



THE ARTHRITIS RESEARCH CANADA
BOARD MEETING – THURSDAY, SEPTEMBER 9, 2021
ANNUAL REPORT OF THE SCIENTIFIC DIRECTOR

TRAINEES

New Trainees

Sarah Cooper (Supervisor: **Deborah Marshall**) is a new Master's student in the Department of Community Health Sciences at the University of Calgary. Her thesis project title is *“Evaluating key performance indicators in juvenile idiopathic arthritis to improve quality of care”*.

Bocheng Jing (Supervisor: **Hui Xie**) is a new Master's student in the Faculty of Health Sciences at Simon Fraser University and at the Vancouver Centre. He will be working with Dr. Xie on new statistical methods to deal with missing data in datasets where people are followed over long periods of time. His thesis will be entitled *“Longitudinal missing data sensitivity analyses and Bayesian causal inference research”*.

Alexandra Legge is a new Postdoctoral student in the Division of Rheumatology (Supervisor: **Diane Lacaille**) at Arthritis Research Canada Vancouver. Her project will consist of *“developing a frailty index for rheumatoid arthritis for studies using administrative health data”*. This will help researchers identify people at higher risk of poor health outcomes.

Xiaoxiao Liu (Supervisor: **Deborah Marshall**) is a new Postdoctoral student in the Department of Community Health Sciences at the University of Calgary. Her research project is *“Identifying service gaps between primary and specialty care for patients with rheumatoid arthritis – improving access to care”*.

Justin Losciale (Supervisor: **Jackie Whittaker**) joined Arthritis Research Canada Vancouver as a new PhD student in the Department of Rehabilitation Sciences at UBC. Justin's research will focus on *“Understanding the interactions between modifiable risk factors for knee osteoarthritis after knee injuries”*.

Julia Mucha is a new Master's student in the Department of Rehabilitation Sciences at UBC (Supervisor: **Linda Li**) at Arthritis Research Canada Vancouver. Her thesis project will examine *“how physical activity counselling using Brief Action Planning online influences patient self-management in individuals with rheumatoid arthritis”*.

Thalia Otamendi (Supervisor: **Linda Li**) joined Arthritis Research Canada Vancouver as a new PhD student in the Department of Rehabilitation Sciences at UBC. Thalia's research focuses on *“The psychological aspects of concussion recovery and finding ways to improve psychological care for concussion patients”*.

Anh Pham (Supervisor: **Allyson Jones**) is a new Postdoctoral Fellow in the Department of Rehabilitation Medicine at the University of Alberta. Her postdoctoral fellowship research focuses on *“using data from electronic medical records to study rheumatoid arthritis diagnosis and management in primary care”*.

Smruthi Ramachandran (Supervisor: **Linda Li**) joined Arthritis Research Canada Vancouver as a new Master’s of Science student in the Department of Rehabilitation Sciences at UBC. Her thesis project is on *“Knee OA Mobile Application for Screening and Managing Early Knee Osteoarthritis - A Feasibility Study”*.

Teresa Szlachetka (Supervisor: **Diane Lacaille**) has returned from a one-year leave to complete her Master’s in Experimental Medicine at UBC on *“Determinants of Cognitive Function in Rheumatoid Arthritis Patients”*.

Viviane Ta (Supervisors: **Susan Bartlett** and **Annett Körner**) is a Master’s student in the Counselling Psychology program at McGill University. Her current project uses data from the Canadian Early Arthritis Cohort (CATCH) to examine *“Sociodemographic and psychological factors related to medication beliefs in patients with early rheumatoid arthritis”*.

Ellen Wang is a new PhD student in the Department of Rehabilitation Sciences at UBC (Supervisor: **Linda Li**) at Arthritis Research Canada Vancouver. Her PhD thesis research will provide *“a better understanding of how mobile applications can be used to improve adherence to rehabilitation and exercise training prescribed for the treatment of arthritis”*.

Heather Worthington (Supervisor: **Linda Li**) joined Arthritis Research Canada Vancouver as a new PhD student in the Department of Rehabilitation Sciences at UBC. Her research will focus on *“How to improve access to physiotherapy services”*.

Yuetong Zhou (Supervisor: **Hui Xie**) joined Arthritis Research Canada Vancouver as a new Master’s of Science student in the Faculty of Health Sciences at Simon Fraser University. Her MSc research focuses on *“the impact of Biological disease-modifying anti-rheumatic drugs (bDMARDs) on the risk of various outcomes for rheumatoid arthritis.”*

Completing Trainees

Jenny Leese (Supervisor: **Linda Li**) successfully defended her PhD thesis on July 28th. Her Examining Committee members, including Professor Vikki Entwistle – a world-renowned expert in relational ethics, were deeply impressed by the body of work completed by Jenny during her training. In September, Jenny will start a post-doctoral fellowship with Dr. Ian Graham at the University of Ottawa. She will also be working at Arthritis Research Canada as a visiting post-doctoral fellow.

Jasmin Ma (Supervisor: **Linda Li**) completed her Postdoctoral Fellowship and has started a new position July 1, 2021 as an Assistant Professor of Teaching in the Department of Kinesiology, Faculty of Medicine at UBC Vancouver.

Elly Park (Supervisor: **Allyson Jones**) completed a Postdoctoral Fellowship at the University of Alberta in January 2021 and has started a new position July 1, 2021 as an Assistant Professor of Teaching in the Department of Occupational Science and Occupational Therapy, Faculty of Medicine at the UBC Prince George site.

Flora To-Miles (Supervisor: **Catherine Backman**) successfully defended her PhD dissertation on April 9, 2021, titled “The health-promoting potential of occupations: An exploratory study of adults with and without inflammatory arthritis”.

Summer Students

Hadi Nasrallah Ezzedine, BSc candidate completed a Summer Studentship at Université Laval (Supervisor: **Laetitia Michou**). His project was “*looking at the impact of genetic mutations on the function of cells that create scar tissue in a disease called Dupuytren’s disease*”, where scar tissue forms in the hand and prevents good hand function.

Lily Han completed a summer studentship at the University of Calgary (Supervisor: **Claire Barber**). Her project was a “*Systematic Review of Virtual Care in Rheumatoid Arthritis*” a very topical subject given the switch from in person to virtual care during the COVID-19 pandemic.

Kara Hawker completed a summer studentship at the University of Calgary (Supervisor: **Claire Barber**). Her project was “*A Scoping Review of Tools used to Assess Patient Complexity in the Care of Patients with Rheumatic Disease*”.

Alison Kelsall (Supervisor: **Diane Lacaille**) was awarded a University of British Columbia Faculty of Medicine Summer Student Research Award to complete a Summer Studentship at the Vancouver Centre. Her project title is “*Evaluating an interdisciplinary model of care for arthritis*”.

Emilie McGuire is completing a Summer Studentship at the Vancouver Centre (Supervisors: **Diane Lacaille & Deborah Da Costa**). Her project title is “*Addressing sleep problems in people with rheumatoid arthritis*”. She will be conducting a survey that will inform the adaptation of an online program to help people with arthritis have better sleep.

Michael Wu (Supervisors: **Jasmin Ma** and **Linda Li**) was a Summer Student at Arthritis Research Canada Vancouver. His project was “*Strength training prescription parameters that address barriers in rheumatoid arthritis: A scoping review*”.

Trainee Salary Awards and Honours

Luiza Grazziotin Lago (Supervisor: **Deborah Marshall**) was awarded the Canadian Rheumatology Association & Arthritis Health Professions Association 2021 Annual Scientific Meeting award (\$1,000) for Best Abstract by a Post-Graduate Research Trainee for her abstract presentation entitled *“Disentangling the Web of Costs Associated with Juvenile Idiopathic Arthritis”*.

Nejat Hassen (Supervisor: **Diane Lacaille**) has been awarded a one-year Canadian Institutes of Health Research Frederick Banting and Charles Best Canada Graduate Scholarship-Master’s Award of \$17,500. Her research involves understanding what contributes to quality of life in rheumatoid arthritis. **Ms. Hassen** was also awarded the Muslim Awards for Excellence (MAX) Scholarship for Science and Engineering in the amount of \$3000. The (MAX) Scholarship Fund is a national award given to high school and university students across all science disciplines for high academic achievement and community service. In addition, she was one of 10 finalists (from 110 contestants) to make it to the finals in the UBC-wide two minute thesis presentation competition.

