

Annual Report 2014



Research throughout the Life Course

Centre on Aging
University of Victoria
uvic.ca/aging

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Director's Summary

My service as Director of the Centre on Aging began in July 2014. I want to begin by acknowledging the tremendous efforts of the previous director, Holly Tuokko, over the previous five years. Indeed, in the external review of the centre last year, the reviewers stated that the UVic Centre on Aging was a Centre of Excellence in research and community engagement, an outstanding and exemplary research centre in the field of aging in Canada and internationally, and a model centre in Canada. I have certainly found this to be the case and want to also acknowledge the superb staff we have here at the centre: Lois Holizki, Vincenza Gruppuso, Leah Potter, and Arlene Senft. In recognition of her longstanding and excellent contributions to centre activities, Lois received the 2013 President's Distinguished Service Award.

We have been working to build on the many strengths of the Centre on Aging through activities to better support and communicate the latest research and activities of the centre's many faculty affiliates and students. We are working to better engage and collaborate with our research partners (e.g., CanAssist, Island Health, Canadian Institute for Health Information, Greater Victoria Eldercare Foundation) and the Vancouver Island community. We are currently building a new website that will be functional in 2015. We have initiated a new colloquium series on Optimizing Aging and Health, initially focused on research methods, and to be expanded in 2015 to include cutting-edge seminars and expert panels in support of new collaborative initiatives, beginning with an emphasis on technology and aging, biomarkers, and patient-reported outcomes. The Centre on Aging is now a regular partner with the Lafayette String Quartet in support of their annual Lafayette Health Awareness Forum, providing an opportunity for health professionals to meet with the community to present and discuss important health topics.

The Centre on Aging continues to build research collaborations with CanAssist developing and evaluating technologies that enable individuals to continue to live independently and securely within their homes and also to meet some of the challenges associated with dementia and caregiving. Our staff and affiliates work closely on evaluation research and new research on the role of technology in maintaining health and improving quality of life and well-being throughout the life course. This has led to a number of opportunities for identifying unmet needs, implementing technological innovations, and evaluating impact on improving and maintaining health, functioning, and well-being.

In partnership with the Department of Psychology, the centre has taken a leading role in the development and support of a regular seminar course on "writing research snapshots". Up to 12 undergraduate students will meet once a week with community members, graduate student teaching assistants, and centre faculty members to discuss the latest aging and health research and "translate" this work into brief clear language summaries.

The Centre on Aging is working to have greater engagement with the Vancouver Island community to direct our activities, be involved in our research, and help us promote and share evidence-based research. To facilitate this, we are working to develop a large-scale local cohort through regular internet and in-person assessments on general health and lifestyle, biological samples, and cognitive and physical measurements. One long-term objective of this research is to improve our ability to unobtrusively monitor health factors and detect important early health changes due to chronic disease and aging. This early detection allows timely intervention to prevent avoidable health deterioration or loss of independence and speaks to the need to measure individuals more frequently than once every few years. This continues to be a focus of grant activity and collaborations with researchers and clinicians at Island Health and is the focus of several Research Alliance groups on frailty, technology and aging, and with Island Health and Cerner Corporation.

New research continues to prosper. Drs. Debra Sheets (School of Nursing, UVic) and Cheryl Beach (Continuing Health Services, Island Health) are co-investigators on a research project "Technology Supports for Community — Dwelling Older Adults with Dementia and Family Caregivers" funded by Island Health. The study will test a new comprehensive model of technology integration aimed at caregiving for older adults with dementia. The Canadian Consortium on Neurodegeneration in Aging (CCNA) has a five-year initiative where Drs. Neena Chappell and Holly Tuokko are investigators on two of the successful teams, "Dementia family care-givers who are employed in the Canadian workforce" and "Driving and dementia", respectively. Dr. Zheng Wu with co-investigators Drs. Neena Chappell and Margaret Penning have been awarded a three-year SSHRC grant for their project, " Cohabitation among Canadians in mid and later life: A national portrait, 1981-2011". The project will focus on how non-marital unions—cohabitation and living-apart-together (LAT) relationships—are changing conjugal life among Canadians aged 45 years and older. The Supporting Family Caregivers of Palliative Patients at Home: The Carer Support Needs Assessment (CSNAT) Intervention study, led by Drs. Kelli Stajduhar (Centre on Aging — School of Nursing, University of Victoria) and Rick Sawatzky (School of Nursing, Trinity Western University), has received joint funding for three years from the Technology Evaluation in the Elderly Network (TVN) and the Canadian Cancer Society Research Institute. Research findings are shared through numerous peer-reviewed publications and reports.

