: This was a peer reviewed editorial for the 7(2) issue of the CMEJ.


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<th>Year</th>
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Papers in Non-Refereed Journals

Published


2016-01  Muhajarine N. Conversation with Bryan Smale. Engaged Scholar Journal. 2016 Jan;1(2):221-228. Comment: This article was based on a structured conversation NM had with Bryan Smale, scientific director, Canadian Index of Wellbeing, for the journal section, Notes from the Field.

2015-12  D'Eon M. Non-cognitive does not work; we need a new name. Canadian Medical Education Journal. 2015 Dec;6(2). This was an editorial for the 6(2) issue of the CMEJ.

Contributed (Non-Invited) Published Papers/Abstracts


http://crhrsscrsr.usask.ca/edmonton2015/program.php#WORKSHOPSSunday
September202015. Paper presented at: The 14th Conference of the
Canadian Rural Health Research Society (CRHRS): Better Health for Rural
Canadians: from Evidence to Practice; 2015 Sep 20-22; Edmonton, AB

Addressing Housing and Respiratory Health through Community Engagement in Two Saskatchewan First Nations Communities. [abstract].


Technical Reports Relevant to Academic Field


Contributed (Non-Invited) Papers/Abstracts at Conferences
Abstracts-Oral


Engler-Stringer R, Olauson C. Highlights from a Program of Nutrition Inequity Research in Saskatoon [abstract]. Paper presented at: Global Health: Nourishing Equity; 2015 Oct 17-17; Saskatoon, SK


Hanson L, Hanson Pastran S. The Nicaragua Interoceanic Canal: Development panacea or Smoke and mirrors [abstract]. Paper presented at: Prairie Political Studies Association Conference; 2015 Sep 11-13; Banff, AB


Abstracts-Poster


2016-04-16  D'Eon M, Premkumar K, Nair B. Curricular footprint [abstract]. Poster presented at: Canadian Conference on Medical Education; 2016 Apr 16-19; Montreal


2015-11-02  Hinther K, Harriman S, Groot G. Decreasing Length of Hospital Stay and Intravenous Calcium Requirements with Standardized Post-Operative Orders for Dialysis Patients with Secondary Hyperparathyroidism Who Have Undergone Parathyroidectomy [abstract]. Poster presented at: 3rd International Conference on Endocrinology; 2015 Nov 2-4; Atlanta, Georgia, USA


2015-09-05  Baerg K, Trinder K, Clatney L, Keller M, D'Eon M. Patients and Families as Advisors to Teach Patientand Family-Centered Care [abstract]. Poster
presented at: Association for Medical Education in Europe (AMEE); 2015 Sep 5-9; Glasgow, Scotland


Research Grant and Contract Information

Grants, Awarded (Peer-Reviewed)

2016-06 to 2017-05 Schwandt M (Principal Investigator), Muhajarine N (Co-investigator), Koehncke N (Co-investigator), Irvine J (Co-investigator), Lim H (Co-investigator), Marko J (Co-investigator). Impact of wildfire smoke on health services utilization during a major forest fire event in Saskatchewan, College of Medicine (COMRAD). Total: $27,000.00 for 2016-06 to 2017-05

2016-05 to 2017-05 Engler-Stringer R (Principal Investigator), Muhajarine N (Co-investigator), Vatanparast H (Co-investigator), Martin W (Co-investigator). Good Food for Learning: An Examination of the Current State of School Food in the Saskatoon Region., This project will measure the dietary quality of school lunches. College of Medicine (COMRAD). Total: $30,000.00 for 2016-05 to 2017-05

2016-05 to 2017-10 Lim H (Principal Investigator). Impacts of Wildfire Smoke on Health Service Utilization During a Major Forest Fire Event in Saskatchewan, College of Medicine. Total: $26,599.00 for 2016-05 to 2017-10

2016-05 to 2018-04 Vatanparast H (Principal Investigator), Leis A (Co-investigator), Engler-Stringer R (Co-investigator), Belanger M (Co-investigator), Humbert M (Co-investigator), Froehlich Chow A (Co-investigator), Osgood N (Co-investigator), Szafron M (Co-investigator). The Impact of Healthy Start-Départ Santé intervention on improving dietary intake of 3-5 year old children attending childcare centers in...
Saskatchewan and New Brunswick, Heart and Stroke Foundation of Canada. Total: $266,076.00 for 2016-05 to 2018-04