Alyssa Howren (Supervisors: **Mary De Vera & Antonio Aviña-Zubieta**) was the recipient of the Andrew Nord Fellowship in Rheumatology for doctoral students in the amount of \$22,000 from the University of British Columbia Faculty of Graduate and Postdoctoral Studies. **Ms. Howren** was also awarded one of two University of British Columbia Faculty of Graduate and Post-Doctoral Studies John H. McNeill Scholarships in the amount of \$2,217. These awards are made at the recommendation of the Faculty of Pharmaceutical Sciences. Alyssa’s research focuses on mental health in people with arthritis.

Derin Karacabeyli (Supervisor: **Diane Lacaille**, co-investigator **Kam Shojanja**) won best oral presentation by a second year medical resident at the UBC 2021 Annual Resident Research day for his research entitled *“Rheumatology health care providers’ views and practices on obesity and smoking cessation management in rheumatoid arthritis”*.

Darren Mazzei (Supervisor: **Deborah Marshall**) was awarded a 2021 University of Calgary Cumming School of Medicine Department of Community Health Sciences 1st Author Publication Award (\$250) for his publication *“Are education, exercise and diet interventions a cost-effective treatment to manage hip and knee osteoarthritis? A systematic review”*, which was recently published in *Osteoarthritis and Cartilage*.

Gloria Li (Supervisor: **Antonio Aviña-Zubieta**) has received three salary awards for her PhD project *“The risk of multiple sclerosis among users of tumor necrosis factor alpha: A Canadian population-based study”*! Last year, she had received a Doctoral award from the CIHR. This year she was awarded a \$63,000 3-year salary award from The Arthritis Society and a \$72,800 4-year Doctoral Fellowship from the University of British Columbia. Ms. Li also received a \$15,000 University of British Columbia Graduate Student Award in recognition of her academic achievements.

Justin Losciale (Supervisor: **Jackie Whittaker**) has been awarded the University of British Columbia Jane Hudson Alumni Scholarship in Physical Therapy in the amount of \$6,150. This is awarded to a promising graduate student in the PhD in Rehabilitation Sciences Program. Justin's research explores modifiable risk factors for knee osteoarthritis after knee injuries.

Smruthi Ramachandran (Supervisor: **Linda Li**) was awarded a University of British Columbia Graduate Student Award (\$4000) in recognition of her academic achievements.

Linda Truong (Supervisor: **Jackie Whittaker**) collected many accolades! She has been awarded a Fellowship award in the amount of \$165,000 for 3-years by the Canadian Institutes of Health Research, as well as a University of British Columbia 4-Year Fellowship Award for her project *"The role of psychological, social, and contextual factors in recovery and return to sport after a sport-related knee injury"*. Additionally, Ms. Truong received the 2020 Arthritis Society Vancouver Community Group James Kwan Scholarship (\$1,050), as well as the 2020 Arthritis Society Vancouver Branch Scholarship which is awarded annually to an MSc or PhD student with a physiotherapy focus in the area of Arthritis (\$1,650). She also had two abstract awards this year: 1) Award for Highest Rated Abstracts by Young Investigators (\$100USD) for her abstract presented at the OARSI 2021 Virtual World Congress on Osteoarthritis in April, looking at the attitudes, priorities and perceptions of youth toward physical activity after a sport-related knee injury; 2) her abstract *'Arthritis is always in the back of my mind'. A qualitative study describing youth's attitudes, priorities, and perceptions towards physical activity and exercise-therapy after a sport-related anterior cruciate ligament tear'*, was chosen as one of the top 8 presented at the Canadian Institutes of Health Research Institute of Musculoskeletal Health and Arthritis Research Presentation Day on February 5, 2021. She also received the British Journal of Sport Medicine (BJSM) People's Choice Award for best presentation at the 2020 La Trobe Sport and Exercise Medicine Student Showcase (Prize valued at \$250).

FACULTY

Scientific Awards

Cheryl Barnabe is the Principal Investigator on a two-year \$99,796 (CIORA) grant for her project *"Supporting equitable outcomes in diverse populations with rheumatoid arthritis through appropriate guideline implementation, practice and policy approaches"*. Co-Investigators include **Diane Lacaille**, **Glen Hazlewood**, and **Cheryl Koehn**.

Cheryl Barnabe is a Co-Investigator on a one-year \$199,806 Canadian Institutes of Health Research COVID19 Operating Grant titled *"Opioid use disorder care during COVID-19 disruptions"*. The Principal Investigators are Bonnie Healy, Rita Henderson and Patrick McLane.

Cheryl Barnabe is also a Co-Investigator on a two-year \$187,674 Canadian Institutes of Health Research COVID-19 Rapid Research grant titled *“Equity in emergency department utilization in Alberta for priority populations during the COVID-19 pandemic: Exploring impacts of changes to healthcare and healthcare utilization through administrative data analysis and nominal group techniques”*. Principal Investigators on this project are Rita Henderson, Grant Innes, Eddy Lang, Patrick McLane and Rhonda Rosychuk.

Cheryl Barnabe is also a Co-Investigator on a one-year \$200,000 award from the Foundation for Advancing Family Medicine at the College of Family Physicians of Canada and the CMA Foundation, for a COVID-19 Pandemic Response and Impact Grant Program (Co-RIG) – Phase I for the project entitled *“Equity in Emergency Department Utilization in Alberta for Priority Populations during the COVID-19 Pandemic: Exploring Impacts of Changes to Healthcare and Healthcare Utilization through Administrative Data Analysis and Nominal Group Techniques”*. The Principal Investigator is Lynden Crowshoe.

Susanne Benseler is a Co-Principal Investigator on a \$96,885 one year top-up grant from the Canadian Institutes of Health research for the project *“UCAN CAN DU and beyond: Towards a genomic partnership for childhood arthritis”*. Other PI’s are Rae Yeung, Joost Swart, and Nico Wulffraat. Co-Investigators include Claire Bombardier, Joseph Cafazzo, Niels Eijkelkamp, Anna Goldenberg, Jaime Guzman and **Deborah Marshall**.

Ines Colmegna is a Co-PI with Anastasia Nijnik and David Langlais on a five-year \$999,000 project grant from the Canadian Institutes of Health Research entitled *“Hematopoietic stem and progenitor cells as mediators of trained immunity in rheumatoid arthritis”*.

Deborah Da Costa is the Principal Investigator on a two-year \$118,903 Canadian Rheumatology Association Canadian Initiative for Outcomes in Rheumatology Care (CIORA) grant for her project *“Adapting and evaluating an evidence-based online behavioural intervention to manage insomnia in patients with rheumatoid arthritis”*. Co-Investigators include **Diane Lacaille** and **Paul Fortin**.

Paul Fortin and **Ines Colmegna** are Co-Principal Investigators on a one-year \$800,000 grant from the Province of Quebec Ministry of Health titled *“COVID-19 Vaccine in Immunosuppressed Adults with Autoimmune Diseases”*. Sasha Bernatsky, Brian Ward, Louis Flamand and Marc Dionne are Co-Investigators.

Mark Harrison and **Nick Bansback** are Co-Principal Investigators on a 3-year \$298,350 Canadian Institutes of Health Research Grant titled *“Evaluating the impact of a mandatory switching policy for biosimilars”*. Co-Investigators include **Aslam Anis**, Fiona Clement, **Mary De Vera**, Michael Law and others.

Alison Hoens is a Knowledge Translation Collaborator on a one-year \$220,000 Michael Smith Foundation for Health Research grant titled *“Respiratory outcomes following COVID-19 infection in British Columbia: A prospective patient registry”*. The Principal Investigator on this project is Chris Carlsten and Co-Investigators include Christopher Ryerson, Aditi Shah and Alyson Wong.