A number of our colleagues have received recognition for their outstanding research. Dr. Stuart MacDonald has been elected for a seven-year term with the Royal Society of Canada's newly formed College of New Scholars, Artists and Scientists. Members of the college, who must be within 15 years of receiving their PhDs or equivalent when appointed, are considered "the emerging generation of intellectual leadership in Canada." The American Academy of Nursing selected Dr. Debra Sheets as a nurse leader by inducting her as a fellow. The College of Registered Nurses of BC gave an Excellence in Nursing Research Award to Dr. Kelli Stajduhar.

On a more personal note, next year I am ending my term as Past President of the Society of Multivariate Experimental Psychology and beginning as President-Elect of Division 5 (Quantitative and Qualitative Methods) of the American Psychological Association. I continue to engage in aging-related research with graduate students and colleagues locally, nationally and internationally to advance knowledge in the field of aging through the Integrative Analysis of Longitudinal Studies of Aging and Dementia (IALSA) research network, funded by the US National Institute on Aging. We submitted a proposal for a professional interest area in longitudinal methods and reproducible research within the International Society to Advance Alzheimer's Research and Treatment (ISTAART) program of the Alzheimer's Association to improve our understanding of changes associated with neurodegenerative disorders and to support methodological innovations associated with longitudinal observational studies. We are advancing new partnerships with both the National Alzheimer's Coordinating Center and the UK Dementia Platform on grants and workshops on methodological and statistical challenges and to improve early detection of changes using dynamic risk profiles and analysis of individual change-points. We expect that these activities will lead to a number of new collaborations and grant applications to the European Union Joint Programme – Neurodegenerative Disease Research (JPND), Canadian Institutes of Health Research (CIHR), and US National Institutes of Health (NIH) this year.

Cheers!

Scott Hofer

Harald Mohr, M.D. and Wilhelma Mohr, M.D. Research Chair in Adult Development and Aging

Advisory Board



From left to right:

Back row: C. Peter Keller, Patrick McGowan, Bernie Paillé, Beverly Timmons, Scott Hofer, John Gray, Martin Wale,
 Front row: Bev Wilden (chair), Holly Tuokko, Julie Shaver, John Tomczak, Lois Holizki, Judy Brownoff, Michael Miller
 Missing: Stuart MacDonald, Lori McLeod

Program Committee

Name	Representing
Scott Hofer (chair)	Centre on Aging, Department of Psychology
Neena Chappell	Department of Sociology
Brian Christie	Department of Biology, School of Exercise Science, Physical & Health Education
Denise Cloutier	Department of Geography
Michael Hayes	Department of Geography, School of Public Health and Social Policy
Stuart MacDonald	Department of Psychology
Michael Miller	University (Ex-officio)
Ken Moselle	Island Health
Bernie Paillé	Community (Canadian Institute for Health Information)
Andrea Piccinin	Department of Psychology
Ryan Rhodes	School of Exercise Science, Physical & Health Education
André Smith	Department of Sociology
Kelli Stajduhar	School of Nursing
Jens Weber	Department of Computer Science, School of Health Information Science
E. Paul Zehr	Centre for Biomedical Research, School of Exercise Science, Physical & Health Education

Students

Students provide the Centre on Aging with their expertise in a variety of ways. They become affiliates, provide research assistance, and actively engage in their own research with the centre's constituents.

Affiliates

The following students and post-docs became affiliates in 2014:

- Melody Burgoyne (SDH)
- Mario Cartie (SOCl)
- Sienna Caspar (INTD – post doc)
- Heather Cooke (INTD)
- Emily Duggan (PSYC)
- Illa Fernandez (PSYC)
- Branda Guan (PHSP)
- Taylor Hainstock (SDH)
- Sherin Jamal (SDH)
- Keita Kawai (PSYC)
- Jacob Koudys (PSYC)
- Mushira Mohsin Khan (SOCl)
- Helen Monkman (HEIS)
- Andrey Koval (PSYC – post-doc)
- Susan Kurucz (NURS)
- Jan Mahoney (SPP)
- Lycia Mauxicio-Rodrigues (SDH)
- Chantal Mayo (PSYC)
- Shahrokh Mohammadzadeh (NURS)
- Kaitlyn Roland (SOCl – post-doc)
- Pål Skar (NURS)

