



THE ARTHRITIS RESEARCH CANADA
BOARD MEETING – THURSDAY, SEPTEMBER 07, 2017
ANNUAL REPORT OF THE SCIENTIFIC
DIRECTOR

Trainees

Teresa (Tita) Szlachetka started at Arthritis Research Canada in September as a new Masters student in experimental medicine (Supervisor: **Diane Lacaille**). Her project is related to physical activity and cognitive function in rheumatoid arthritis.

Yue Ma is a new Masters student (Supervisor: **Hui Xie**). Ms. Ma is an MSc student at the Department of Statistics and Actuarial Sciences at Simon Fraser University. She is working with Dr. Xie on developing statistical methods for E-health data and is currently supported partially by Dr. Xie's President's Research Start-up Fund.

Clayon Hamilton (Supervisor: **Linda Li**) was awarded a \$124,500 Post-doctoral Fellowship Award from the Michael Smith Foundation for Health Research. The project title is "*Development and validation of the Patient Engagement in Research Scale (PEIRS)*". His post-doctoral work involves a series of projects that aim to develop and validate an outcome measure on meaningful patient engagement in research. **Clayon** was also selected by the Arthritis Health Professions Association (AHPA) for an AHPA/The Arthritis Society Research Grant and received \$5,000 for *the PEIRS Study*. **Linda Li** and **Alison Hoens** are co-investigators, and three Arthritis Patient Advisory Board Members, **Kelly English**, **Annette McKinnon** and **Shanon McQuitty** are collaborators.

Sharan Rai (Supervisors: **Hyon Choi**, **Mary De Vera** & **Antonio Avina**) successfully defended her Master's thesis on August 22nd. Her thesis title was "*Population-based epidemiologic studies of gout in British Columbia, Canada*". Sharan has relocated to Boston where she has been accepted to the Harvard School of Public Health's PhD program with a full tuition scholarship and stipend (\$250K USD). She will do her doctorate on the impact of nutrition on arthritis. She will also continue her work on gout in the Canadian setting and her gout work for PRECISION, as well as coordinating the US "Improving healthcare consumer effectiveness: an **A**nimated, **S**elf-serve, **W**eb-based **R**esearch (ANSWER) tool for people with early rheumatoid arthritis" randomized trial based in Boston.

Sharan is also the winner of the inaugural (\$750) Arthritis Alliance of Canada Master Student Research Award for her project titled "*Population-based epidemiologic studies of gout in British Columbia, Canada*".

Ju Ann Tan (Supervisor: **Antonio Avina**) gave an invited presentation at the BC Lupus Society 27th Annual Lupus Symposium on October 29th. The title of her talk was '*Lupus Research Worldwide*'. **Ju Ann** successfully defended her Master's thesis on August 15, 2017. The title of her thesis is "*All cause and cause specific mortality risks in granulomatosis with polyangiitis*".

Clayon Hamilton and **Graham MacDonald** (Supervisor: **Linda Li**), **Adalberto Loyola Sánchez** (Supervisor: **Cheryl Barnabe**) and **Natalie McCormick** (Supervisor: **Antonio Avina**) were all awarded Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarships supporting their participation in the 2016 American College of Rheumatology Annual Meeting. They all presented abstracts at the meeting in November.

Awards for **Natalie McCormick** (Supervisor: **Antonio Avina**) this year included: a PLOS Early Career Travel Award (\$500 USD); a Douglas and Jean Bailey Scholarship (\$1,707) from the Faculty of Pharmaceutical Sciences at UBC; a Santosh M. Wasan Graduate Student Travel Award in Pharmaceutical Sciences (\$500) from the Faculty of Pharmaceutical Sciences; the 2017 Gurmej Kaur Dhanda Scholarship Award (\$2000); as well as an award for "*Excellence in sex and gender-based analysis*" for the poster she presented as part of the PRECISION team at the Canadian Institutes of Health Research Inflammation in Chronic Disease Networking Workshop, February 1-2, 2017.

Alyssa Howren (Supervisor: **Mary De Vera**) received three faculty recommended awards from the Faculty of Pharmaceutical Sciences. She was awarded the LOTUS Light Charity Society Mu-Shu Lee Memorial Scholarship in Pharmaceutical Sciences (\$1000), a Douglas and Jean Bailey Scholarship (\$1707) and a Santosh M. Wasan Graduate Student Travel Award in Pharmaceutical Sciences (\$500).

Carol Dou, who was a 2016 Arthritis Research Canada summer student (Supervisors: **Linda Li** & **John Esdaile**), was awarded the Canadian Rheumatology Association Award for the Best Abstract by an Undergraduate Student at the Canadian Rheumatology Association meeting in Ottawa in February.

Kun Huang (Supervisor: **Antonio Avina**) was awarded the Best Abstract by a Post-Graduate Resident Award, also at the Canadian Rheumatology Association meeting.

Kiana Yazdani (Supervisor: **Diane Lacaille**) joined Arthritis Research Canada in January as a new Master's student trainee in experimental medicine. Her project is on "*Secular trends in the risk of cardiovascular diseases in rheumatoid arthritis relative to the general population*".

Nicole Tsao (Supervisor: **Mary De Vera**) has been awarded a Canadian Institutes of Health Research Allied Health Professionals Fellowship award of \$100,000 for her project "*Safety of biologics use during pregnancy: A population-based study of women and infants*." **Nicole Tsao** is also the recipient of the inaugural Arthritis Alliance of Canada Doctoral Student Award (\$750).

Flora To-Miles (Supervisor: **Catherine Backman**), was awarded a Byron Fellowship. Byron Fellows attend a one-week residential course with a group of international, interdisciplinary graduate students and mentors to develop their leadership skills and creative and critical thinking.

2017 ARC Summer Students

Cheryl Barnabe supervised four summer students at Arthritis Research Canada Calgary. **Isabelle Vallerand** was awarded a Canadian Rheumatology Association Research Summer Studentship **Aaron Lin** was awarded a Canadian Institutes of Health Research Undergraduate Summer Studentship and **Ryan Lewinson** was awarded a Canadian Institutes of Health Research CAPP Studentship in psoriatic arthritis. **Sujay Nagaraj** was awarded a McCaig Institute R.R. Singleton Summer Studentship. Each received awards of \$5,000.

Chance Park (Supervisor: **Linda Li**) completed a CIHR funded summer studentship (\$6,250) at ARC Richmond. His project is titled *“Feasibility and preliminary effectiveness of a remote physical activity counselling program for people with inflammatory arthritis.”* This is Project 5 of the **Preventing Complications from Inflammatory Skin, joint and bowel conditions** (PRECISION) grant.

FACULTY

SALARY AWARDS & SCIENTIFIC AWARDS

Aslam Anis is the Principal Investigator on a Canadian Institutes of Health Research grant titled *“The pricing of generic drugs and its impact on market structure, competitiveness and security of supply”*. The award totals \$240,975 and the funding period is three years. Co-investigators include Paul Grootendorst, Aidan Hollis, Chris Ingram, Larry Lynd and **Wei Zhang**.

Antonio Avina-Zubieta and **Paul Fortin** are Co-Investigators on a two-year \$120,000 Canadian Rheumatology Association Canadian Initiative for Outcomes in Rheumatology (CIORA) grant titled *“Bringing patients and therapies together sooner: building clinical trial capacity in myositis to facilitate early access to treatments and improved outcomes”*. The Principal Investigator is Marie Hudson.