Allyson Jones is the Principal Investigator on a three-year \$299,652 Strategic Operating Grant from The Arthritis Society titled *“Rheumatoid Arthritis in Canadian Primary Care Settings: Epidemiology, Management of Care and Patient Experience”*. Neil Drummond is a Co-PI and **Claire Barber** and **Cheryl Barnabe** are Co-Investigators.

Diane Lacaille is a Co-Investigator on a two year \$402,500 grant funded by the Scottish Government. The grant is a partnership with the University of Aberdeen, and is titled *“Supporting people with musculoskeletal disorders in Scotland to remain in work: adapting the Making it Work™ intervention developed for people with inflammatory arthritis in Canada”*. The Principal Investigators are Gary J MacFarlane and LaKrista Morton of the University of Aberdeen. Other Co-Investigators are Rosemary Hollick, (Aberdeen) and Karen Walker-Bone of the University of Southampton.

Diane Lacaille, Antonio Aviña-Zubieta, Cheryl Barnabe, Paul Fortin, Ines Colmegna and **Glen Hazlewood** are Co-Investigators on a two year \$3,187,905 grant funded by the Canadian Immunization Task Force (on behalf of the Public Health Agency of Canada) titled *“Standard Operating Procedure (SOP) for Safety immUnogenicity of Covid-19 vaCcines in systEmic immunE mediated inflammatory Diseases (SUCCEED)”* study. Drs. Aviña & Lacaille will receive \$119,263 over two years for leading the British Columbia arm of the study. Sasha Bernatsky is the Principal Investigator of the overall grant.

Linda Li is a Co-Principal Investigator on a 6-year \$631,128 award from the Canadian Institutes of Health Research titled *“SuPA Mobility: Supporting Physical Activity to promote mobility in mobility-limited older adults”*. Other Principal Investigators are Teresa Liu-Ambrose and Jennifer Davis.

Linda Li is a Co-Investigator on a 5-year \$455,175 Canadian Institutes of Health Research grant titled *“Treating children with arthritis according to their individual probability of outcomes and response to treatments - The PERSON-JIA Trial”*. The Principal Investigator is Jaime Guzman. Co-investigators include Karine Toupin-April and Lori Tucker.

Linda Li is also a Co-investigator on a 3-year \$294,080 grant from The Arthritis Society titled *“PERSON-JIA: the Personalized Estimates of Response and Severity Outcomes in Newly-diagnosed Juvenile Idiopathic Arthritis trial”*. The Principal Investigator is Lori Tucker and Co-Investigators again include Karine Toupin-April, and Jaime Guzman.

Linda Li and **Glen Hazlewood** are Co-Investigators on a \$1,000,000 one-year grant from The Canadian Institutes of Health Research titled “COVID-19 Evidence Network to support Decision-making (COVID-END)”. The Principal Investigators are John Lavis, Jeremy Grimshaw, Nancy Santesso, and Andrea Tricco.

Deborah Marshall is the Principal investigator on a two-year \$19,800 grant from an international partnership between the University of Calgary and the University of Aberdeen for an International Researcher Partnership Workshop Grant titled “Bringing the Patient Voice into Decision Making in Health”.

Honours

Michal Abrahamowicz was inducted as an Honorary Lifetime Member of the International Society of Clinical Biostatistics (ISCB). Michal was honoured at the 42nd meeting of the ISCB hosted in Lyon (virtually) in July. This is only the 11th time over its 20 year history that the ISCB has granted honorary membership and Michal is the first Canadian to be inducted in this capacity.

Cheryl Barnabe was awarded the O’Brien Institute Mid-Career Research Leader Award, University of Calgary, a \$1,000 award presented to an individual who has, at a mid-career stage, made outstanding contributions to research.

Cheryl Barnabe was awarded the Cumming School of Medicine’s Watanabe Distinguished Achievement Award for outstanding contributions by a senior faculty member.

Cheryl Barnabe was promoted to Full Professor, the highest academic rank, at the Cumming School of Medicine, University of Calgary.

Cheryl Barnabe has been appointed as the Deputy Director of the McCaig Institute for Bone and Joint Health at the University of Calgary.

Cheryl Barnabe has been awarded an Equity, Diversity and Inclusion Award from the Department of Medicine, University of Calgary/Alberta Health Services. The awards celebrate individuals and groups who have made outstanding contributions towards creating an equitable, welcoming and inclusive environment at the University of Calgary.

Laetitia Michou has been awarded the 2021 Jeff Shiroky award by the Laurentian Conference of Rheumatology in recognition of contributions in the field of arthritis research. Dr. Michou was recognized for her research program on Paget’s disease of bones.

Laetitia Michou was also given an Award recognizing teaching and supervision in Rheumatology from the Department of Medicine at Université Laval.

Jackie Whittaker and **Alison Hoens** were selected as winners of the Canadian Physiotherapy Associations Centenary Medals of Distinction, created to mark the Association's 100th Anniversary. The award recognizes leaders, role models, and innovators, honouring those who have made an impact on the Physiotherapy profession. **Jackie Whittaker's** medal recognized her research contributions, as well as her contributions teaching innovative content in entry to practice physiotherapy programs. **Alison Hoens** was recognized particularly in her role as a Knowledge Broker <https://physicaltherapy.med.ubc.ca/physical-therapy-knowledge-broker/>.

Deborah Marshall has been inducted into the Canadian Academy of Health Sciences, one of the highest honours for a scientist. Dr. Marshall is a champion of assessing health care systems - a rigorous approach that uses evidence to inform health policy development. Her research includes simulation modelling at the individual patient level considering care pathways, patient preferences and resources required to deliver health services in the context of precision health.

Signed:



Diane Lacaille, MD, MHSc, FRCPC
Mary Pack Chair in Rheumatology Research,
Scientific Director, Arthritis Research Canada
Professor of Medicine, University of British Columbia

Appendix I

FUNDING FROM JULY 1, 2020 TO JUNE 30, 2021

AIHS - Alberta Innovates Health Solutions; CAN - Canadian Arthritis Network; CIORA - Canadian Initiative for Outcomes in Rheumatoid Arthritis; CIHR - Canadian Institutes of Health Research; CRA - Canadian Rheumatology Association; CHHM - Centre for Hip Health and Mobility; HSFC - Heart and Stroke Foundation of Canada; EULAR - European League Against Rheumatism; MSFHR - Michael Smith Foundation for Health Research; NCI - National Cancer Institute; NIH - National Institutes of Health; NCE - Networks of Centres of Excellence; TAS - The Arthritis Society;; UBC - University of British Columbia; SPARTAN - Spondyloarthritis research and treatment network ; SRCC - Spondyloarthritis Research Consortium of Canada

SCIENTIST FUNDING - Operating Grants							
Funding Agency	Title	PI(s)	Co-I(s)	Annual Amount	Total Awarded	Start Date	End Date
CIHR	New statistical methods for cohort studies of adverse effects of medications	Abrahamowicz M	Bernatsky S, Blais L, Brophy J, Buckeridge D, Bérard A, Capek R, De Vera M , Dixon W, Durand M, Fortin P , Klein M, Lacaille D , Moodie E, Moura C, Pilote L	\$143,077	\$715,383	Jul-16	Jun-21
CIHR/SPOR Support Units/BC SUPPORT	Support for People and Patient-Oriented Research and Trials (SUPPORT) - CHEOS	Anis A		\$329,384	\$1,646,920	Nov-16	Oct-21
CIHR	Risk of Retinal Toxicity in Patients with Systemic Lupus Erythematosus and Rheumatoid Arthritis on Long-term Hydroxychloroquine Therapy	Avina-Zubieta A	H Choi , M Dawes, M Etminan, D Lacaille , LC Li , D Maberley, K Shojania , H Xie	\$141,525	\$707,625	Mar-19	Feb-24
CIORA	Proof of concept study of an EMR reminder intervention to optimize the primary and secondary prevention of comorbidities in people with inflammatory arthritis	Avina-Zubieta A	D Lacaille , C Barber , J Esdaile , LC Li , O Tseng, H Xie , M Dawes, B Hobson, C Koehn, J Kur, L Nasmith, K Shojania , S Singh	\$47,500	\$95,000	Jul-18	Jun-21
Michael Smith Foundation for Health Research	Risk and outcome of COVID-19 in patients exposed to immunosuppressive and immunomodulatory agents (IIA) in British Columbia. A population-based study.	Avina-Zubieta A	D Lacaille , H Xie , J Kopec , J Loree	\$149,898	\$149,898	Apr-20	Mar-21