Awards

Centre on Aging Scholarships were provided to the following students:

- The Neena Chappell Scholarship for \$950 was received by Tomiko Yoneda who is a Masters of Science student in the Lifespan Development program working with Dr. Andrea Piccinin (Psychology)
- The David Chuenyan Lai Scholarship for \$800 was received by Taylor Hainstock, a Masters of Arts student in the Social Determinants of Health Program whose supervisor is Dr. Denise Cloutier (Geography)
- The Alice Lou-Poy Scholarship for \$675 was received by Nasrin Saleh, a doctoral student in the Social Determinants of Health Program with Drs. Margaret Penning (Sociology) and Anastasia Mallidou (Nursing)

UVic Research Affiliates

Our research affiliates receive awards, generate knowledge with new projects and collaborations, and bring cutting edge equipment to the University of Victoria and the Centre on Aging. Here are the research affiliates at the university who are conducting research on aging:

Name	Area
Adam Con <i>Assistant Professor</i> School of Music	Tai Chi Chuan practice and neuroscience research; how neuroscience relates to motor neurons
Alexandra Branzan Albu <i>Associate Professor</i> Faculty of Engineering	computer vision; medical imaging; virtual reality; modelling and simulation
Anastasia Mallidou <i>Assistant Professor</i> School of Nursing	health services research; knowledge translation; leadership for shaping effective and efficient healthcare systems
André Smith <i>Associate Professor</i> Department of Sociology	health and illness; dementia care; health policy; mental illness; qualitative methodologies; aging; and social inequality
Andrea Piccinin <i>Associate Professor</i> Department of Psychology	life-span development; developmental research methods
Angela Downey <i>Associate Professor</i> Peter B. Gustavson School of Business	health promotion; accounting; finance; and worksite wellness
Anne Bruce <i>Assistant Professor</i> School of Nursing	end-of-life care; nursing services; nursing education; contemplative practices in health care
Brian Christie <i>Associate Professor</i> Division of Medical Sciences	effects of exercise on the human brain
Carl Mosk <i>Professor</i> Department of Economics	the terms of trade; human development and the biological standard of living; economic geography of the Pacific Northwest: historical and contemporary aspects
Carol McDonald <i>Associate Professor</i> School of Nursing	the socio-political context of women's health; in particular, the experiences of underserved groups such as older women and lesbian women; feminist hermeneutics and interpretive inquiry
Catherine Mateer <i>Professor</i> Department of Psychology	cognitive rehabilitation; brain organization for attention, language, memory and praxis; clinical-research studies related to traumatic brain injury, dementia and cerebrovascular disease; electrophysiological and evoked potential correlates of cognitive ability in clinical populations
Cecilia Benoit <i>Professor</i> Department of Sociology	social equity and social justice; health and occupational-based stigmas; stigma and resiliency; community-based research; intersectionality
Colette Smart <i>Assistant Professor</i> Department of Psychology	understanding the neural mechanisms underlying meditation practice in healthy and clinical populations; neural and neuropsychometric correlates of everyday functioning in older adults
David Hultsch <i>Professor Emeritus</i> Department of Psychology	cognitive and personality development during adulthood and aging