Claire Barber (Principal Investigator) and Co-Investigator **Deborah Marshall** have been awarded a CIORA grant for \$119,846 titled *“Measuring geographic variation in access to care for rheumatoid arthritis patients and related outcomes: a patient-centered approach”*. The study aims to assess geographic variation in use and access to rheumatology care and related outcomes for patients with rheumatoid arthritis using a geospatial framework.

Claire Barber and **Diane Lacaille** are Co-Principal Investigators on a two year \$183,600 Canadian Institutes of Health Research Project grant titled *“Development of a patient-centered balanced scorecard approach to improve quality of care in rheumatoid arthritis patients in Canada.”* **Cheryl Barnabe**, **Glen Hazlewood**, **Linda Li** and **Deborah Marshall** are Co-Investigators and APAB members **Kelly English** and **Karen Tsui** are collaborators on the application.

Cheryl Barnabe is a Co-Investigator on a \$30,000 one-year McCaig Institute for Bone and Joint Health Catalyst Award for a project titled *“Inflammation and bone damage in rheumatoid arthritis”*.

Cheryl Barnabe is the Principal Investigator on a Canadian Institutes of Health Research Indigenous Mentorship Network Grant of \$1 million for a project titled *“Alberta Indigenous Mentorship in Health Innovation Network (AIM-HI Network)”*. Co-Principal Investigators include Bonnie Healy, Esther Tailfeathers and Lynden Crowshoe. Co-Investigators include Roy Weasel Fat, Janelle Baker, Betty Bastien, Sherri Chisan and **Adalberto Loyola-Sanchez**.

Hyon Choi has been awarded a two year Innovative Research Award (\$400,000 USD) from the Rheumatology Research Foundation for his project *“Effect of the dietary approaches to stop hypertension (DASH) diet on serum uric acid in gout patients”*. The Innovative Research Award allows independent investigators to explore new ideas that improve understanding of all rheumatic diseases. Their breakthroughs are the first step in discovering new treatments, cures, and prevention for rheumatic diseases.

Ann Clarke is Principal Investigator on a \$10,000 grant from the Calgary clinical Research Fund titled *“Non-pharmacological interventions for enhancing the working life of people with systemic lupus erythematosus: a knowledge synthesis project”*.

Mary De Vera is Principal Investigator on a \$74,400 one-year grant from the Canadian Institutes of Health Research titled *“Perinatal use of immunosuppressant therapies and risk of infections in mothers and babies”*. Co-investigators on the grant include Dr. DE Vera’s trainee **Nicole Tsao** and Larry Lynd from Pharmaceutical Sciences as well as Obstetrician, Gillian Hanley.

Mark Harrison is the recipient of a \$450,000 Michael Smith Foundation for Health Research Scholar Award. His project is *“Incentivizing the delivery of sustainable care of chronic diseases in Canada: case studies in musculoskeletal disease”*.

Glen Hazlewood has been awarded an Arthritis Society New Investigator Salary Award (\$180,000 over three years) to continue his work on patient preferences and treatment recommendations. The grant is titled *“Impacts of integrating the patients’s voice into the process of treatment selection for rheumatoid arthritis”*. He will bridge the gap between the research evidence generated about the best drug treatments for rheumatoid arthritis and what matters to patients.

Glen Hazlewood is also the Principal Investigator on a CIORA grant. He was awarded \$46,970 for a grant titled *"Incorporating patients' preferences into Canadian Rheumatology Association treatment recommendations for rheumatoid arthritis"*.

In addition, **Glen Hazlewood** has received a Canadian Institutes of Health Research New Investigator Award (\$60,000 per year for 5 years). The project title is *"Bridging the gap between research evidence and patient-centered treatment approaches for chronic immune-mediated diseases"*. Co-investigators on the project include **Nick Bansback**, **Cheryl Barnabe**, Vivian Bykerk, Robert Deardon, Sindhu Johnson, **Linda Li**, and **Deborah Marshall**.

Glen Hazlewood is the Principal Investigator on a one year \$99,724 Canadian Institutes of Health Research SPOR Innovative Clinical Trials Catalyst Grant for his project titled *"Establishing the foundation for a patient-centered pragmatic registry-randomized trial of treatment tapering in rheumatoid arthritis"*. His proposal was ranked number one in the competition. **Deborah Marshall** is a Co-PI and **Nick Bansback**, **Claire Barber**, **Cheryl Barnabe** and **Adalberto Loyola-Sanchez** are Co-Investigators.

Glen Hazlewood is also a Co-Investigator on another Canadian Institutes of Health Research grant titled *"Innovating healthcare delivery for sustainable management of the inflammatory bowel diseases"*. The Principal Investigator is Gilaad Kaplan and Co-investigators include Aida Fernandes, Blair O'Neill, Eric Benchimol and Fiona Clement.

Glen Hazlewood and **Deborah Marshall** both received awards from The O'Brien Institute in June. **Glen Hazlewood** was awarded the O'Brien Institute Emerging Research Leader Award (\$2,000), presented to an individual who has, at an early career stage (< 5 years), made outstanding contributions to research. **Deborah Marshall** was awarded the O'Brien Institute Research Excellence Award (\$2,000), presented to an individual who has made outstanding contributions to research.

Michael Hunt and Jean-Francois Esculier have received two awards for their project *"The immediate effects of running on tibiofemoral cartilage integrity in people with and without knee osteoarthritis"*. The first, a Canadian Academy of Sports and Exercise Medicine New Investigator Grant of \$10,000 is to assist new investigators in developing their research in Sport Medicine. The second is a \$4,000 Research Award from the Physiotherapy Foundation of Canada. Co-Investigators are David Wilson, Alex Rauscher and Jack Taunton.

Diane Lacaille received two CIORA grants. Along with Co-principal Investigator **Allyson Jones** (Co-investigators **Hui Xie**, Pierre Guy) she was awarded \$54,000 for the application *"Hip fracture in patients with rheumatoid arthritis: incidence, complications and health services used"*. 37% of people who have a hip fracture are dead within a year and only 16% ever regain the mobility they had had prior to the fracture. Hip fractures are believed to be more common in rheumatoid arthritis but the evidence is imperfect.

Diane Lacaille's second CIORA grant of \$116,900 over two years is titled "*Understanding the barriers to self-management support for underserved populations living with arthritis and co-morbidities and developing patient-derived tools for healthcare policy and practice*". The team includes Co-investigators S Koehn, GP Flores, N Clark; Collaborators: **C Koehn**, M Fong, A Louie. The study will bring together individuals living with arthritis and co-morbidities from vulnerable populations and underserved areas to provide their perspective on the barriers they face in using self-managed support programs.

Diane Lacaille is also a Co-investigator along with **Paul Fortin** on a Canadian Institutes of Health Research Project Scheme Grant (Principal Investigator: Michal Abrahamowicz) titled "*New statistical methods for cohort studies of adverse effects of medications*".

Linda Li is a Co-Principal Investigator on a one year \$25,000 Canadian Institutes of Health Research SPOR Patient Engagement grant titled "*Patient engagement with designing total knee arthroplasty intervention strategies: continuing a patient-oriented research agenda in total knee arthroplasty*". The other Co PI's are Laurie Goldsmith, Heather Divine, Patrick McCallister and Stirling Bryan. Former APAB member **Marilyn Muldoon** is a Co-Investigator.

Linda Li is also a Co-Investigator on a three-year \$477,000 CIHR grant titled "*Transforming the practice of KT: embedding gender*". The principal Investigators are Susan Straus and Julia Moore.