BC SUPPORT Unit COVID-19 Partner Engagement Funding	Risk and outcome of COVID-19 in patients exposed to immunosuppressive and immunomodulatory agents (IIA) in British Columbia. A population-based study - Partner Engagement Activities	Avina-Zubieta A	D Lacaille, H Xie, J Kopec, J Loree	\$6,750	\$6,750	Apr-20	Mar-21
CIHR	Tumor necrosis factor inhibitors (TNFi) and Risk of Multiple Sclerosis	Etminan M, Avina-Zubieta JA	D Lacaille, H Tremlett, L Targownik, RA Marrie, GG Kaplan, JN Pena-Sanchez, H Xie	\$62,333.33	\$187,000	Sep-19	Aug-22
CIHR	Air pollution and systemic autoimmune rheumatic diseases	Bernatsky S, Smargiassi A	M Abrahamowicz, J Avina-Zubieta, P Awadalla, H Chen, T Dummer, M Goldberg, S Jean, M Johnson, D Levy, J Spinelli, S Weichenthal, J Widdifield	\$128,775	\$772,650	Oct-18	Sep-24
CIORA	Work disability and function in systematic lupus erythematosus: a national mixed-methods sequential explanatory study	Touma Y	Shaw W, Ho M, Avina-Zubieta JA, Bingham K, Rozenbojm N, Bernatsky S, Pineau C, Vinet E, Fortin P, Mastro M, Legault K, Peschken C, Keeling S, Stieman A, Silverman E, Reynolds J, Haaland D, Pope J, Beel M, Ivory C, Lim L, Katz P, Gladman D, Urowitz M, Sanchez-Guero J	\$40,000	\$120,000	Jun-20	Jan-23
CIHR	Canadian Musculoskeletal (MSK) Rehab Research Network	MacDermid J, Backman C, Birmingham T, Bouer L, Marshall D, Moyer R, Ronsky J, Roy JS, Thomas A	Knowledge User: K Hofstetter, M Hunt, J Whittaker	\$399,398	\$1,996,990	Jan-20	Dec-24

CIORA	Health Economic Evaluation of the Mandatory Switching Policy for Biosimilars in Patients with Rheumatoid Arthritis	Bansback N		\$49,000	\$98,000	Jul-20	Jun-22
CIHR	Evaluating the impact of a mandatory switching policy for biosimilars	Bansback N, Harrison M	Anis A, De Vera M, Clement F, Law M, Beall R	\$33,150	\$99,450	Apr-21	Mar-24
CIHR	Improving access to medicines in Canada and abroad	Law M	N Bansback, L Goldsmith, M Harrison, AM Holbrook, S Majumdar, M Mamdani, S Wong	\$89,214	\$624,498	Jul-16	Jun-23
CIHR	Design for better health: user-centred design and evaluation of interactive media for health education, communication and decision-making	Witteaman H	J Ancker, P Archambault, N Bansback, MD Beaulieu, J Bender, J Bettinger, C Chambers, D Chan, H Colquhoun, S Desroches, et al	\$8,510	\$544,538	Jul-16	Jun-21
CIORA	Optimizing early treatment strategies in early RA through shared decision-making	Barber C, Hazlewood G	Bansback N, Li LC, Mosher D, Proulx L, Richards D	\$59,850	\$119,700	Jul-19	Jun-21
CIHR	Understanding the effect of adherence to system-level performance measures on outcomes for rheumatoid arthritis	Barber C, Lacaille D, Widdifield J	Abrahamowicz M, Avina-Zubieta JA, Barnabe C, Esdaile JM, Faris P, Hazlewood G, Katz S, MacMullan P, Marshall DA, Mosher D, Xie H	\$76,500	\$229,500	Apr-20	Mar-23
CIHR	Alberta Indigenous Mentorship in Health Innovation Network (AIM-HI Network)	Barnabe C, Healy B, Tailfeathers E, Crowshoe L, Currie C, Fellner k, Henry R, Voyageur C	R Weasel Fat, J Baker, B Bastien, S Chisan, A Greenshaw, R Henderson, A Kennedy, S Kutz, A Loyola-Sanchez, L ManyGuns, T Oosterbroek, M Rock, W Shotyk	\$200,000	\$1,000,000	Apr-17	Mar-22

CIHR	Indigenous Primary Health Care and Policy Research (IPHCPR) Network in Alberta	Barnabe C , Crowshoe L, Bablitz C, Green M, Henderson R, Kennedy A, Montesanti S, Murry A, Roach P, Tailfeathers E	Auger C, Auger J, Baker J, Chowdhury C, Crowshoe T et al	\$700,000	\$3,500,000	Oct-19	Sep-24
CIORA	Supporting equitable outcomes in diverse populations with rheumatoid arthritis through appropriate guideline implementation, practice and policy approaches	Barnabe, C	G Hazlewood , A Fifi-Mah, N Johnson, D Lacaille , B Thombs, R Henry, T Lane, M Kuluva, C Koehn	\$49,898	\$99,796	Jun-21	May-23
CIHR	SHRed Injuries: Preventing Injuries and their consequences in youth sport and recreation	Emery C	C Barnabe , K Belton, L Benson, A Black, P Elson, R Ferber, P Fuselli, C Goulet, E Brent, M Jordon, S Kenny G Kuntze, C Lebrun, K MacDonald, A Macpherson, DA Marshall, J Whittaker et al	\$148,493	\$1,039,450	Jul 18	Jun 25
CIHR	Connect 2 Care: Evaluation of a novel community outreach program for socially vulnerable patients with complex needs	Fabreau G, McBrien K, Nguyen V	C Barnabe , T Braun, W Ghali, E Lang, B Manns, P McLane, K Milaney, P Ronksley, G Salvalaggio, E Spackman, K Tang, N Thain, T Williamson,	\$83,652	\$209,130	Oct-19	Mar-22
CIHR	Understanding and defining quality of care in the emergency department with First Nations members in Alberta	Healy B	C Barnabe , N Eshkakogan, B Holroyd, D Jagodzinsky, S Lamouche, R Rosychuk	\$61,625	\$184,875	Apr 18	Mar 21
CIHR	Opioid Use Disorder Care during COVID-19 Disruptions	Healy BA, Henderson R, McLane P	C Barnabe , L Crowshoe, J Hayward, B Holroyd, E Hyshka, E Lang, K Rittenbach, R Rosychuk, C Sarin, H Virani	\$199,800	\$199,800	Sep-20	Sep-20

The Arthritis Society	Advanced multi-modal imaging to predict early inflammatory arthritis progression	Manske S	C Barnabe, G Hazlewood , P Salat, D Mosher, C Barber , S Barr, R Deardon	\$124,843	\$374,530	Oct-19	Sep-22
	First Nation-Led Integrated Primary Care Coordination for COVID19 Testing, Isolation and Tracking	Crowshoe L, Samanani S, Sarin C, Henderson R, Green M	Kennedy A, Montesanti S, Murry A, Roach P, Barnabe C , Tailfeathers E	\$200,000	\$200,000	Sep-20	Sep-20
CIHR	Equity in Emergency Department Utilization in Alberta for Priority Populations during the COVID-19 Pandemic: Exploring Impacts of Changes to Healthcare and Healthcare Utilization through Administrative Data Analysis and Nominal Group Techniques	R Henderson, G Innes, E Lang, P McLane, R Rosychuk	C Barnabe , L Bill, G Cummings, S Fielding, J Hayward, B Healy, B Holyroyd, K Rittenbach	\$93,837	\$93,837	Jun-20	Sep-20
CIHR	UCAN CAN-DU: Canada-Netherlands Personalized Medicine Network in Childhood Arthritis and Rheumatic Disease	Benseler S , Swart J, Wulffraat N, Yeung R	Bombardier C, Cafazzo J, Eijkelkamp N, Goldenberg A, Guzman J, Ijzerman M, Marshall DA et al	\$204,751	\$1,023,753	Feb-17	Jan-22
The Arthritis Society	Establishing the validity of quality of life measures in young children with juvenile idiopathic arthritis	Benseler S , Currie G	D Marshall , M Twilt, A Ohinmaa, Understanding Childhood with Arthritis Network Canada - Netherlands Personalized Medicine Network in Childhood Arthritis and Rheumatic Disease	\$108,000	\$324,000	Oct-18	Sep-21
CIHR	Population-based longitudinal cohort study of femoroacetabular impingement of the hip using magnetic resonance imaging outcomes	Cibere J	J Esdaile , B Forster, J Kopec , L Li , D Wilson, H Wong,	\$177,225	\$531,674	Oct-18	Sep-21