Name	Area
David Chuenyan Lai <i>Professor Emeritus</i> Department of Geography	Chinatowns—power structure and leadership; overseas Chinese and development of Chinatowns; urbanization and industrialization of China; historical geography of China
Deborah Rutman <i>Adjunct Professor</i> School of Social Work	family and child well-being and services; community development and social planning; caregiving; adult capacity and guardianship issues
Debra Sheets <i>Associate Professor</i> School of Nursing	gerontology and geriatric nursing; healthy aging; family caregivers; evaluation; geriatric nursing education; end-of-life care
Denise Cloutier <i>Associate Professor</i> Department of Geography	healthy aging; the continuum of care; aging in place; health care reform or restructuring; vulnerable populations; aging in small, rural, and remote communities
Eike-Henner Kluge <i>Professor</i> Department of Philosophy	biomedical, professional, and information ethics
Elaine Gallagher <i>Professor Emeritus</i> School of Nursing	gerontology; health promotion; community development; elder abuse; falls among the elderly
Elizabeth Borycki <i>Assistant Professor</i> Health Information Science	health management, organization, and strategy; disease management, respirology, and geriatrics; nursing informatics and the effect of technology upon nurses' work; evaluation of the impact of information technology in health care; clinical informatics
Freya Kodar <i>Associate Professor</i> Faculty of Law	pensions, debtor, and creditor relations; social welfare law; feminist analysis of law; torts
Holly Tuokko <i>Professor</i> Department of Psychology	clinical neuropsychology; clinical aging; older driver safety; cognitive impairment including dementia; everyday competence
Jeannine Moreau <i>Senior Instructor</i> School of Nursing	critical discourse analysis; women's health; feminism and postmodernism; nursing education; gerontology and ageism
Jodie Gawryluk <i>Assistant Professor</i> Department of Psychology	identification of brain changes — functional or structural —that occur earliest in the Alzheimer's disease process; and, how such changes relate to cognitive ability; clinical neuropsychology; neuroimaging
Karen Kobayashi <i>Associate Professor</i> Department of Sociology	sociology of aging, ethnicity, and immigrant status; family dynamics and intergenerational relationships; health and illness; long-term care; dementia; research design
Kelli Stajduhar <i>Professor</i> School of Nursing	palliative and end-of-life care; family caregiving; home care; HIV/AIDS; oncology; vulnerable and marginalized populations; gerontology; health services research; qualitative and quantitative research methods; mixed method study design; collaborative, participatory research
Lynne Young <i>Professor</i> School of Nursing	family health promotion research; heart health; program evaluation; complex health challenges

Name	Area
Maneesha Deckha <i>Associate Professor</i> Faculty of Law	health law and bioethics; critical animal studies and animal law; feminist analysis of law; law and culture, and law society
Margaret J. Penning <i>Professor</i> Department of Sociology	social support, informal and formal care in relation to chronic illness and disability; mental health and well-being; impact of structural inequalities on health and health care; Canadian health care restructuring and reform
Marjorie McIntyre <i>Professor Emeritus</i> School of Nursing	theoretical challenges in nursing; feminist and hermeneutic explorations in relation to women's health issues
Mauricio Garcia-Barrera <i>Associate Professor</i> Department of Psychology	clinical neuropsychology; executive functioning; concussions; neuroimaging
Michael Hayes <i>Professor</i> School of Public Health and Social Policy	health inequities; disability; public policy; obesity; health literacy; population health promotion
Michael Hunter <i>Associate Professor</i> Department of Psychology	theory of statistical inference; multivariate statistical methods
Michael Masson <i>Professor</i> Department of Psychology	memory and cognition
Michael Prince <i>Lansdowne Professor of Social Policy</i> Studies in Policy & Practice	trends in social policy, past, present, and in the next generations; federal-provincial relations; aboriginal governance; policy making in the community
Neena Chappell <i>Professor</i> Department of Sociology	caregiving to older adults; care for people with dementia; aging and ethnicity; quality and cost-effectiveness of community-based home and residential care; Canadian health care restructuring and reform
Pamela Moss <i>Professor</i> Studies in Policy & Practice	body politics; women with chronic illness; theories of body and embodied theories; women's health; feminist research methodologies; autobiographical writing; contested illness; disabling subjectivities; alternative healing practices; chronic fatigue syndrome; veterans with Post Traumatic Stress Disorder
Patrick McGowan <i>Professor</i> School of Public Health & Social Policy	self-management health education programs for persons experiencing chronic health conditions
Patricia MacKenzie <i>Associate Professor</i> School of Social Work	health care; aging; interdisciplinary practice; rural communities
E. Paul Zehr <i>Professor</i> Neuroscience, Division of Medical Sciences	neural control of human movement after stroke and spinal cord injury; arm and leg coordination during walking; techniques of neurophysiology, biomechanics, motor behaviour, and exercise physiology

