



THE ARTHRITIS RESEARCH CANADA
BOARD MEETING – SEPTEMBER 19, 2024
ANNUAL REPORT OF THE SCIENTIFIC DIRECTOR

TRAINEES

New Trainees

Manuel Ester (Supervisor: **Claire Barber**) joined Arthritis Research Canada Calgary as a new Post-Doctoral fellow. Dr. Ester has a PhD in Kinesiology from University of Calgary and his initial project is focusing on evaluating a new model of care consisting of patient-initiated follow-up for rheumatology care. He is also working on another exercise-related study.

Maribeth Anne (Fortune) Gelisanga, (Supervisor: **Linda Li**) joined Arthritis Research Canada Vancouver as a new Master's student in the Department of Physical Therapy at UBC.

Racheal Githumbi (Supervisor: **Claire Barber**) started as a new PhD student in epidemiology at the University of Calgary. She is a current research associate and is leading the learning health system work at the University of Calgary.

Derin Karacabeyli (Supervisor: **Diane Lacaille**) started his Clinician Investigator Program in July 2024 after completing his Rheumatology clinical training and is enrolled in a Master's program in Experimental Medicine at UBC starting in September 2024, with plans to transfer to a PhD. His research interest focuses on obesity management in people with arthritis.

Judith Jade (Supervisors: **Antonio Avina-Zubieta**, **Kun Huang**, Fergus To) joined Arthritis Research Canada Vancouver from the UK to pursue a Clinical and Research Fellowship in Myositis in the UBC Division of Rheumatology.

Tosin Ogunleye (Supervisor: **Claire Barber**, Co-supervisor: Stephanie Garner) started as a new PhD student in Epidemiology at University of Calgary. Her thesis research will focus on Giant Cell Arteritis, a type of vasculitis.

Trainees who completed their degrees

Lulu Guo (Supervisor: **Hui Xie**) successfully defended her PhD thesis entitled, "*Complier Average Causal Effect Estimation in Randomized Controlled Trials with Multiple Endpoints and Treatment Noncompliance*". In August 2024, Dr Guo started a Postdoctoral Fellowship in the Data Science Program at Harvard University and the

Appendix I

FUNDING FROM JULY 1, 2023 TO JUNE 30, 2024

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

PI(s)	Co-I(s)	Title	Funding Agency	Annual Amount	Total Awarded	Start Date	End Date
Abrahamowicz M	JA Aviña-Zubieta , S Bernatsky, A Bérard, W Dixon, M. Durand, L Eder, S Ferreira Guerra, D Lacaille , S Perreault, L Pilote, R Sapir-Pichhadze, R Tamblyn, J Widdifield, G Yi	New statistical methods for population-based studies of time-varying drug exposures: Development, validation, and real-world analyses of drug safety and effectiveness	CIHR	\$160,650	\$481,950	Apr-22	Mar-25
Bernatsky S, Smargiassi A	M Abrahamowicz, J Aviña-Zubieta , P Awadalla, H Chen, T Dummer, M Goldberg, S Jean, M Johnson, D Levy, J Spinelli, S Weichenthal, J Widdifield	Air pollution and systemic autoimmune rheumatic diseases	CIHR	\$154,530	\$772,650	Oct-18	Sep-23
Tamblyn R, Totino L	Abrahamowicz A, Bartlett S , Buckeridge D, Lee T, McDonald E, Motusky A, Pupo R, Thavon K, Weir D	Evaluating the effectiveness of Smart About Meds (SAM), a mobile app to improve medication management following hospital discharge	CIHR	\$46,139	\$184,556	Apr-22	Mar-26
Aviña-Zubieta A, Esdaile JM	H Choi , M Dawes, M Etminan, D Lacaille, LC Li , D Maberley, K Shojanian, H Xie	Risk of Retinal Toxicity in Patients with Systemic Lupus Erythematosus and Rheumatoid Arthritis on Long-term Hydroxychloroquine Therapy	CIHR	\$141,525	\$707,625	Mar-19	Feb-24