Province of Quebec Ministry of Health	COVID-19 Vaccine in Immunosuppressed Adults with Autoimmune Diseases	Colmegna I, Fortin PR	Bernatsky S, Ward B, Flamand L, Dionne M	\$800,000	\$800,000	Mar-21	Mar-22
CIHR	Hematopoietic stem and progenitor cells as mediators of trained immunity in rheumatoid arthritis	Colmegna I, Nijnik A, Langlais D		\$199,800	\$999,000	Oct-20	Sep-25
CIORA	Adapting and Evaluating an Evidence-Based Online Behavioural Intervention to Manage Insomnia in Patients with Rheumatoid Arthritis	Da Costa D	D Lacaille, J Savard, P Fortin, E Rahme, C Neville	\$59,452	\$118,903	Jul-20	Jun-22
The Arthritis Society	Mapping the epidemiology and the role of treatments in mental health complications in inflammatory arthritis	De Vera M	D Da Costa, J Puyat, J Esdaile, K Shojanina, A Avina-Zubieta, A Howren,	\$70,000	\$210,000	Oct-18	Sep-22
CIHR	PRECISION: Preventing Complications from Inflammatory Skin, Joint and Bowel Conditions	Esdaile J	C Goldsmith, M De Vera, J Dutz, D Lacaille, LC Li	\$484,538	\$2,422,690	Jul-14	Jun-22
CIHR	Platelets and neutrophils: The two culprits mediating pain in inflammatory arthritis	Boilard, E	P Fortin, C Belleane, S Lacroix	\$182,070	\$910,350	Apr-20	Mar-25
CIHR	Mapping anti-mitochondrial antibodies in systemic lupus erythematosus	Fortin P	M Abrahamowicz, E Boilard, J Rauch	\$138,760	\$416,280	Apr-19	Mar-22
The Arthritis Society	The impact of antimalarial drugs in arthritis patients exposed to SARS-CoV-2 - the CoVIRAL project	Fortin P	E Boilard, D Da Costa	\$150,000	\$300,000	Jul-20	Jun-22
CIORA	Work disability and function in systematic lupus erythematosus: a national mixed-methods sequential explanatory study	Touma Y	Shaw W, Ho M, Avina-Zubieta JA, Bingham K, Rozenbojm N, Bernatsky S, Pineau C, Vinet E, Fortin P, et al	\$60,000	\$120,000	Jun-20	Jan-23

CIHR	A pragmatic registry-based randomized trial of drug tapering in rheumatoid arthritis	Hazlewood G , Bykerk V	N Bansback , R Deardon, L Proulx, G Tomlinson, C Barber , E Keystone, D Richards, P Tugwell, S Bartlett , D Marshall , O Schier, G Boire, J Pope, C Thorne	\$159,694	\$638,776	Apr-18	Mar-21
CIHR	Hydroxychloroquine in systemic lupus	Hazlewood G , Bernatsky S	Abrahamowicz M , Bartlett S , Clarke A , Fortin P , Hanly J, Li LC, Peschken C, Vinet E	\$68,468	\$342,340	Apr-18	Mar-23
CIHR	COVID-19 Evidence Network to support Decision-making (COVID-END)	Lavis J, Grimshaw J, Santesso N, Tricco A	Adams O, Bean T, Bryan S, Diamond D, Dumez V, Fowler R, Greenwood M, Grinspun D, Hayden J, Forest PG, Friedenreich, CM, Gagnon A, Garritty CM, Ghali WA, Guyatt GH, Hazlewood GS , Li LC et al	\$1,000,000	\$1,000,000	Dec-20	Dec-21
CIHR	Comparative Effectiveness and Safety of Biosimilar and Legacy Drugs	Waggas A, Bernatsky S, Boire G, Bykerk V, Lakatos P, Maksymowycch W, Moura C, Targownik L	Choquette D, Hazlewood G , Pilote L, Pope J, Vinet E, Widdifield J	\$314,122.20	\$1,570,611.00	Dec-17	Nov-22
CIHR	Improving pain education across entry-level physiotherapy programs in Canada: An integrated knowledge translation study	Bostick G, Bussieres A, Cooper L, McNiven N, Wideman T, et al	Bement M, Bhanji F, Fishman S, Hudon A, Hoens A (Collaborator) et al	\$120,870	\$604,350	Apr-20	Mar-25
Michael Smith Foundation for Health Research	Respiratory outcomes following COVID-19 infection in British Columbia: A prospective patient registry	Carlsten C	C Ryerson, J Johnston, A Wong, A Shah, A Hoens (Knowledge Broker)	\$220,000	\$220,000	Jun-20	May-21

CIHR	Drug Safety and Effectiveness Network Methods and Applications Group in Indirect Comparisons (DSEN MAGIC) Team	Hutton B, Moher D, Straus SE, Tricco AC, Wells G	AM Abou-Setta, G Hazlewood , B Hemmelgarn, A Hossain, Z Jordan, S Kelly, E Langlois, J Presseau, A Proctor, B Reeves, A Stevens, K Thavorn, M Tunis, J Watt	\$272,174	\$816,522	Sep-19	Aug-22
CIHR	Phase I/II randomized controlled clinical trial of umbilical cord-derived mesenchymal stromal cells in refractory systemic sclerosis	Hudson M, Colmegna I , Farge D	Hoa SA, Laneuville P, Peltier L, Resche-Rigon M, Schnitzer M	\$140,000	\$420,000	Oct-19	Mar-22
CIHR	Characterization of a novel anti-fibrotic peptide for the treatment of scleroderma	Leask A, Philip A	Hudson, M	\$162,180	\$810,900	Apr-21	Mar-26
CIHR	Linking biomechanical and imaging outcomes to better understand the effects of running on knee joint health	Hunt MA	JF Esculier , A Rauscher, J Taunton, D Wilson	\$135,405	\$677,025	Apr-19	Mar-24
The Arthritis Society	Rheumatoid Arthritis in Canadian Primary Care Settings: Epidemiology, Management of Care and Patient Experience	Jones CA , Drummond N	Barnabe C, Barber CEB	\$99,884	\$299,652	Apr-21	Mar-24
Arthritis Alliance of Canada - Legacy Award	Inflammatory arthritis models of care provincial summits: coast-to-coast advocacy for improved arthritis care	Koehn C	Wilhelm L (CAPA), McQuitty S (APAB), Major G (CSA)	\$11,667	\$35,000	Jan-20	Jun-22
CIORA	Safety and effectiveness of biosimilar anti-TNF agents in British Columbia – Exploiting a natural experiment from a change in health policy	Lacaille D	JA Avina-Zubieta, H Xie, J Esdaile Collaborators: C Koehn, T Fazlagic, J Gordon, S Ensworth, C Flanagan, A Kydd	\$57,000	\$114,000	Jul-20	Jun-22