Linda Li has received an Arthritis Society grant for her project "*Empowering active self-management of arthritis: Raising the bar with OPERAS (an On-demand Program to Empower Active Self-management)*". Co-Principal Investigators include **Diane Lacaille**, Teresa Liu-Ambrose, **Catherine Backman**, Chris Shaw, **John Esdaile**, Paul Adam and **Lynne Feehan**. Collaborators include **Cheryl Koehn**, **Alison Hoens**, and Charlie Goldsmith.

Deborah Marshall and **Claire Barber** (Principal Investigators, along with co-applicants S Bertazon, A Patel, D Mosher, J Homik, S Katz, M Nasr) received \$118,000 over two years, for their CIORA grant titled "*Measuring geographic variation in access to care for rheumatoid arthritis patients and related outcomes: a patient-centered approach*". Using Alberta Health data they will assess geographic variation in use of and access to rheumatology health services and related outcomes for patients with rheumatoid arthritis.

Deborah Marshall was awarded an Alberta Innovates – Alberta Precision Health Initiative Development Grant of \$316,000 over 18 months. The project title is "*Alberta precision health initiative for arthritis and complex immune diseases*". Co-investigators include Diane Mosher, Susanne Benseler, **Claire Barber** and others.

Awards and Honours

Catherine Backman has received a University of Southampton Diamond Jubilee International Visiting Fellowship, specifically to collaborate on arthritis-related research. This is a 3-year commitment to foster collaborative research and education, and goals include developing relationships between Arthritis Research UK and Arthritis Research Canada scientists and trainees.

Linda Li was promoted to Full Professor with Tenure at UBC effective July 1, 2016. Dr. Li is the Canadian authority on patient-oriented knowledge translation for arthritis, as well as a well-recognized authority internationally and undoubtedly the BC authority for knowledge translation across all diseases.

Linda Li was awarded the inaugural Arthritis Alliance of Canada Knowledge Translation Research Award (\$750).

Antonio Avina-Zubieta was promoted to Associate Professor of Medicine at UBC effective July 1, 2016. Research is the overwhelming determinant for someone in the tenure track at a research intensive university like UBC. Dr. Avina has been highly successful in all aspects of research from obtaining grants, to publications, and mentoring research trainees. Antonio's Lupus Scholar award from the BC Lupus Society was renewed for another year (\$50,000), and on January 30, 2017 Antonio became a Fellow of the Royal College of Physicians and Surgeons of Canada.

Antonio Avina-Zubieta became a Senior Research Scientist at Arthritis Research Canada effective April 25, 2017.

Cheryl Barnabe became a Senior Research Scientist at Arthritis Research Canada effective April 25, 2017.

Cheryl Barnabe received the Jeff Shiroky Award for Excellence in Rheumatoid Arthritis Research from the Laurentian Conference of Rheumatology in May. In addition, **Cheryl Barnabe** was awarded the University of Calgary O'Brien Institute Emerging Research Leader Award. It was said of her that she "is the foremost Canadian scientist evaluating clinical, epidemiological and health services aspects of arthritis care for Indigenous individuals in Canada and is illuminating the way to deal with the major gaps in care that exist".

Alison Hoens, Nick Bansback, Linda Li and **John Esdaile** were co-presenters at a BC Ministry of Health Research Rounds event on Tuesday May 16th. The presentation focused on Patient Centered Care in Arthritis from both the scientist's view as well as from the patient's view.

Both **Cheryl Barnabe** and **John Esdaile** were recognized by the Arthritis Care and Research Journal as “Outstanding (top 5%) Reviewers for Arthritis Care & Research”. This recognition is for reviews rated in the top 5% of all reviewers in 2016 with respect to the number of reviews, the quality of reviews and their timeliness.

Claire Barber was awarded the Best Abstract on Adult Research by Young Faculty Award at the Canadian Rheumatology Association meeting in Ottawa in February 2017 for her podium presentation on the development of a National Rheumatoid Arthritis Core Clinical Dataset in Canada to support high quality care for rheumatoid arthritis patients.

Michael Hunt is the recipient of a 2016 University of British Columbia Faculty Research Award, The Killam Research Fellowship, a highly prestigious award.

Jacek Kopec was appointed a member of the Scientific Council of the Global Burden of Disease Study of the Institute for Health Metrics and Evaluation at the University of Washington.

Kam Shojania was appointed as the Medical Director of the Mary Pack Arthritis Program, BC’s provincial arthritis program. Dr. Shojania is initiating a bold strategic plan to revitalize the Mary Pack Program. In July Dr. Shojania was awarded the University of British Columbia Fay R. Dirks award for Excellence in Teaching.

ARTHRITIS PATIENT ADVISORY BOARD

ROAR 2016, Saturday October 1, 2016

The event was held at the Ismaili Centre in Burnaby. The presenters included:

- **Diane Lacaille** - Employment and arthritis - the Making it Work study;
- **Hyon Choi** with trainee **Sharan Rai** – Managing gout;
- **Linda Li** - Working with your health professional to use your fitness tracker;
- **Jenny Leese** and **Graham MacDonald** – The joys and challenges of activity trackers;
- **Catherine Backman** – Balancing life activities in the presence of arthritis;
- **Claire Barber** – Patient’s guide to managing cardiovascular risk in rheumatoid arthritis.

There were 150 in person participants. Online registrants came from across the lower mainland and all ten provinces as well as the United States, the United Kingdom, Italy and Africa. According to the feedback survey results 87% said they would attend the event again and 90% said they would recommend it to others.

Conferences and publications & awards

Kelly English and **Katie LeBlanc** attended the Canadian Rheumatology Annual meeting as representatives of APAB. They both were interviewers for the Arthritis Broadcast Network and a number of those interviews can be viewed at:
https://www.youtube.com/playlist?list=PL_45pC-Sq6mEpBl2k3dmL4TO57mWugXW

Alison Hoens and **Annette McKinnon** attended the Arthritis Alliance of Canada Conference on October 27-28, 2016.

APAB members were co-authors on the following publications & abstracts (see Appendix II) **Publications** #48, #88, #153; **Abstracts** #47 & #70.

Sheila Kerr Is the recipient of the inaugural Arthritis Alliance of Canada Active Patient Engagement in Research Award (\$750).

Presentations

Kelly English and **Sheila Kerr** presented on “Patients' experiences of engaging in health research” at the March 31st Knowledge Translation (KT) Connects Webinar coproduced by Arthritis Research Canada and the Michael Smith Foundation for Health Research.

The 3rd bi-annual APAB 101 session was held on Tuesday February 14th with the main presenters being **Sheila Kerr** and **Lianne Gulka** with **Clayton Hamilton** representing the researcher's perspective. The session included Arthritis Research Canada trainees.

Kelly English and **Alex Klemm** presented to the UBC First year Pharmacy students on “Experiences being a rheumatoid arthritis patient: with the pharmacist during a crisis, and for routine maintenance” (Kelly) and “Living with a chronic illness, life experiences with the disease and medication experience's” (Alex).

APAB Personnel Changes

Gerry Sheanh, **Alison Brennan**, and Co-Chair **Lianne Gulka** all retired from APAB this year. **Karen Tsui** has stepped down from being a full APAB member but will continue her involvement in ROAR and some special projects. New members this year include **Jon Collins** and **Marcelle Kors**. Jon has a background in geology and a keen interest in arthritis research. His son David is a practicing rheumatologist in Vancouver. Marcelle has ankylosing spondylitis and brings strong administrative, communications and project managing skills.