Bernatsky S, Smargiassi A	M Abrahamowicz, J Aviña-Zubieta , P Awadalla, H Chen, T Dummer, M Goldberg, S Jean, M Johnson, D Levy, J Spinelli, S Weichenthal, J Widdifield	Air pollution and systemic autoimmune rheumatic diseases	CIHR	\$128,775	\$772,650	Oct-18	Sep-24
Gomez-Puerta J	R Sanmarti, M G Magaña, JA Aviña-Zubieta , C Carbonell Abella, D Martinez	Disease Burden of Inflammatory Rheumatic Diseases in Cataluña	Spanish Minister of Science and Innovation	\$33,268	\$66,535	Apr-22	Mar-24
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	Canadian Musculoskeletal (MSK) Rehab Research Network	CIHR	\$399,398	\$1,996,990	Jan-20	Dec-24
Bansback N, Harrison M	Anis A, De Vera M , Clement F, Law M, Beall R	Evaluating the impact of a mandatory switching policy for biosimilars	CIHR	\$33,150	\$99,450	Apr-21	Mar-24
van der Veer S, Dixon W	N Bansback	Transforming outpatient consultations by integrating regular symptom tracking into clinical care: the Remote Monitoring of Rheumatoid Arthritis (REMORA2) study	VERSUS Arthritis UK & NIHR	\$925,000	\$3,700,000	Oct-21	Nov-25
Barber C	Jones CA, Barnabe C, Lacaille D, Hazlewood G , Widdifield J, Wallace Y (pt)	Implementation of the Alberta Rheumatology Provincial Learning Health System	CIHR	\$104,549.67	\$313,649	Apr-23	Mar-26

Barber C , Crump T	C Barnabe , E Dempsey, G Hazlewood , A Hoens , S. Katz, J Kopec , D Lacaille , P MacMullan, D Mosher, J Rankin, J Sutherland, K Then	Psychometric evaluation of a measure of care complexity in rheumatoid arthritis	CIHR	\$99,195	\$297,584	Sep-22	Aug-25
Barber C	Hoens A , Manske S, Hazlewood G , Ward R, Lacaille D , Lopatina E , Barber M , MacMullan P, Mosher D, Fifif Ma A, Jung M, Phillips L, Twilt M, Luca N, Then K, Crump T, Osinski K, Job B, Dhiman K, Zafar S, Bhangu G, Subdar S	Development and pilot of a shared-care model for rheumatoid arthritis leveraging an “on-demand” follow-up strategy	CIORA	\$54,898	\$109,796	Jul-22	Jun-24
Barber C	Jones CA , Barnabe C , Lacaille D , Hazlewood G , Widdifield J, Wallace Y (pt)	Implementation of the Alberta Rheumatology Provincial Learning Health System	CIHR	\$104,550	\$313,649	Apr-23	Mar-26
Ahluwalia V, Apple T, Eder L, Laur C, Thorne C, Widdifield J	C Barber , S Bernatsky, G Hawker, C Hofstetter, N Ivers, B Kuriya, L Passalent, P Rochon, L Soever, A Steiman	The Ontario Rheumatology Learning Health System for Transforming Integrated Care for Patients with Rheumatic and Musculoskeletal Disorders	CIHR	\$391,303	\$1,956,515	Apr-23	Mar-28
Beaupre L, Finseth E, Eubank B, Ferguson-Pell M, Sheps D	E Armstrong, C Barber , A Charlton, A Kania-Richmond, J Martyn, P Paul, A Ramadi, J Robert, J Round, C Smith	Using Digital Health to Better Serve Rural Albertans living with Shoulder Pathology: Alberta's Remote Management of ShoUlders Program (ARMS UP)	CIHR	\$264,643.80	\$1,323,219	Apr-23	Mar-28

Tugwell PS, Welch V	S Ali, C Barber , C Barnabe , A Darzi, O Dewidar, G Hazlewood , A Lee, LC Li, O Magwood, L Maxwell, J Petkovic, B Shea, E Tomlinson, K Toupin-April	Reducing inequitable differences in health outcomes in the treatment of Arthritis	CIHR	\$138,974.67	\$416,924	Oct-23	Sep-26
Barber M	C Barber , A Clarke , L Skieth	Healthcare access and quality of care in Albertan patients with systemic lupus erythematosus and antiphospholipid antibodies/antiphospholipid syndrome	Cumming School of Medicine Seed Grant	\$12,500	\$25,000	Apr-23	May-24
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	Alberta Indigenous Mentorship in Health Innovation Network (AIM-HI Network)	CIHR	\$200,000	\$1,000,000	Oct-19	Sep-24
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	Indigenous Primary Health Care and Policy Research (IPH CPR) Network in Alberta	CIHR	\$700,000	\$3,500,000	Oct-19	Sep-24
Barnabe C	C Barber , C Shukalek	Avoidable Acute Care Use for Inflammatory Arthritis Conditions: Groundwork to Improve Inflammatory Arthritis Health Service and System Quality	CIHR	\$313,649	\$313,649	Mar-23	Feb-24