Employment and Social Development Canada - Opportunities Fund for Persons with Disabilities – Working with Employers	Harnessing Talent: Alliance for Recruiting and Retaining Canadians with Disabilities	White M	SM Bruyère, A Day, RE Gewurtz, D Lacaille , C Maheu, F O'Hagan, IZ Schultz, SL Wagner, K Williams-Whit, K Aslanowicz, E. Ballermann, D Boucher, J Friesen, M. Gallina, M Haan, M Parkinson	\$499,879	\$1,499,637	Apr-19	Mar-22
The Arthritis Society	Enhancing the Use of Rheumatology Electronic Medical Records to Evaluate and Optimize Care	Widdifield J	S Bernatsky, D Lacaille , V Ahluwalia, A Singer, K Tu, L Jaakkimainen, D Mosher, C.Thorne, L. Eder, M Zummer, D Haaland	\$99,369	\$298,108	Jan-18	Dec-21
CIHR	Accelerating discoveries: The employment trajectory of young adults with systemic lupus erythematosus	Lim L, Pulenayegum E	D Lacaille , M Oguzoglu, J Stinson, R Woodgate	\$214,200	\$321,300	Apr-20	Sep-22
Canadian Immunization Task Force (on behalf of the Public Health Agency of Canada)	Standard Operating Procedure (SOP) for Safety immUnogenicity of Covid-19 vaCcines in systEmic immunE mediated inflammatory Diseases (SUCCEED)	Bernatsky S,	Chandran V, Bowdish D, Hitchon C, Gingras AC, Haroon N, Inman R, Cook R, Kaplan G, McGeer A, Piguet V, Rahman P, Silverberg M, Watts T, Kuriya B, Garner S, Larche M, Marshall J, Nazy I, Avina-Zubieta JA, Barnabe C , Boire G, Colmegna I, Fortin P, Hazlewood G, Lacaille D , Widdifield J, Colwill K, Wood H	\$59,632	\$3,187,905, (UBC portion is \$119,263)	Apr-21	Mar-23
CIHR	SuPA Mobility: Supporting Physical Activity to Promote Mobility in Mobility-Limited Older Adults	Li LC , Liu-Ambrose T, Davis J	R Falk, K Madden, R Rhodes, M Sadatsafavi, HC Wong	\$105,188	\$631,128	Apr-21	Mar-27
CIHR	Organizational Factors that Foster Engagement-Capable Environments: A Study of Health Research Networks	Banner-Lukaris D, L'Esperance A	S Barnes, A Boivin, S Bryan, S Freeman, D Graham , C Hamilton , D Hartell, D Kandola, LC Li, G MacDonald , E Michalak, N Oelke, M Runte, A Tricco	\$109,650	\$328,950	Oct-19	Sep-22

CIHR	SPOR Evidence Alliance	Tricco A, Straus S, Abou-Setta AM, Barker K, Clement F, Clifford TJ, Colquhoun H, Curran J, Godfrey C, Isaranuwachai W, LeBlanc A, Li LC , Moffitt P, Moher D, Teare GF	Barnabe C , Graham I, Ivers N, Klassen T, Legare F, Mitton C, Morin S, Scott S, Sibely K, Snelgrove-Clarke E, Squires J, plus > 100 investigators	\$999,378	\$4,996,890	Jul-17	Jun-22
BC SUPPORT Unit, BC Academic Health Science Network (AHSN)	Advancing Integrated Knowledge Translation: Understanding Patients' Experiences as Partners in Patient-oriented Research	Li LC , Michalak E	S Bryan, N Bansback , A Hoens , CL Backman , L Nimmon, C Hamilton , J Leese , G Macdonald ,	\$79,167	\$237,500	Sep-18	Aug-21
MSFHR	Implementing an evidence-based exercise program to reduce falls in community-dwelling seniors	Li LC	T Liu-Ambrose, S Murphy, F Feldman, M Oakey, J Davis, J Ma , C Koehn, L Dian, D Jehu, H Xie	\$166,667	\$500,000	Jun-19	May-22
CIHR	Strengthening and validation of a new 360-degree tool to evaluate patient and public engagement in health research	Jeyaraman, M, Shimmin, CA, Abou-Setta, AM, Charatte, CJ, Klassen TP, Li LC , Moore, A, Tricco, AC	T Beaudry, SE Straus, JM Edwards, T Rabbani, KM Sibley, RL Woodgate	\$100,000	\$100,000	Apr-20	Mar-21
CIHR	Medically at-risk drivers: The road to developing evidence-based fitness to drive guidelines	Crizzle A, Elzohairy Y, Vrkljan B	J Dow, G Equakun, LC Li , S Marshall, N Meger, E Mychael et al	\$133,875	\$803,250	Apr-18	Mar-24

MSFHR	Breaking the cycle of recurrent fracture: Scaling up a secondary fracture prevention program in Fraser Health to inform spread across British Columbia	Singh S, Funnell L, Bubela T	Li LC	\$166,667	\$500,000	Jun-19	May-22
CIHR	Treating children with arthritis according to their individual probability of outcomes and response to treatments - The PERSON-JIA Tria	Guzman, J	Cabral D, Feldman B, Li LC , Loughin T, Stringer E, Toupin-April K, Tucker L	\$91,035	\$455,175	Apr-21	Mar-26
The Arthritis Society	PERSON-JIA: the Personalized Estimates of Response and Severity Outcomes in Newly-diagnosed Juvenile Idiopathic Arthritis trial	Tucker L	Guzman J, Cabral D, Feldman B, Li LC , Loughin T, Stringer E, Toupin-April K, Tucker L	\$98,026.67	\$294,080	Apr-21	Mar-26
CIHR	Towards a patient-centered system: Integrating preferences of patients with osteoarthritis into evaluation of health services interventions to improve patient outcomes and health system efficiency	Marshall DA	C Barber , E Bohm, P Faris, G Hazlewood , J Miller T Noseworthy, G Tomlinson, C Weeks, J Werle	\$94,350.33	\$283,051	Apr-19	Mar-22
University of Calgary and the University of Aberdeen (Scotland)	Bringing the Patient Voice into Decision Making in Health	Marshall DA		\$19,800	\$19,800	Jun-21	May-22
CIHR	Improving Access to Medicines in Canada and Abroad	Law M	Collaborators: M Dawes, L Nasmith, S Singh, B Hobson, K Shojania , J Kur	\$89,214	\$624,498	Jul-16	Jun-23

BC SUPPORT UNIT/Michael Smith Foundation for Health Research 2020 Pathway to Patient-Orientated Research (P2P) Award	Feasibility and Acceptability of the Stop OsteoArthritis (SOAR) Program	Whittaker J	Silvester-Lee T (Patient Co-Lead), Xie H, Hoens A, Hunt M , Roos E, Mosewich A, Miciak M, Pajkic A (Patient partner, Alberta)	\$20,000	\$20,000	Apr-20	Mar-21
Natural Sciences & Engineering Research Council (NSERC)	Statistical Methods for bias controlling in the analysis of rich data	Xie, H		\$15,000	\$75,000	Apr-18	Mar-23

Annual Total 2020-2021 \$12,184,168

SCIENTIST FUNDING - Salary Grants					
Peer Review					
Funding Agency	Title	Faculty	Start/End Date	Annual Amount	Total Awarded
The Arthritis Society	Stars Career award - A Better Match: Transforming rheumatoid arthritis care through tailored follow-up strategies based on disease activity and patient complexity, a pragmatic randomized controlled trial	Barber C	Apr 20 - Mar 22	\$187,500	\$375,000
CIHR	Canada Research Chair in Rheumatoid Arthritis and Autoimmune Diseases (Tier 2)	Barnabe C	Oct 19 - Sep 24	\$100,000	\$500,000
Lupus Foundation of America	Gary S. Gilkeson Career Development Award (\$140,000 USD)	Choi M	Jul 19 - Jun 21	\$111,250	\$222,500

CIHR	Canada Research Chair in Medication Adherence, Utilization, and Outcomes (Scientist)	De Vera M	Apr 17 - Mar 22	\$100,000	\$500,000
CIHR	Canada Research Chair in Systematic Autoimmune Rheumatic Diseases (Tier I) - Renewal	P Fortin	Jul 12 - Mar 26	\$200,000	\$1,950,000
MSFHR	Scholar Award - Incentivizing the delivery of sustainable care of chronic diseases in Canada: case studies in musculoskeletal disease	Harrison M	Jul 17 - Jun 22	\$90,000	\$450,000
CIHR	New Investigator Salary Award - Bridging the gap between research evidence and patient-centered treatment approaches for chronic immune-mediated diseases	Hazlewood G	Jul 16 - Jun 21	\$60,000	\$300,000
Canada Research Chair Program	Canada Research Chair in Patient-Oriented Knowledge Translation	Li L	Apr-19 - Mar 24	\$100,000	\$500,000
The Arthritis Society	Stars Career award - Overcoming obstacles to prevent osteoarthritis after a sport-related injury	Whittaker J	Apr 20 - Mar 22	\$187,500	\$375,000
MSFHR	MSFHR Salary Award	Whittaker J	Jul 20 - Jun 25	\$90,000	\$450,000
Annual Total 2020-2021				\$1,226,250	