2016-05 to 2017-04

Martin W (Principal Investigator), Engler-Stringer R (Co-investigator), Petrucka P (Co-investigator), Micheels E (Co-investigator), Wood G (Co-investigator), Davidson D (Co-investigator), Enns G (Collaborator). Concept Mapping to Improve Health through Urban Agriculture, Collaborative Innovation Development Grant to create an urban agriculture action plan for Saskatoon Saskatchewan Health Research Foundation. Total: $39,000.00 for 2016-05 to 2017-04

2016-04 to 2017-09

Schwandt M (Principal Investigator), Hanson L (Co-principal Investigator), Tucker S (Co-investigator), Stevens A (Co-investigator). Social Determinants of Health Among Migrant Workers in Saskatchewan, Saskatchewan Health Research Foundation, Collaborative Innovation Development Grants. Total: $39,691.00 for 2016-04 to 2017-09

2016-03 to 2017-03

Eramian M (Principal Investigator), Babyn P (Co-investigator), Groot G (Co-investigator). Novel Methods for Computational Risk Assessment of Thyroid Nodules in Sonographic images, SHRF. Total: $40,000.00 for 2016-03 to 2017-03

2016-03 to 2017-03

Thorpe L (Principal Investigator), Whiting S (Co-investigator), Dust W (Co-investigator). Hip fractures in Saskatchewan Long Term Care Facilities, Administrative data analysis with Health Quality Council on the prevalence and predictors of hip fractures in Saskatchewan LTC facilities RUH Foundation Research Fund. Total: $25,000.00 for 2016-03 to 2017-03

2016-03 to 2017-02

Long R (Principal Investigator), Abonyi S (Co-investigator). Implementing the "Patient's charter of tuberculosis care" in high incidence Indigenous communities and across jurisdictional borders., 2016-02-16 Team Grant: Pathways to Health Equity for Aboriginal People – Implementation Research Team Grants - Component 2 -LOI CIHR. Total: $3,423.00 for 2016-03 to 2017-02 Comment: there are 26 other co-investigators on this LOI from across Canada.

2016-02 to 2019-02

Atkinson S (Principal Investigator), Bocking A (Principal Investigator), Ferritti V (Principal Investigator), Fraser W (Principal Investigator), Bowen A (Co-investigator), Anand S (Co-investigator), Barrett J (Co-investigator), Boivin M (Co-investigator), Cote S (Co-investigator), Dodd L (Co-investigator), Jenkins J (Co-investigator), Knoppers B (Co-investigator), Letourneau N (Co-investigator), Luo Z (Co-investigator), MacQuire J (Co-investigator), Muhajarine N (Co-
investigator), Oberlander T (Co-investigator), Rosenberg A (Co-investigator), Smith G (Co-investigator), Subbararo P (Co-investigator), Tough S (Co-investigator), Wahi G (Co-investigator), Wen SW (Co-investigator). Research Advancement through Cohort Cataloguing and Harmonization (ReACH), Operating Grant: Canadian Developmental Origins of Health and Disease Cohort Registry CIHR. Total: $1,300,000.00 for 2016-02 to 2019-02

2016-02 to 2017-03 Gauvin L (Nominated-principal Investigator), Muhajarine N (Principal Investigator), Raynault M (Co-principal Investigator), Masse R (Co-investigator), Dally P (Co-investigator), McKeown D (Co-investigator), Neudorf C (Co-investigator), Barnett T (Co-investigator), BILODEAU A (Co-investigator), Engler-Stringer R (Co-investigator), Fuller D (Co-investigator), Henderson M (Co-investigator), Laurinl (Co-investigator), Lévesque C (Co-investigator), Morency P (Co-investigator), Potvin L (Co-investigator), Robitaille É (Co-investigator), SANDHU J (Co-investigator), Sari N (Co-investigator), Schwandt M (Co-investigator), Stanton Jean M (Co-investigator), Winters M (Co-investigator). MUSE: Multisectoral Urban Systems for health and Equity in Canadian cities / Multisectorielles et Urbaines: approches pour la Santé et l’Équité dans les villes canadiennes (Development Grant/post-LOI), This is a team grant application co-led by Lise Gauvin and Nazeem Muhajarine, engaging chief MHOs and researchers from four cities: Montreal, Toronto, Saskatoon, and Vancouver. CIHR. Total: $50,000.00 for 2016-02 to 2017-03

2016-01 to 2018-01 Premkumar K (Principal Investigator), Vizeacoumar F (Co-investigator), Bomfim E Co-investigator). Effects of Swedish massage on cellular immunity, endocrine response, sleep and symptoms trajectory in patients with cancer: A randomized controlled clinical trial, College of Medicine, Vice Dean Research Office. Total: $20,000.00 for 2016-01 to 2018-01