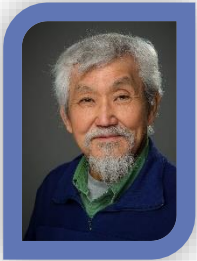
Name	Area
Peter Stephenson <i>Professor Emeritus</i> Department of Anthropology	communal societies (Hutterites); planned communities (Netherlands); health care and research methods employed in vulnerable communities (elderly, indigenous peoples, refugees)
Rebecca Warburton <i>Associate Professor</i> School of Public Administration	error reduction and patient safety in health care; evidence-based medicine; evidence-based public policy and healthy public policy; economic evaluation methods; health care technology assessment; population health; socioeconomic determinants of health; child poverty; children in care; impact of medical premiums on access to care; and the importance of public administration of medicare
Ronald Skelton <i>Associate Professor</i> Department of Psychology	cognitive neuroscience; recovery of function after traumatic brain injury; spatial learning and memory; virtual environments
Ryan Rhodes <i>Professor</i> School of Exercise Science, Physical & Health Education	exercise adherence; intervention strategies to promote physical activity; social cognitive theories of exercise behaviour change; personality and exercise behaviour; exercise and quality of life; exercise among special populations
Sandra Hundza <i>Associate Professor</i> School of Exercise Science, Physical & Health Education	neural control of human movement; neural control of limbs and trunk during walking with aging, after injury (e.g., stroke), and with disease; rehabilitation and assistive devices and technologies related to mobility
Scott Hofer <i>Director of the Centre on Aging, Professor, Mohr Chair in Adult Development and Aging</i> Department of Psychology	identification and explanation of individual differences in developmental and aging-related processes; analysis and evaluation of longitudinal and life course studies; intensive measurement designs; developments in research methodology focused on measurement and analysis of change
Stuart MacDonald <i>Associate Professor</i> Department of Psychology	patterns and predictors of cognitive decline in the healthy elderly; developmental transition between primary and secondary aging
Valerie Kuehne <i>Professor</i> School of Child & Youth Care	intergenerational caregiving; child development and human development through the life course; multidisciplinary practice with children and families
Zheng Wu <i>Professor</i> Department of Sociology	family demography; immigration; social gerontology; sociology of mental health; quantitative methods

Community and Knowledge Mobilization

The current strategic plan for the University of Victoria proposes that: “As an institution, we have made a commitment to civic engagement and to serving communities locally and around the world.” This type of engagement is the cornerstone of research and knowledge mobilization conducted at the Centre on Aging. We embrace the institutional view that: “This entails furthering relationships with organizations and groups in the public, private and non-profit sectors locally, provincially, nationally and internationally.” The centre’s engagement included a number of established activities as well as new partnerships described here:

International Day of Older Persons (IDOP) Lecture

Long lifespans are known to occur in certain families, raising the possibility that longevity may be an inherited trait. How do we identify and characterize genes that influence lifespan, and how does this information improve our understanding of the biochemical basis for aging? On October 1st, Dr. Ishiguro led a dialogue on this question, the current research and engaged the audience with new possibilities.



From 1977 to 2006, Ed Ishiguro served the University of Victoria in a variety of capacities during his tenure as a faculty member in the Department of Biochemistry and Microbiology, including eight years as department Chair. He was the recipient of the Faculty of Science Teaching Excellence Award in 2005 and the UVic Alumni Association Harry Hickman Award for Teaching Excellence in 2006. He became a Professor Emeritus in 2006. In “retirement”, Ed continues to teach at UVic and, for the past three years, at Camosun College.

Café Scientifique

The Centre on Aging successfully completed the Café Scientifique program funded by the Canadian Institutes of Health Research (Dr. Holly Tuokko, principal investigator). No future funding is available for this activity.

The 2014 presentations were:

- January 29, 2014: **Dr. Maneesha Deckha**
 - “Legalizing Assisted Suicide – a step toward equality for vulnerable groups?”
 - Victoria News article & interview; opinion piece: “OUR VIEW: Right-to-die law needs updating”
- March 5, 2014: **Dr. Vicky J. Scott**
 - “A Path to Healthy Aging: Fall and Fire Prevention Among Older Aboriginal People”
- May 7, 2014: **Dr. Anne Bruce**
 - “Keeping secrets: Living with life threatening illness”

IdeaFest

The Centre on Aging coordinated a self-guided tour of research centres and labs on the UVic campus entitled: Research around the Ring, co-hosted with the Centre for Biomedical Research. The tour gave a “behind the scenes” look at research and gave students, faculty and the community an opportunity to participate in lab/centre specific events. Attendees saw the results of research conducted by students, faculty and our community partners, and we gave prizes to individuals who gathered stamps in a ‘Passport to Research’.