Endowed Chairs

UBC	Mary Pack Chair	Lacaille D	Sep-11 -		
UofC	Arthur J.E. Child Chair in Rheumatology Outcomes Research	Marshall D	Jul-12 -		
UBC	Harold Robinson-Arthritis Society Chair in Rehabilitation Sciences	Li L	Jul-16 -		

SFU	Maureen and Milan Illich Chair in Statistics and Information Sciences for Arthritis and Musculoskeletal Disease	Xie H	Sep-15 -		
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TRAINEE AWARDS							
Funding Agency	Award Type and/or Research Title	Trainee	Supervisor	Start/End Date		Annual Amount	Total Awarded
CIHR	Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award - Real world gait analysis and modification of people with knee osteoarthritis using a novel instrumented shoe	Charlton J	Hunt M	May 18 - Apr 21		35000	105000
Lupus Foundation of	Gary S. Gilkeson Career Development Award (\$140,000)	Choi M	Clarke A	Jul 19 - Jun 21		\$111,250	\$222,500
Alberta Innovates	Graduate Studentship - Cost-effectiveness of early initiation of personalized biologic treatment in children with juvenile idiopathic arthritis	Grazziotin-Lago L	Marshall D	Jun 20 - May 23		\$10,000	\$30,000
CIHR	Health System Impact Fellowship - Patient/Public Engagement Measurement and Evaluation Project (PEMEP) within the British Columbia Ministry of Health's Patients as Partners Initiative	Hamilton C	L Li	Sep 18 - Aug 20		\$77,500	\$155,000
MAX Scholarship Fund	Muslim Awards for Excellence (MAX) Scholarship for Science and Engineering	Hassen N	Lacaille D	Aug-21		\$3,000	\$3,000

CIHR	Frederick Banting and Charles Best Canada Graduate Scholarship-Master's Award, Effects of exercise interventions on pain and disease activity in adults with rheumatoid arthritis	Hassen N	Lacaille D	May 20 - Apr 21	\$17,500	\$17,500
UBC	Andrew Nord Fellowship in Rheumatology scholarship	Howren A	De Vera M	Jul 21 - Jun 22	\$22,000	\$22,000
CIHR	Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award - Mapping onset and treatment of mental health conditions in patients with inflammatory arthritis: Population-based studies (MATTERS)	Howren A	De Vera M	Sep 18 - Aug 21	\$35,000	\$105,000
UBC	John H McNeil Scholarship	Howren A	De Vera M	Mar-21	\$2,200	\$2,200
The Arthritis Society	PhD Salary Award - Health-related quality of life following a youth sport-related knee injury: Implications for preventing post-traumatic osteoarthritis and promoting lifelong well-being'	Le C	Whittaker J	Jun 20 - May 22	\$21,000	\$42,000
CIHR	Frederick Banting and Charles Best Canada Graduate Scholarships Doctoral Award - The risk of multiple sclerosis among users of tumor necrosis factor inhibitors: A Canadian population-based study	Li L	Avina-Zubieta JA	May 20 - Apr 23	\$35,000	\$105,000
The Arthritis Society	The risk of multiple sclerosis among users of tumor necrosis factor alpha: A Canadian population-based study	Li L	Avina-Zubieta JA	Sep 20 - Aug 23	\$21,000	\$63,000
UBC	Graduate Student Award	Li L	Avina-Zubieta JA	Jun 21 - May 22	\$15,000	\$15,000

UBC	Four year Doctoral Fellowship	Li L	Avina-Zubieta JA	Mar 21 - Feb 22	\$18,200	\$72,800
CIHR	Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award - Evaluation of an Alternative Model of Care for Stable Rheumatoid Arthritis Patients: Collaborative Nurse-Led Shared Care Model	Lopatina E	Marshall D	Sep 19 - Aug 22	\$35,000	\$105,000
UBC	Jane Hudson Alumni Scholarship in Physical Therapy	Losciale, J	Whittaker J	Mar 21 - Feb 22	\$6,150	\$6,150
MSFHR	Research Trainee Award - Improving resistance training in people with rheumatoid arthritis: A foundational behaviour change	Ma Jasmin	Li L	Sep 18 - Aug 22	\$41,500	\$124,500
The Arthritis Society	Improving strength training in people with rheumatoid arthritis: A foundational behaviour change science approach	Ma Jasmin	Li L	Jun 20 - May 23	\$40,000	\$12,000
CIHR	Postdoctoral Fellowship - Improving strength training in people with rheumatoid arthritis: A foundational behaviour change science approach	Ma Jasmin	Li L	Sep 20 - Aug 23	\$50,500	\$151,500
CIHR	Frederick Banting and Charles Best Canada Graduate Scholarships - Public versus Private Drug Insurance and Degree of Severity of Psoriasis in Patients with Prescribed	Mainville L	P Fortin	May 20 - Apr 21	\$17,500	\$17,500
Universite Laval	Professor's Support Fund for Academic Activities, Department of Medicine	Mainville L	P Fortin	Sep-20	\$8,000	\$8,000
Universite Laval	Clinical Research Scholarship from the Sustainable Health Scholarship Fund	Mainville L	P Fortin	Sep-20	\$2,000	\$2,000

The Arthritis Society	PhD Salary Award - Informing public funding decisions for an exercise and education program for osteoarthritis	Mazzei D	Marshall D	Jun 20 - May 23	\$21,000	\$63,000
U of Calgary	Cumming School of Medicine Graduate Scholarship	Mazzei D	Marshall D	Jun 19 - May 23	\$30,000	\$12,000
CIHR	CIHR Postdoctoral Award - Prospective, population-based studies of antimalarials and their impact on vision loss, quality-of-life, disease activity, and mortality in patients with rheumatic disease	McCormick N	Avina-Zubieta JA	Sep 18 - Aug 21	\$50,000	\$150,000
CIHR	Doctoral Foreign Study Award - Bidirectional association of gout and diabetes and the development of a dietary urate index	Rai S	Choi H	May 18 - Apr 21	\$35,000	\$105,000
UBC	Graduate Student Initiative Award	Ramachandran S	Li LC	Aug 21 - Jul 22	\$4,000	\$4,000
UBC	4-Year Fellowship Award - The role of psychological, social, and contextual factors in recovery and return to sport after a sport-related knee injury	Truong L	Whittaker J	Sep 20 - Aug 24	\$72,000	\$288,000
CIHR	Fellowship Award - Reducing the risk of osteoarthritis after a sport knee injury: Proof-of Concept of the SOAR (Stop OsteoARthritis) program”	Truong L	Whittaker J	Jun 21 - May 24	\$55,000	\$165,000
The Arthritis Society	Vancouver Branch Scholarship	Truong L	Whittaker J	Dec 20 - Jan 21	\$1,650	\$1,650
CIHR	CIHR Postdoctoral Award - Safety and Effectiveness of Anti-diabetic Drugs in Pregestational Diabetes	Tsao N	M De Vera	Sep 18 - Aug 21	\$60,000	\$180,000
Annual Total 2020-2021					\$952,950	

Appendix II – Publications & Abstracts, July 1, 2020 – June 30, 2021

Names in bold indicate Arthritis Research Canada/Arthrite-recherche Canada Scientists, trainees and Patient Advisory Board Members