2016-01 to 2016-08 Sari N (Principal Investigator), Muhajarine N (Co-investigator), Health Start/Depart Sante T (Co-investigator). Are we investing wisely? A Social Return on Investment Analysis of the Saskatchewan/New Brunswick Healthy Start/Départ Santé Intervention, Public Health Agency of Canada (PHAC). Total: $42,000.00 for 2016-01 to 2016-08

2015-09-01 to 2018-09-01 Oosman S (Principal Investigator), Abonyi S (Co-investigator), Jeffery B (Co-investigator), Roy TJ (Co-investigator), McHugh T (Co-investigator). Tah-Nigahniwhak! (They Will Be Leaders) Growing Up Well in a Northern Saskatchewan Métis Community, Operating Grant Saskatchewan Health Research Foundation (The) (SHRF). Total: $119,415.00 for 2015-09-01 to 2018-09-01
Quail J (Principal Investigator), Woodchis W (Co-principal Investigator), **Muhajarine N** (Co-investigator), **Neudorf C** (Co-investigator), Teare G (Co-investigator), de Oliveira C (Co-investigator), Vigood S (Co-investigator), Baker M (Collaborator). Hotspotting: Identifying superusers of health care services with mental health and addiction problems, Canadian Institutes of Health Research (CIHR) - SPOR Network in Primary & Integrated Health Care Innovations – Quick Strikes Total Funding - 80,884 (Canadian dollar). Total: $150,000.00 for 2015-07 to 2016-12

Waldner C (Principal Investigator), Osgood N (Co-investigator), Martin W (Co-investigator), Stanley K (Co-investigator), Liu J (Co-investigator), **Neudorf C** (Co-investigator), Bell S (Co-investigator). Exploring New Technologies to Support Investigation of Foodborne Disease, This innovative project evaluated a new technology for gathering data on food consumption and occurrences of gastrointestinal illness using iEpiph, a well established Android smartphone app. Saskatchewan Health Research Foundation. Total: $39,800.00 for 2015-04 to 2016-04

Leis A (Principal Investigator), Smith L (Co-principal Investigator), Meier C (Co-investigator), Meiers P (Co-investigator), Santoro J (Co-investigator), **Groot G** (Co-investigator). Breast Health Care in Saskatoon and Saskatchewan: Developing a Cutting-edge Research Base Infrastructure to Assess Reach, Appropriateness and Outcomes, SHRF. Total: $40,000.00 for 2015-03-02 to 2017-02-28. (Highest ranked grant in the socio-health category, SHRF)

Meili R (Principal Investigator). Building Research Capacity Through Community Assessment and Engagement with the Saskatoon Indian and Métis Friendship Centre, A grant to work with the Saskatoon Indian Métis Friendship Centre to explore community needs regarding access to health services for people at risk of or living with HIV/AIDS in Saskatoon. March, 2015. CIHR. Total: $33,000.00 for 2015-03 to 2017-03

Hanson L (Principal Investigator). Canadian Mining and Community Resistance: Research support, Descriptive case study on the nature and effects of interactions of a Canadian mining company with community mining
resistance factors. College of Medicine Global Health Faculty Travel fund. Total: $2,500.00 for 2016-02 to 2016-05

2015-11 to 2018-06 Premkumar K (Principal Investigator), DEon M (Co-investigator), Sakai D (Co-investigator), Trinder K (Coinvestigator), Fong S (Co-investigator). Impact of international collaboration - the new wave in medical education, Collaborative study with University of Hawaii; study of impact in relation to educational scholarship College of Medicine, University of Saskatchewan. Total: $2,500.00 for 2015-11 to 2018-06

2015-09 to 2016-09 Blonde Y, Hanson L, Leis A. Refugee Health Clinic Evaluation, CHEP. Total: $5,000.00 for 2015-09 to 2016-09

Contracts, Awarded (Peer-Reviewed)

2016-05 to 2017-10 Lim H (Principal Investigator). A noble strategy to protect the glomerular filtration barrier in diabetic nephropathy, College of Medicine. Total: $30,000.00 for 2016-05 to 2017-10

2015-06 to 2015-10 Meili R (Principal Investigator). Global Health Conference: Nourishing Health Equity., Research connections grant in support of interdisciplinary global health conference. SHRF. Total: $5,000.00 for 2015-06 to 2015-10