Co-Chair **Alison Hoens** has temporarily stepped down from APAB. For the next two years she has joined the BC SPOR SUPPORT Unit in the Knowledge Translation Methods Cluster led by **Linda Li** and will be working at the Milan Ilich Arthritis Research Centre two days a week.

Kelly English stepped into the vacant Co-Chair position to replace Alison during her time away.

PATIENTS IMPLIQUÉS DANS LA RECHERCHE SUR L'ARTHRITE (PIRA) - Laval

The Laval patient group (Comité Aviseur des Patients) recently underwent a rebranding to change their name to Patients Impliqués dans la Recherche sur l'Arthrite (PIRA). Members felt that the word 'impliqués' (involved) "better reflects the will of the members of the committee."

NEW STAFF AND STAFF CHANGES

Trasi Jang worked with the Fund Development team as a Gift Processor and Raiser's Edge expert from fall 2016 to July 2017.

Juliane Chien joined ARC as a Research Assistant with **Linda Li**. She earned her undergraduate degree in Kinesiology from UBC. Juliane works closely with **Navi Grewal** and **Morgan Barber** on the MONITOR, OPAM-IA, and "*Supporting Physical activity & Reducing sedentary behaviour in Arthritis (SuPRA)*" studies using physical activity trackers to measure sedentary and active lifestyles among the arthritis population.

Tara Azimi is a new Research Assistant for **Clayton Hamilton**, assisting with his post doctoral project "*Patient Engagement in Research Scale (PIERS)*".

Wiebke Bartels assisted **Diane Lacaille's** Making It Work team for several months this spring as a science co-op student from UBC.

Kathy Tran completed a health science co-op studentship with the Making it Work team. She has returned to work with the MIW team on a part-time basis.

Hamid Tavakoli has joined Arthritis Research Canada as a statistician with Antonio Avina's team. He received his medical doctorate from Tehran University of Medical Science in 2002 and was part of a team which established one of the first private institutes in health research in Iran. In 2012, he graduated from McMaster University (MSc in Health Informatics). He has previously worked at Fraser Health and at UBC as a Data Scientist working on evaluating provincial administrative health data and other "big data".

Shireen Divecha is the new Administrative Assistant working with **Linda Li** and **Antonio Avina**. She will play an important role in facilitating the day-to-day function of the team. Previously Shireen was working with PricewaterhouseCoopers LLP (PwC).

Halima Elmi joined ARC in July as a new Research Coordinator for **Linda Li**. She received her MPH at Simon Fraser University. Halima has previously worked at UBC on research aimed at improving education for patients with osteoarthritis of the hip. She looks forward to working on both the OPAM-IA and SuPRA studies.

Lynn Nowoselski left ARC in May to move back to her home town of Toronto. She has accepted a position as a Research Ethics Analyst at Sick Kids Hospital.

Also relocated to the east coast is **Brendan van As** from team **Lacaille**. Brendan is fulfilling his dream to live in Toronto.

Brett Trainor, Development Assistant in the Fund Development Department left ARC in June to pursue an MBA at SFU starting in September.

Kevin Allen Marketing and Communications Co-ordinator left ARC in July.

Morgan Barber, who worked with **Jolanda Cibere** and was Co-ordinating the IMPAKT-Hip project left in August to attend Law School at the University of Alberta.

Navi Grewal from **Linda Li's** research team departed in August to return to school to complete an MBA.

Astrid Knight joined ARC in May as the new Research Co-ordinator for **Diane Lacaille**. She received her MSc in Anthropology from the University of Oxford in 2010, and was awarded a Clarendon Scholarship for her graduate research into knowledge sharing and Inuit material culture. Bringing significant skills in community-engagement and collaborative research, Astrid has previously worked at UBC and the University of Oxford.

Rebecca Delarue-Riffel spent eight weeks at ARC as the Marketing & Communications summer student and is continuing after her contract as a part time employee in the Fund Development department.

Johnathan Tam is the new Research Assistant working with **Linda Li**. He completed his BSc at the University of British Columbia, majoring in biology. He will play an important role in assisting with both the OPAM-IA and SuPRA studies.

Mira Galperin joined ARC in August as the new Marketing and Communications Coordinator. She received a BA in English from the University of British Columbia and an MA in Professional Communications from Royal Roads University. Mira brings a strong skill set that will help build awareness and recognition for Arthritis Research Canada.

Signed:



John M. Esdaile, MD, MPH, FRCPC, MAHS
Scientific Director, Arthritis Research Canada

Appendix I: ACTIVE GRANT FUNDING UP TO JUNE 30, 2017

Appendix II: PUBLICATIONS & ABSTRACTS FROM JULY 1, 2016 TO JUNE 30, 2017

Appendix I

FUNDING FROM JULY 1, 2016 TO JUNE 30, 2017

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

SCIENTIST FUNDING - Operating Grants

Funding Agency	Title	PI(s)	Co-I(s)	Annual Amount	Total Awarded	Start Date	End Date
Spondyloarthritis Research Consortium of Canada	Restrictions on access to anti-TNF agents among spondyloarthritis patients: which international criteria are most cost-effective?	Anis A	N Bansback, S Harvard, B Fautrel	\$25,000	\$25,000	Sep-15	Aug-16
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	The pricing of generic drugs and its impact on market structure, competitiveness and security of supply	Anis A	P Grootendorst, A Hollis, C Ingram, L Lynd, W Zhang	\$80,325	\$240,975	Apr-17	Mar-20
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, PArchambault, N Bansback, MD Beaulieu, J Bender, J Bettinger, C Chambers, D Chan, H Colquhoun, S Desroches, et al	\$8,510.40	\$544,538	Jul-16	Jun-21

CIORA	Testing of system-level performance measures for inflammatory arthritis	Barber C	D Lacaille, C Barnabe, D Marshall, S Bensler, G Hazlewood, D Mosher, V Bykerk, J Burt, C Thorne, V Ahluwalia, L Denning, N Shiff, S Katz, J Homik	\$55,000	\$110,000	Jan15	Dec 17
CIHR	Development of a patient-centered balanced scorecard approach to improve quality of care in rheumatoid arthritis patients in Canada	Barber C, Lacaille D	C Barnabe, G Hazlewood, J Homik, L Li, P MacMullan, DA Marshall, D Mosher, J Rankin, K Then, K English, K Tsui	\$91,800	\$183,600	Apr 17	Mar 19
CIHR	Arthritis care for indigenous populations	Barnabe C	D Marshall, S Bernatsky, D Lacaille, L Lis, W Maksymowych, V Bykerk, G Hazlewood, J Jull, L Crowshoe et al	\$115,000	\$575,000	Jul-15	Jun-20
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	Planning for the collaborative implementation of a peer-support shared decision making strategy by and with Aboriginal populations: building foundations for a program of research in health systems that treat chronic disease	Jull J	C Barnabe	\$25,000	\$25,000	Oct-15	Sep-16
McCaig Institute for Bone and Joint Health	Inflammation and bone damage in rheumatoid arthritis	Manske S	C Barnabe, P Salat	\$30,000	\$30,000	Apr-17	Mar-18