Activities in R Hut included:

- Self-Management workshop with Dr. Patrick McGowan
- Candrive clinic with Dr. Phyllis McGee
- Tour of the R Hut Measurement Room with Victoria Longitudinal Study staff
- Posters with faculty and staff available to answer questions at R Hut
 - Neena Chappell and Carren Dujela
 - Denise Cloutier
 - Karen Kobayashi

Masterminds

The ninth annual Masterminds lecture series, offered by the University of Victoria Retirees' Association (UVRA) and the Centre on Aging with support from the University of Victoria, took place every Wednesday evening from April 9 to April 30, 2014. This lecture series engaged the community while highlighting the ongoing research and continuing contributions of UVic retirees, giving the community an opportunity to learn from a lifetime of research, creativity, and involvement. The 2014 lectures were:

- April 9, 2014 • **Dr. Fong Woon**
 - "I Did It My Way: Memoir of A Woman from Hong Kong"
 - Dr. Fong Woon grew up in Hong Kong, immigrated to Canada in 1968. After obtaining a PhD in sociology, she taught at UVic's Department of Pacific and Asian Studies. She discussed her experiences, including surviving the Japanese occupation of Hong Kong and its grim post-war conditions, coming to Canada and confronting covert racism while seeking academic employment, and her ongoing search for identity in both Hong Kong and her adopted country.
- April 16, 2014 • **Dr. Pauline van den Driessche**
 - "Contributions of Mathematical Modelling to Controlling Infectious Diseases"
 - Ever wonder how public health officials determined their response to infectious diseases? During her career at UVic, Dr. Pauline van den Driessche applied new mathematical methods to study the dynamics of epidemics. In her presentation she explained how mathematical models are used to predict and monitor the spread of infectious diseases such as influenza, measles and malaria and to estimate the percentage of the population requiring vaccination.
- April 23, 2014 • **Dr. Andrew Rippin**
 - "Studying Islam in the Academic Context"
 - Dr. Andrew Rippin, UVic Professor Emeritus of Islamic History, has written many books and articles on Islam. In his presentation he explored how the study of Islam in the academic context has changed over the past 40 years and how scholars have come under a sometimes unwelcome spotlight. He discussed the factors that have made the subject academically controversial as well as a vehicle for cross-cultural understanding.
- April 30, 2014 • **Dr. Martin Collis**
 - "Healing, Humour and High Level Wellness"
 - Dr. Martin Collis has been at the forefront of fitness and healthy living throughout his academic life. In his presentation he looked at some of the ways Canadians can live, not only long, but well. He drew on powerful and persuasive research to demonstrate how to maximize the quantity and quality of our days.

Valued Elder Recognition Award (VERA)

The Valued Elder Recognition Award, informally known as VERA, is presented at the International Day of Older Persons Lecture each year. Since its inception in 2000, VERA has evolved while maintaining its commitment to recognizing and honouring individuals who, over their lifetime, have given exemplary service to helping others in the Capital Regional District. Four individuals were nominated in 2014:

- Americk Bhandar, nominated by Burnside Gorge Community Association
- William Buckle, nominated by Friends of Music Society



- Jean E. McKenzie, nominated by Volunteer Victoria
- Narindra (Nindi) Sehmi nominated by India Canada Cultural Association

The award recipient was **Narindra (Nindi) Sehmi**. Nindi is an architect who continues to use his skills in his volunteer life. He provides well thought out spaces and improved organization for his volunteer agencies. The list of organizations is impressive, especially when you consider that while he feels his time with many of the agencies was time limited, they consider him a continuing, valued volunteer.

Activities with Others

- The Victoria Division of Family Practice partnered with us on June 26, 2014 to provide an evening conversation on **“The Science of Optimal Aging”**.
 - Author Bruce Grierson shared the story of the most remarkable 95-year old athlete on the planet and what she can teach us about healthier aging, Olga Kotelko.
 - A panel discussion followed with Bruce, John Crouch (athlete) and Suzanne Montemuro (MD).
- Sponsorship of the Lafayette Health Awareness Forum, **“Building Happier Healthier Lives”**, October 2, 2014.
 - Dr. John F. Helliwell, co-editor of the *World Happiness Report* spoke about happiness and its place and influence in our lives.
 - The Lafayette String Quartet performed.