PUBLICATIONS

1. Abdul Aziz YH, Heydon SJ, Duffull SB, **Marra CA**. What free services do pharmacists offer? Investigating the provision of unfunded pharmacy services in community pharmacies. *Res Social Adm Pharm*. 2021 Mar;17(3):588-594. doi: 10.1016/j.sapharm.2020.05.007. Epub 2020 May 11.
2. Abrahami D, **Hudson M**, Suissa S. Statins and lower mortality in rheumatic diseases: An effect of immortal time bias? *Semin Arthritis Rheum*. 2021 Feb;51(1):211-218. doi: 10.1016/j.semarthrit.2020.11.010. Epub 2020 Dec 19.
3. Aguiar M, **Harrison M**, Munro S, Burch T, Kaal KJ, **Hudson M**, **Bansback N**, Laba TL. Designing discrete choice experiments using a patient-oriented approach. *Patient*. 2021 Jul;14(4):389-397. doi: 10.1007/s40271-020-00431-w.
4. Al Hamarneh YN, **Marra C**, Gniadecki R, Keeling S, Morgan A, Tsuyuki R. RxIALTA: evaluating the effect of a pharmacist-led intervention on CV risk in patients with chronic inflammatory diseases in a community pharmacy setting: a prospective pre-post intervention study. *BMJ Open*. 2021 Mar 24;11(3):e043612. doi: 10.1136/bmjopen-2020-043612.
5. Almeida-Brasil CC, Pineau CA, Vinet E, Hanly JG, Peschken CA, **Clarke AE**, **Fortin PR**, **Abrahamowicz M**, Bernatsky S. Predictors of unsuccessful hydroxychloroquine tapering and discontinuation: Can we personalize decision-making in systemic lupus treatment? *Arthritis Care Res (Hoboken)*. 2020 Dec 26. doi: 10.1002/acr.24548. Online ahead of print.
6. Archambault PM, Guay-Bélanger S, Gélinas V, Giguère A, Ludwig C, Ndiaye MA, Kastner K, Stacey D, **Bansback N**, Groot G, Légaré F. Patient-Oriented Research from the ISDM 2019 Conference: A Legacy Now More Relevant Than Ever. *Patient*. 2020 Dec;13(6):649-652. doi: 10.1007/s40271-020-00463-2. Epub 2020 Oct 16.
7. Aringer M, Brinks R, Dörner T, Daikh D, Mosca M, Ramsey-Goldman R, Smolen JS, Wofsy D, Boumpas DT, Kamen DL, Jayne D, Cervera R, Costedoat-Chalumeau N, Diamond B, Gladman DD, Hahn B, Hiepe F, Jacobsen S, Khanna D, Lerstrøm K, Massarotti E, McCune J, Ruiz-Irastorza G, Sanchez-Guerrero J, Schneider M, Urowitz M, Bertsias G, Hoyer BF, Leuchten N, Schmajuk G, Tani C, Tedeschi SK, Touma Z, Anic B, Assan F, Chan TM, **Clarke AE**, et al. European League Against Rheumatism (EULAR)/American College of Rheumatology (ACR) SLE classification criteria item performance. *Ann Rheum Dis*. 2021 Feb 10;annrheumdis-2020-219373. doi: 10.1136/annrheumdis-2020-219373. Online ahead of print.
8. **Atiquzzaman M**, Karim ME, **Kopec J**, Wong H, **De Vera MA**, **Anis AH**. Using external data to estimate unmeasured confounders: A plasmode simulation study comparing alternative approaches to impute body mass index in a study of the

- relationship between osteoarthritis and cardiovascular disease. *The Journal of Statistical Research*. 2020, Vol. 54, No. 2, pp. 131-145
9. Bahremand T, Etminan M, Roshan-Moniri N, **De Vera MA, Tavakoli H, Sadatsafavi M**. Are COPD prescription patterns aligned with guidelines? Evidence from a Canadian population-based study. *Int J Chron Obstruct Pulmon Dis*. 2021 Mar 25;16:751-759. doi: 10.2147/COPD.S290805. eCollection 2021.
 10. **Barber CEH, Lacaille D**, Faris P, Mosher D, Katz S, Patel J, Zhang S, Yee K, **Barnabe C, Hazlewood G**, Bykerk V, Shiff N, Twilt M, Burt J, **Benseler S**, Homik G, **Marshall DA**. Evaluating quality of care for rheumatoid arthritis for the population of Alberta using system-level performance measures. *J Rheumatol* 2021 Apr;48(4):482-485. doi: 10.3899/jrheum.200420.
 11. **Barber C, Lacaille D**, Hall M, **Bohm V, Li LC, Barnabe C, Hazlewood G, Marshall D**, Rankin J, **Tsui K, English K**, MacMullan P, Homik J, Mosher D, Then K. Priorities for high quality care in rheumatoid arthritis: Results of patient, health professional, and policymaker perspectives. *J Rheumatol*. 2021 Apr;48(4):486-494. doi: 10.3899/jrheum.201044.
 12. **Barber CEH**, Mosher DP , Dowling S, **Bohm V**, Solbak N, MacMullan P, Pan B, **Barnabe CCM, Hazlewood GS**, Then K, **Marshall D**, Rankin J, **Li L, Tsui K, English K**, Homik J, Spencer S, Hall M, **Lacaille D**. Implementation and evaluation of audit and feedback for monitoring treat to target (T2T) strategies in rheumatoid arthritis using performance measures. *Rheumatology and Therapy*, 2020 Dec;7(4):909-925. doi: 10.1007/s40744-020-00237-0.
 13. **Barber CEH**, Then KL, **Bohm V**, Hall M, **Marshall DA**, Rankin JA, **Barnabe C, Hazlewood GS, Li LC**, Mosher D, Homik J, MacMullan P, **Tsui K, English K, Lacaille D**. Development of a patient-centered quality measurement framework for measuring, monitoring, and optimizing rheumatoid arthritis care in Canada. *J Rheumatol*. 2021 Mar;48(3):326-334. doi: 10.3899/jrheum.200688.
 14. **Barber CEH, Lacaille D**, Hall M, **Bohm V, Li LC, Barnabe C, Hazlewood GS, Marshall D**, Rankin J, **Tsui K, English K**, MacMullan P, Homik J, Mosher D, Then KL. Strategies for developing and implementing a rheumatoid arthritis quality framework: a thematic analysis of perspectives from arthritis stakeholders. *BMJ Open*. 11(3):e043759, 2021. DOI: 10.1136/bmjopen-2020-043759.
 15. **Barber CEH**, Spencer N, **Bansback N**, Zimmermann GL, **Li LC**, Richards DP, Proulx L, Mosher DP, **Hazlewood GS**. Development of an implementation strategy for patient decision aids in rheumatoid arthritis through application of the Behavior Change Wheel. *ACR Open Rheumatol*. 2021 May;3(5):312-323. doi: 10.1002/acr2.11250. Epub 2021 Apr 1.
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Appendix II

ABSTRACTS

1. Almeida-Brasil C, Hanly J, Urowitz M, **Clarke A**, Ramsey-Goldman R, Gordon C, Petri M, Ginzler EM, Wallace D, Bae SC, Romero-Díaz J, Dooley MA, Peschken C, Sanchez-Guerrero FJ, Bernatsky S, Isenberg D, Rahman A, Manzi S, Jacobsen S, Lim SS, Van Vollenhoven R, Nived O, Jönsen A, Kamen D, Aranow C, Irastorza GR, Sanchez-Guerrero J, Gladman D, **Fortin P**, Alarcón G, Merrill J, Kalunian K, Ramos-Casals M, Steinsson K, Zoma A, Askanasem A, Khamashta M, Bruce I, Inanc M, Bernatsky S. Retinal toxicity in a multinational inception cohort of systemic lupus patients on hydroxychloroquine. *Arthritis Rheum.* 2020;72(Suppl 10):1720-1722.
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ABSTRACTS NOT PUBLISHED IN A JOURNAL

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6. **Truong LK**, Mosewich AD, Miciak M, Pajkic A, **Le CY**, **Li LC**, **Whittaker JL**. Balance, reframe, overcome: Attitudes, priorities, and perceptions towards physical activity and exercise therapy in youth with sport-related anterior cruciate ligament (ACL) tears. Podium Presentation. Abstract presented at the World Physiotherapy Congress 2021 Online, April 9 – 11, 2021.