CIHR	Brain dysfunction in chronic inflammatory disease: reciprocal effects of CNS and periphery crosstalk	Swain M	C Barnabe , B Goodyear, S Hirota, G Kaplan, G Macqueen, E Mayer, R Myers, Q Pittman, K Sharkey	\$8,364.20	\$335,646	Jul-14	Jun-19
NIH	Impact of cardiovascular and weight loss diets on uric acid and gout risk	Choi H		448,141	\$1,792,564	Jul-13	Jun-17
Rheumatology Research Foundation Innovative Research Award	Effect of the DASH diet on serum uric acid in gout patients	Choi H		249,750	\$499,500	Jul-17	Jun-19
CIHR	Workshop on early knee osteoarthritis: novel biomarkers, diagnostics, therapeutics and clinical cohorts for early detection and intervention	Kapoor M	F Beier, J Chahal, J Cibere , P Cram, R Gandhi, I Jurisca, R Krawetz, J Pelletier, P Perruccio, J Rockel, S Viswanathan, G Zhai	\$9,916	\$9,916	Oct-16	Sep-17
The Arthritis Society	Open MRI for assessing joint biomechanics – applications for osteoarthritis	Wilson DR	J Cibere, M Hunt	\$120,000	\$360,000	Apr-15	Mar-18
CIHR	Development and validation of a new method for measuring cartilage load using upright open Magnetic Resonance Imaging (MRI)	Wilson D	J Cibere	\$118,500	\$474,000	Jul-16	Jun-20
CIORA	The economic challenges of SLE: measuring and mitigating the impact	Clarke AE	S Elliot, V Farewell, J Hanly, M Urowitz	\$55,900	\$111,800	Oct-15	Sep-17
Systemic Lupus International Collaborating Clinics	Quantifying the risk and economic burden of steroid-related damage in SLE: the SLICC Inception Cohort Study	Clark AE		\$58,000	\$174,000	Jan-14	Dec-17
Calgary Clinical Research Fund: Pre-submission Grant	Non-pharmacological interventions for enhancing the working life of people with Systemic Lupus Erythematosus (SLE) : A knowledge synthesis project	Clark AE		\$10,000	\$10,000	Nov-16	Oct-17
Alliance for Lupus Research	Calgary Site PI & LuGIN Network Clinical Invest. Group	Clarke AE, Barr S		\$80,000	\$160,000	Jun-16	May-17

CIHR	The Lupus prEGnAnCY (LEGACY) Cohort	Vinet E, Buyon J, Clowse M, Laskin C, Salmon J	A Clarke , S Bernatsky, E Chakravarty, P Fortin , P Hanly, C Peschken, M Urowitz	\$100,000	\$100,000	Mar-17	Feb-18
Canadian Initiatives for Outcomes in Rheumatology Care (CIORA)	Collaborative care model supported by eHealth technologies on health outcomes and medication adherence among patients with gout	De Vera M	K Shojanian, C Marra, H Choi, JA Avina-Zubieta , A Kydd, M Baker	\$40,000	\$120,000	Jul-14	Jan-17
CIHR	Perinatal use of immunosuppressant therapies and risk of infections in mothers and babies	De Vera M	G Hanley, L Lynd, N Tsao	\$74,443	\$74,443	Mar-17	Feb-18
CIHR	Evidence to action for Canadian and global mobile health (mHealth) communication to promote patient engagement in care: a rigorous implementation science approach	Lester R	V Cook, M De Vera , J Fitzgerald, N Ford, J Johnston, A Kazi, M Murray, L Mwai, A Patel, M Schechter, S Skinner, P Spittal, M VanDerKop	\$80,593	\$402,966	Jul-15	Jun-20
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-19
CIHR	Dissemination of the Lupus Interactive Navigator - Measuring its uptake and impact on global health and self-care.	Fortin P	D DaCosta, V Haroun	\$100,000	\$200,000	Sep-16	Aug-18
CIHR - Foundation Scheme	Platelets and their microparticles: versatile players of inflammation	Boilard, E	P Fortin	\$286,979	\$1,434,894	Sep-14	Aug-19
CIHR - Operating Grant	Role of novel microparticle subtypes derived by platelets in SLE	Boilard, E	P Fortin	\$151,525	\$757,624	Mar-14	Feb-19
CIHR- Operating Grant	Role of autotaxin bound to platelet-derived microparticles to development of vascular damage in arthritis	Bourgoin S	E Boilard, P Fortin	\$157,781	\$788,904	Mar-15	Feb-20

CIORA	Measuring the impact of an innovative educational intervention in inflammatory arthritis: a natural evolution of the CHU de Québec's multidisciplinary information session	Michou L	P Fortin , J Légaré, Bessette, AL Chetaille, H Witteman	\$39,350	\$78,700	Oct-14	Sep-16
CIHR	Randomized Controlled Trial of an Internet-based Exercise Program to Improve Hand Function in Patients with Scleroderma: A Scleroderma Patient-Centered Intervention Network (SPIN) Study	Mouthon L, Poiraudeau S, Thombs B	M Baron , S Bartlet , I Boutron , P Cuijpers , P Fortin , M Hudson , S Johnson, D Khanna, L Kwakkenbos, et al	\$100,000	\$100,000	Jul-16	Jun-17
CIHR	Preventing adverse tissue reactions in total hip replacement, from mechanisms to new implant designs	Masri B, Wang R	M Cox, C Duncan, D Garbuz , N Greidanus , T Ng, D Wang	\$14,154	\$200,000	Apr-16	Mar-19
CIHR	A population-based analysis of multi-disciplinary rheumatology nursing care for people with complex rheumatic diseases.	Harrison M	K Shojania , M Law, K McGrail, M De Vera , R Sawatzky, C Koehn, J Kur, H Davidson	\$14,184.00	\$271,397	Jul 16	Jun 19
CIHR	Bridging the evidence gap: understanding patient and physician choices for treatment in early rheumatoid arthritis	Hazlewood G	C Barnabe , D Marshall , L Li , N Bansback	\$86,000	\$258,000	Oct-15	Sep-18
CIORA	Incorporating patients' preferences into Canadian Rheumatology Association treatment recommendations for rheumatoid arthritis	Hazlewood G	C Barnabe	\$46,970	\$46,970	Aug-16	Jul-17
CIHR	Establishing the foundation for a patient-centered pragmatic registry-randomized trial of treatment tapering in rheumatoid arthritis	Hazlewood G , D Marshall	N Bansback , C Barber , C Barnabe , A Loyola-Sanchez	\$99,724	\$99,724	May-17	Apr-18
CIHR	Innovating healthcare delivery for sustainable management of the inflammatory bowel diseases	Kaplan G, A Fernandes, B O'Neill	G Hazlewood , E Benchimol, F Clement, S Coward, K McBrien	\$100,000	\$100,000	Apr-17	Mar-18

Natural Sciences and Engineering Research Council of Canada	Neuromuscular mechanisms governing knee joint biomechanics during normal gait	Hunt M		\$29,000	\$145,000	Jul-13	Jun-18
Physiotherapy Foundation of Canada	The immediate effects of running on tibiofemoral cartilage integrity in people with and without knee osteoarthritis	Hunt MA, Esculier JF	D Wilson, A Rauscher, J Taunton	\$4,000	\$4,000	Jul-17	Jun-18
Canadian Academy of Sports and Exercise Medicine	The immediate effects of running on tibiofemoral cartilage integrity in people with and without knee osteoarthritis	Hunt MA, Esculier JF	D Wilson, A Rauscher, J Taunton	\$10,000	\$10,000	Jul-17	Jun-18
CIHR	Canadian MSK Rehab Research Network	Astephen Wilson JL, Birmingham T, Lyddiatt A, Macdermid J, Robinovitch S, Roy JS	M Ashe, D Beaton, L Beaupre, M Begon, L Bouyer, L Carlesso, M Choiniere, J Cote, N Dahan-Oliel, K Deluzio, F Desmeules, C Dionne, CA Emery, F Feldman, MAHunt, DA Marshall et al	\$14,204.67	\$366,667	Sep-16	Aug-19
Covenant Health (Alberta)	Coaching for older adults with AO for community health (COACH Study)	Jones CA	L Beaupre, LC Li , H Hanson, S Kumar	\$88,286	\$176,572	Jul-16	Jun-18
CIHR	Getting Older adults OUTdoors (GO-OUT): A randomized controlled trial of a community-based outdoor walking program	Barclay R, Chilibeck P, Salbach N	D Brooks, T Grant, CA Jones , L Lix, N Mayo, J Ripat, C Van Ineved, S Webber	Apr 17	\$178,101	Apr 17	Mar 18
CIHR	A comparison of strategies to reduce the burden of osteoarthritis: a population-based microsimulation study	Kopec JA	J Esdaile, J Cibere, L Li , H Wong, N Bansback, E Sayre	\$72,313	\$216,939	Mar-15	Feb-18