Funding

Research funding amounts are given as the total amount of the funding award. **Funding is only listed once, in the year the funding is received, regardless of the length of the research project. Total funding in 2014 was \$28,659,002.**

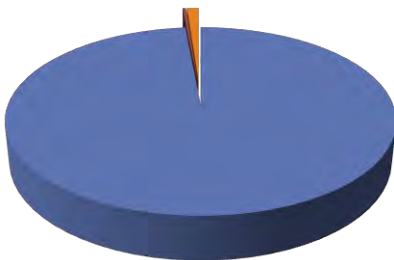
Funding by Function

Total research funding:	\$28,230,740
Total knowledge mobilization:	\$93,970
Total infrastructure funding:	\$334,292

Funding by Source

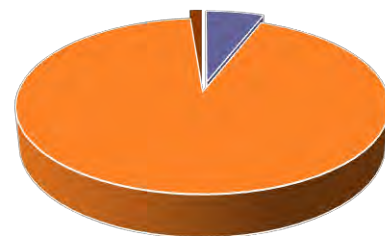
Total funding from Tri-Council sources:	\$26,602,652
Total funding from UVic:	\$353,292
Total funding from other sources:	\$1,703,058

Total Funding by Function



■ research ■ knowledge mobilization ■ infrastructure

Total Funding by Source



■ Other ■ Tri-Council ■ UVic

Publications

Centre on Aging student and research affiliates at the University of Victoria participate in the peer review evaluation of their research work. In 2014, 23 books and book chapters were published – many in collaboration with other affiliates – and 128 journal articles were completed.

Books and Book Chapters

Andersen, O. K., Klimstra, M., Thomas, E., Loadman, P. M., **Hundza, S. R.**, & **Zehr, E. P.** (2014). Human cutaneous reflexes evoked with simultaneous multiple nerve stimulation during rhythmic locomotor-like arm and leg cycling in stroke subjects. In W. Jensen, O. K. Andersen, & M. Akay (Eds.), *Replace, repair, restore, relieve: Bridging clinical and engineering solutions in neurorehabilitation: Proceedings of the 2nd International Conference on NeuroRehabilitation, ICNR2014, 24-26 June 2014, Aalborg, Denmark* (pp. 255-261). Springer. (Biosystems and Biorobotics; No. 7)

Barss, T. S., Taryn, K., & **Zehr, E. P.** (2014). Equivalent bilateral early latency cutaneous reflex amplitudes during graded contractions in right handers. In W. Jensen, O. Kaeseler Anderson, & M. Akay (Eds.), *Replace, repair, restore, relieve – Bridging clinical and engineering solutions in neurorehabilitation, biosystems, & biorobotics (volume 7)* (pp. 279-287). Switzerland: Springer International Publishing.

Bruce A. (2014). Opening conversations: Dilemmas and possibilities of spirituality and spiritual care. In **M. McIntyre & C. McDonald** (Eds.), *Realities of Canadian nursing: Professional, practice and power issues*, 3rd Ed. (pp. 353-357). Philadelphia: Lippincott Williams & Wilkins.

Chappell, N. L., & **Penning, M. J.** (2014). Health and aging (revised chapter). In R.J. Brym (Ed.), *New society: Sociology for the 21st century 7th edition* (pp. 416-437). Toronto, ONT: Nelson.

Doern, G. B., **Prince, M. J.**, & Schultz, R. J. (2014). *Rules and unruliness: Canadian regulatory democracy, governance, capitalism, and welfarism*. Montreal and Kingston: McGill-Queen's University Press.

Fiala, B., & **Rhodes, R. E.** (2014). Understanding exercise action control: moderation of intensity on physical activity intentions and behavior in a Canadian university sample. In V. L. Rush (Ed.), *Planned behavior: Theory, applications and perspectives* (pp. 73-94). New York: Nova Science Publishers.

Kaushal, N., & **Rhodes, R. E.** (2014). Exploring personality and physical environment as predictors of exercise action control. In *Psychology of extraversion perspectives in psychology research* (pp. 91-105). New York: Nova Science Publishers.

Lai, D. C. (2014). 加拿大华侨移民簡史, 1858-2013 (A brief history of Canadian Chinese migration, 1858-2013). In 仲偉合主編 “加拿大內政与外交研究” Zhong Wei Ge (Ed) *Research on Canadian domestic affairs and foreign diplomacy*, 廣州: 世界圖書出版社 (pp. 177-189). Guangzhou: World Books Publisher.

Moss, P. (2014). Everyday spiritual healing in Springsteen's lyrics: Mary, Maria and the intensity of redemption. In G. J. Andrews, P. Kingsbury, & R. A. Kearns (Eds.), *Soundscapes of wellbeing in popular music* (pp. 225-236). Burlington, VT and Farnham, Surrey: Ashgate Publishing.

- Moss, P., & Prince, M. J.** (2014). *Weary warriors: Power, knowledge, and the invisible wounds of soldiers*. New York, NY: Berghahn Books.
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