CIHR	Development and validation of Canadian health literacy measurement tool for chronic disease management.	Fitzgerald M, Kopec JA	I Rootman, SD Aaron, C Bergeron, LP Boulet, J Bourbeau, R Goldstein, S Gupta, NA Khan, D Marciniuk, L Nimmon, I Poureslami, R Sawatzky, R, W Tan	\$160,601	\$803,004	Jul-15	Jun-20
CIHR	Interventions for undiagnosed and early-stage COPD: Informing policy, practice, and research through an Evaluation Platform in COPD (EPIC)	Sadatsafavi M	S Aaron, J Bourbeau, F MacPherson, P Brasher, S Bryan, JM Fitzgerald, J Kopec et al	\$58,694.33	\$176,083	Jul-15	Jun-18
CIHR	Assessing the quality of care for Rheumatoid Arthritis at a population level	Lacaille D	M Abrahamowicz, A Anis, N Bansback, J Esdaile	\$183,000	\$549,000	Oct-13	Sep-16
CIORA	Case managers to improve the management of inflammatory arthritis and associated comorbidities with First Nations Communities: A proof of concept study	Lacaille D	C Barnabe , H Brown, LC Li , L Crowshoe, C Goldsmith	\$60,000	\$120,000	Oct. 15	Sep-16
TAS	Case managers to improve management of arthritis and associated comorbidities with First Nations Communities : a proof of concept study	Lacaille D	H Brown, LC Li, C Barnabe , L FJ Crowshoe, C Goldsmith	\$119,666.67	\$359,000	Jul-15	Jun-17
CIORA	Hip fracture in patients with rheumatoid arthritis: incidence, complications and health services used	Lacaille D, Jones CA	H Xie , P Guy	\$54,872	\$54,872	Aug-16	Jul-17
CIORA	Understanding the barriers to self-management support for underserved populations living with arthritis and comorbidities and developing patient-derived tools for healthcare policy and practice	Lacaille D, Mills S	S Koehn, GP Flores, N Clark, C Koehn , M Fong, A Louie	\$58,450	\$116,900	Aug-16	Jul-18
CIHR	New statistical methods for population-based studies of comparative effectiveness and safety of medications: development, validation and application	Abrahamowicz M	S Bernatsky, J Brophy, D Buckeridge, R Capek, J Delaney, W Dixon, R Ionescu-Iltu, D Lacaille , L	\$190,000	\$950,000	Jul-11	Sep-16

CIHR	Canadian network for advanced interdisciplinary methods for prospective studies of drug safety and effectiveness	Abrahamowicz M	D Lacaille , A Berard, S Bernatsky, C Hohl, L Levesque, A Levy, Y Moride, L Pilote, L Bessette, L Blais, G Boire,	\$250,000	\$1,250,000	Sep-14	Aug-19
CIHR	Implementation of a 'virtual' cardiac rehabilitation program	Lear S, Hawkins M	S Au, B Holmes, LC Li , M Naruki-van Velzen	\$100,000	\$200,000	Oct. 15	Sep-17
BC Knowledge Development Fund	Health Decision Technology (HD-Tech) Lab	Li LC		\$21,258	\$42,516	Jan-14	Dec-16
CIORA	Supporting Patient care with Electronic Resource (SuPER): efficacy of an online decision aid for patients considering biologic therapy for rheumatoid arthritis	Li LC, Lacaille D	N Bansback, C Goldsmith , E Yacyshyn, CA Jones , P Adam, A Hoens , D Sholter, H Choi	\$25,565	\$51,130	Oct-15	Sep-17
CIHR	Knowledge translation to optimize mobility independence in older adults: Improving Cognitive & Joint health Network (ICON)	Li LC , Liu Ambrose, T, Esdale JM , Gromala D	S Straus, F Légaré, C Shaw, R Smith, CA Jones , A Hoens , P Adam	\$199,289.33	\$597,868	Apr-14	Mar-17
VCHRI (Innovation & Translational Research award)	Improving physical activity using an online monitoring tool: a new model of care for knee OA	Li LC , Noonan G	L Feehan, C Goldsmith, A Hoens	\$25,000	\$50,000	Jan-15	Dec-16
The Arthritis Society	Effectiveness of Online Physical Activity Monitoring in Inflammatory Arthritis (OPAM-IA): A new model of care	Li LC, Avina-Zubieta JA, Goldsmith C, Backman C, Townsend A, Feehan L , Shaw C, Gromala D	G Noonan, P Adam, L Callahan	\$87,133.33	\$261,400	Oct-14	May-17

The Arthritis Society	Empowering active self-management of arthritis: Raising the bar with OPERAS (an On-demand Program to Empower Active Self-management)	Li LC	D Lacaille , T Liu-Ambrose, C Backman , C Shaw, J Esdaile , K Miller, R Petrella, L Feenhan , C Koehn , C Goldsmith , P Adam	\$120,000	\$360,000	Jul-16	Jun-19
VCHRI	Buying time: Improving sleep to promote cognitive function in older adults	Liu-Ambrose T	LC Li , C Chan	\$25,000	\$50,000	Jul-16	Jun-18
CIHR	Patient engagement with designing total knee arthroplasty intervention strategies: continuing a patient-oriented research agenda in total knee arthroplasty	Li LC , D Brown, A Garg, Goldsmith L, Bryan S	D Brown, S Hejazi, K Juck, D Langford, M Muldoon , E Cameron, R Sawatzky	\$25,000	\$25,000	Mar-17	Feb-18
CIHR	Listening to voices not often heard: An exploration of research needs of South Asian knee replacement patients	Li LC , Bryan S, Divine HA, Goldsmith L, McAllister P	S Bains, J Chande, R Gandhi, K Juck, D Moorthy, I PoireslamiM Iraj,	\$25,000	\$25,000	Mar-17	Feb-18
CIHR	Transforming the practices of KT: Embedding Gender	Straus S, Moore J	A Chambers, L Giangregorio, A Giguere, I Graham, J Hamid, J Holroyd Leduc, C Kelly, LC Li , J Presseau, P Rochom et al	\$150,000	\$450,000	May-17	Mar-20
CIHR	Candrive prospective older driver study	Marshall S	M Bedard, S Gagnon, I Gelinas, LC Li , B Mazer, A Myers, G Naglie, M Porter, H Tuokko, B Vrkljan	\$462,244	\$1,386,732	Apr-14	Mar-17
The Arthritis Society	Helping adolescents with juvenile arthritis and their parents to make informed and valued-based decisions about pain relief modalities: development of a novel decision support intervention	Toupin-April K	LC Li , J Stinson, P Tugwell, C Duffy, A Huber, P Fortin , I Gaboury, J S Cohen, L Brosseau	\$95,942.67	\$287,828	Apr-15	Mar-18

CIORA	Pharmacist-led cardiovascular disease intervention for inflammatory arthritis patients	Marra C	J Kielly, R Tsujuki, S Kealing	\$119,000	\$119,000	Oct-15	Sep-16
CIHR	Developing a Canadian framework for evaluation and decision-making for expensive drugs for rare diseases through innovation, value, and priority setting	Lynd L	S Bryan, L Clarke, T Clifford, D Coyle, J Friedman, C Marra et al	\$296,000	\$1,480,000	Feb-12	Jan-17
CIHR	The scleroderma patient-centre intervention network	Thombs B	C Marra & 30 others	\$189,982	\$949,910	Jul-12	Jun-17
AIHS/PRIHS Grant	Optimizing centralized intake to improve arthritis care for Albertans	Marshall DA	C Barber , L Phillips, J Homik, C Barnabe et al	\$379,478	\$1,138,435	Jan-14	Jan-17
CIHR	Towards better surgical outcomes through improved decision making about appropriateness for total knee arthroplasty in patients with knee osteoarthritis	Marshall DA , Hawker G	E Bohm, M Dunbar, P Faris, A Jones, T Noseworthy, B Ravi, L Woodhouse	\$208,848	\$1,044,241	Apr-14	Mar-19
CIHR	Building partnerships to improve care of early knee osteoarthritis patients: Co-developing a risk management tool	Marshall DA	B Sharif, J Cibere, J Kopec , S Teare, J Miller, D Campbell-Scherer, P Fearis, L Green, K Mrklas, T Wasylak	\$100,000	\$200,000	Sep-16	Aug-18
CIORA	Measuring geographic variation in access to care for rheumatoid arthritis patients and related outcomes: a patient-centred approach	Marshall DA, Barber CE	S Bertazzon, A Patel, D Mosher, J Homik, S Katz, M Nasr	\$59,000	\$118,000	Aug-16	Jul-18
Alberta Innovates Health Solutions (AIHS)	Planning session for development of a clinical risk calculator for early knee osteoarthritis progression'	Marshall DA	B Sharif, J Kopec, J Cibere , L Green, S Teare, J Miller, N Marlett, D Campbell-Scherer, T Wasylak	\$4,000	\$4,000	Apr-16	Mar-17
Calgary Centre for Clinical Research, University of Calgary	Needs assessment and planning for development of a clinical risk calculator for early knee osteoarthritis progression	Marshall DA	J Cibere, B Sharif , L Green	\$10,000	\$10,000	Mar-16	Feb-17

Alberta Innovates; APhi Development Grant	Alberta Precision Health Initiative for Arthritis and Complex Immune Diseases	Marshall DA	D Muruve, DP Mosher , CE Barber , S Benselar, M Twilt, P Kubes, S Boyd, B Scott, M Fritzler, S Wiebe, P Faris, S Dean, R Tsuyuki, N Scott-Douglas, B Kathol, J Miller, S Teare	\$212,667	\$319,000	Jul-17	Dec-18
CIHR	UCAN CAN-DU: Canada-Netherlands Personalized Medicine Network in Childhood Arthritis and Rheumatic Disease	Benseler S, Swart J, Wulffraat N, Yeung R	C Bombardier, J Cafazzo, N Eijkelkamp, A Goldenberg, J Guzman, M Ijzerman, DA Marshall et al	\$8,553.40	\$1,023,753	Feb-17	Jan-22
Canadian Foundation for Innovation	An integrative approach for translating research to improve musculoskeletal health	Boyd S	DA Marshall , C Aglin, N Duncan, C Frank, M Fritzler, W Herzog et al	\$1,184,750	\$4,739,000	Jan-13	Dec-17
CIHR	Consequences of knee joint injury in youth sport: implications for knee osteoarthritis and other health outcomes	Emery, C	M Brussoni, R Ferber, R Krawetz, J Ronsky, L Woodhouse, P Doyle-Baker, J Jaremko, DA Marshall	\$173,333	\$519,999	Apr-14	Mar-17
CIHR	Alberta program in youth sport and recreational injury prevention	Emery C	DA Marshall et al	\$500,000	\$2,500,000	Apr-13	Mar-18
AIHS, Spine Access Alberta PRIHS Grant	An innovative health service delivery and spine management model	L. Woodhouse	DA Marshall et al	\$398,433.33	\$1,195,300	Jan-14	Jan-17
CIHR	Toward the development of Resources for Gout Education (TARGET)	Rai S	JA Avina-Zubieta, H Choi, M De Vera, L Li, K Shojan	\$10,000	\$10,000	Jul-16	Jul-17
The Arthritis Society	Patient Engagement in Research For the development of EduCaTions videos for Knowledge Translation , PERFECT-KT	Rai S	JA Avina-Zubieta, H Choi, M De Vera, L Li, K Shojan	\$10,000	\$10,000	Apr-16	Mar-17

SCIENTIST FUNDING - Salary Grants

SCIENTIST FUNDING - Salary Grants					
Peer Review					
Funding Agency	Title	Faculty	Start/End Date	Annual Amount	Total Awarded
MSFHR	Career Investigator Award - Reducing the burden and gaps in care for patients with systemic autoimmune rheumatic diseases (ReGaIN SARDs)	Avina A	Jul-14 - Jun-19	\$90,000	\$450,000
CIHR	New Investigator Award - Arthritis care for Indigenous populations	Barnabe C	Jul-14 - Jul-19	\$60,000	\$300,000
CIHR	New Investigator Award - Can patient-centred care improve outcomes and save costs?	Bansback N	Jul-14 - Jul-19	\$60,000	\$300,000
CIHR	Tier II Canada Research Chair in Pharmaceutical Outcomes (renewal)	Marra C	Oct-11 - Oct-16	\$100,000	\$500,000
TAS	Investigator Award	Cibere J	Sep-12 - Aug-16	\$70,000	\$280,000
MSFHR	Career Investigator award - Pharmacoepidemiologic and pharmaceutical outcomes research to improve medication use, adherence, and outcomes in patients with arthritis	De Vera M	Jul-14 - Jun-19	\$90,000	\$450,000
CIHR	Canada Research Chair in Medication Adherence, Utilization, and Outcomes (Scientist)	De Vera M	Apr 17 - Mar 22	\$100,000	\$500,000
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

TAS	New Investigator Salary Award - Impacts of integrating the patients's voice into the process of treatment selection for rheumatoid arthritis	Hazlewood G	Aug 16 - Jul 09	\$60,000	\$180,000
O'Brien Institute University of Calgary	O'Brien Emerging Research Leader Award	Hazlewood G	Jul-17		\$2,000
MSFHR	Career Clinical Scholar	Hunt M	Jul-12 - Jul-20	\$79,375	\$635,000
CIHR	New Investigator Award - Non-invasive treatments to improve disease symptoms and cartilage health for knee osteoarthritis	Hunt M	Jul-14 - Jul-19	\$60,000	\$300,000
MSFHR	Career Investigator Award	Li L	Sep-11 - Aug-19	\$79,375	\$635,000
Canada Research Chair Program	Canada Research Chair in Patient-Oriented Knowledge Translation	Li L	Jan-14 - Dec-19	\$100,000	\$500,000
Government of Canada	Canada Research Chair in Systemic Autoimmune Rheumatic Diseases	Fortin P	Jul-12 - Jun-19	\$200,000	\$1,400,000
Government of Canada	Canada Research Chair in Health Services and Systems Research (renewal)	Marshall D	Mar-13 - Feb-18	\$100,000	\$500,000
UofC	Arthur J.E. Child Chair in Rheumatology Outcomes Research	Marshall D	Jul-12 - Jun-17	\$75,000	\$750,000
University of Calgary	O'Brien Research Excellence Award	Marshall D	Jul-17	\$2,000	\$2,000
Non Peer Review					
BC Lupus Society	Scholar Award	Avina A	Jul-10 - Jun-18	\$50,000	\$350,000
UBC	Mary Pack Chair	Lacaille D	Sep-11 - Aug-16	\$164,759	\$823,799
UBC	Harold Robinson-Arthritis Society Chair in Rehabilitation Sciences	Li L	Jul-11 -	\$94,333	\$283,000
SFU	Maureen and Milan Illich Chair in Statistics and Information Sciences for Arthritis and Musculoskeletal Disease	Xie H	Sep-15 - Aug-20	\$172,000	\$4,000,000

TRAINEE AWARDS							
Funding Agency	Title	Trainee	Supervisor	Annual Amount	Total Awarded	Start Date	End Date
Alberta Innovates Health Solutions/Alberta SPOR Unit: Patient Oriented Research Studentship	Falls and fear of falling in patients with total hip and knee replacements	Chen S	A Jones	\$30,000	\$30,000	Jan-16	Dec-16
Eli Lilly	Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarships	Donaldson M	D Lacaille	\$2,500	\$2,500	Jun-17	Jun-17
CIHR	Postdoctoral Fellowship - The effects of running on knee cartilage measures in people with and without knee osteoarthritis	Esculier JF	M Hunt	\$55,000	\$165,000	Jul-16	Jun-19
MSFHR	Postdoctoral Fellowship Award - Development and validation of the Patient Engagement In Research Scale (PEIRS)	Hamilton C	L Li	\$41,500	\$124,500	Sep-16	Aug-19
Arthritis Health Professions Association (AHPA)/The Arthritis Society Research Grant	The PEIRS Study: Development of a measure of meaningful patient engagement	Hamilton C	L Li	\$5,000	\$5,000	Feb-17	Jan-18
Eli Lilly	Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarships	Hamilton C	L Li	\$850	\$850	Nov-16	Nov-16
CIHR	Banting and Best Canada Graduate Scholarships Master's Award - Patient and provider perspectives of an eHealth-supported collaborative care model for gout: a mixed methods study	Howren A	M De Vera	\$175,000	\$175,000	May-16	Apr-17

CIHR	Using e-health to support the self-management of musculoskeletal diseases: the patient perspective - Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award	Leese J	L Li	\$35,000	\$105,000	Jul-15	Jun-18
Eli Lilly	Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarships	Li G	A Avina-Zubieta	\$2,500	\$2,500	Jun-17	Jun-17
CIHR	Undergraduate: Summer Studentship Award – Institute Community Support . Indigenous community engagement in arthritis studies: building on a systematic review of the literature to propose recommendations for impactful rheumatology research	Lin CY	C Barnabe	\$5,000	\$5,000	May-17	Aug-17
CIHR	Frederick Banting and Charles Best Canada Graduate Scholarships - Doctoral Award - Sustainability in arthritis management programs for Indigenous populations of Canada and Mexico'	Loyola-Sanchez A	C Barnabe	\$50,000	\$50,000	Feb-16	Jan-18
U Calgary - Cummings School of Medicine Post-doctoral scholarship	Sustainability in arthritis management programs for Indigenous populations of Canada and Mexico	Loyola-Sanchez A	C Barnabe	\$70,000	\$140,000	Aug-15	Jul-16
Eli Lilly	Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarships	Loyola-Sanchez A	C Barnabe	\$1,783	\$1,783	Nov-16	Nov-16
Eli Lilly	Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarships	MacDonald G	L Li	\$450	\$450	Nov-16	Nov-16
UBC	UBC Four Year Fellowship for PhD Students	McCormick N	JA Avina, C Marra			Sep-14	Aug-17

CIHR	Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award	McCormick N	JA Avina, C Marra	\$35,000	\$105,000	Sep-14	Aug-17
Faculty of Pharma	Santosh M. Wasan Graduate Student Travel Award	McCormick N	JA Avina, C Marra	\$500	\$500	Nov-16	Nov-16
Scleroderma Asso	Gurmej Kaur Dhanda Scholarship Award	McCormick N	JA Avina, C Marra	\$2,000	\$2,000	Jun-17	Jun-17
PLOS	PLOS Early Career Travel Award	McCormick N	JA Avina, C Marra	\$500	\$500	Dec-16	Dec-16
Eli Lilly	Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarships	McCormick N	JA Avina, C Marra	\$2,512	\$2,512	Nov-16	Nov-16
CIHR	Undergraduate: Summer Studentship Award – Institute Community Support. Feasibility and preliminary effectiveness of a remote physical activity counselling program for people with inflammatory arthritis	Park C	L Li	\$5,000	\$5,000	May-17	Aug-17
AAC	Arthritis Alliance of Canada - Master's Student Award	Rai S	JA Avina, H Choi	\$750	\$750	Feb-17	Feb-17
Australia	Ken Muirden Fellowship Award (Australia)	Tan JA	JA Avina, J Esdaile	\$50,000	\$100,000	May-15	Apr-17
AAC	Arthritis Alliance of Canada - Doctoral Student Award	Tsao N	M De Vera	\$50,000	\$100,000	Feb-17	Feb-17
CIHR	CIHR Allied Health Professionals Fellowship award -Safety of biologics use during pregnancy: a population-based study of women and infants.	Tsao N	M De Vera	\$750	\$750	May-17	Apr-19

Appendix II

PUBLICATIONS

1. Al Sayah F, Johnson JA, Ohinmaa A, Xie F, **Bansback N**, Canadian EQ-5D-5L Valuation Study Group. Health literacy and logical inconsistencies in valuations of hypothetical health states: results from the Canadian EQ-5D-5L valuation study. *Qual Life Res.* 2017 Jun;26(6):1483-1492.
2. **Aviña-Zubieta JA**, To Fergus, *Vostretsova K, **De Vera M**, **Sayre EC**, **Esdale J**. The risk of myocardial infarction and stroke in newly diagnosed systemic lupus erythematosus: a general population-based study. *Arthritis Care & Research.* 2017 Jun;69(6):849-856.
3. **Aviña-Zubieta JA**, Man A, Yurkovich M, **Huang K**, **Sayre EC**, **Choi HK**. Early cardiovascular disease after the diagnosis of systemic sclerosis. *Am J Med.* 2016 Mar;129(3):324-31.
4. **Aviña-Zubieta JA**, Mai A, **Amiri N**, **Dehghan N**, **Tan J**, **Sayre EC**, **Choi HK**. Risk of myocardial infarction, stroke or both in patients with granulomatosis with polyangiitis: a population-based study. *Arthritis Rheum.* 2016 Nov;68(11):2752-2759.
5. **Bansback N**, **Shojania K**, **Lacaille D**. Improving patient-centred care for rheumatoid arthritis. *CMAJ* 2016 Oct 4;188(14):999-1000.
6. **Bansback N**, Phibbs CS, Sun H, O'Dell JR, Brophy M, Keystone EC, Leatherman S, Mikuls TR, **Anis AH**, CSP 551 RACAT Investigators. Triple therapy versus biologic therapy for active rheumatoid arthritis: a cost-effectiveness analysis. *Ann Intern Med.* 2017 Jul 4;167(1):8-16.
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Appendix II

ABSTRACTS

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