Barnabe C		Implementation and Evaluation of Shared Decision-Making Strategies with Indigenous Peoples for Rheumatoid Arthritis Treatment	University of Calgary Cumming School of Medicine Clinical Research Fund (CRF)	\$12,500	\$25,000	Apr-24	Mar-26
TBA	C Barnabe	Quality of Care for Metis in Alberta Emergency Departments: Co-Creating Understandings and Definitions”	Metis Nation of Alberta	\$104,437	\$313,310	Apr-23	Mar-26
Austen Wiebe VJ, Bill, Kashuba S, MMcLane P, Tailfeathers E	C Barnabe , R Bartel, R Henderson, B Holroyd, A James, K Janvier, J Khangura, M Landry, E Lang, E Louis, R Oster, K Rittenbach, P Roach, T Big Plume, K Foudy	Advancing Anti-Racist and Equity-Oriented Care in the Emergency Department with First Nations Partners	CIHR	\$437,963	\$1,751,852	Apr-23	Mar-27
Boyd S, Cheung A, Morin S	Alexander T, Alos N, Andronowski J, Barnabe C et al (+50)	OsNET: The Canadian Bone Health Research Network	CIHR	\$400,000	\$1,200,000	Jul-23	Jun-26
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	SHRed Injuries: Preventing Injuries and their consequences in youth sport and recreation	CIHR	\$148,493	\$1,039,450	Jul-18	Jun-25
Manske S	C Barnabe, G Hazlewood , P Salat, D Mosher, C Barber , S Barr, R Deardon	Advanced multi-modal imaging to predict early inflammatory arthritis progression	The Arthritis Society	\$124,843	\$374,530	22-Mar	Feb-24

Benseler S, Haddad E, Yeung R	Morris QD	Precision Decisions in MIS-C: Towards improving outcomes in children with COVID-19	CIHR	\$229,500	\$459,000	Mar-23	Feb-24
Benseler S, Miettunen P, Esser M		Efficacy, safety and tolerability, pharmacokinetics and pharmacodynamics, of emapalumab in children and adults with macrophage activation syndrome (MAS) in juvenile and adult-onset Still's disease and Systemic lupus erythematosus	Swedish Orphan Biovitrum (SOBI) AG	\$119,430	\$238,859	Apr-22	Mar-24
Benseler S, Marshall DA, Wilson J	Celluci T, Currie G, Page S, Stringer E, Swart J, Wulfraat N, Yeung R	Producing an Arthritis Value- framework with economic Evidence - Paving the Way for Rare Childhood Diseases	CIHR	\$150,000	\$300,000	Jan-22	Dec-24
Andrade B, Archibald M, Benchimol E, Birkin C, Chafe R, Chaillet N et al	S Ali, S Anthony, D Beal, A Beaudoin, M Beggs, R Bell, S Benseler et al	Empowering Next-generation Researchers in perinatal and Child Health (ENRICH)	CIHR	\$125,000	\$500,000	Jan-22	Dec-27
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	Air pollution and systemic autoimmune rheumatic diseases	CIHR	\$154,530	\$772,650	Oct-18	Sep-24

Choi M	Clarke AE , Costenbader K, Elliott S, Skeith L	SLE-CALCULATOR: Systemic Lupus Erythematosus Cardiovascular Disease Event Risk Prediction Using Machine Learning Techniques and Novel Thrombotic Autoantibodies	CIHR	91,800	\$183,600	Oct-21	Sep-23
Choi M		CLIMB: Complement activation Levels and Interferon activity as novel Myositis Biomarkers	The Arthritis Society	119,000	357,000	Apr-24	Mar-27
Cibere J	J Esdaile , B Forster, J Kopec , L Li , D Wilson, H Wong,	Population-based longitudinal cohort study of femoroacetabular impingement of the hip using magnetic resonance imaging outcomes	CIHR	\$177,225	\$531,674	Oct-20	Sep-25
Vinet E	S Bernatsky, AE Clark , PR Fortin , J Hanly, C Peschken, Z Touma	Risk stratification and personalized therapy in lupus pregnancies	CIHR	\$151,470	\$757,350	Oct-22	Sep-27
Colmegna I , Fortin PR	Bernatsky S, Ward B, Flamand L, Dionne M	COVID-19 Vaccine in Immunosuppressed Adults with Autoimmune Diseases	Province of Quebec Ministry of Health	\$800,000	\$800,000	Dec-21	Nov-22
Colmegna I , Nijnik A, Langlais D		Hematopoietic stem and progenitor cells as mediators of trained immunity in rheumatoid arthritis	CIHR	\$199,800	\$999,000	Oct-20	Sep-25
Colmegna I , Costiniuk C, Pelaez S	Legare J, Merry L, Ruppenthal L	COVID-19 Vaccine Confidence Among At-Risk and Under-Vaccinated Groups Within HIV and Rheumatic diseases (CONFIDENCE)	CIHR	\$74,750	\$149,500	Oct-21	Sep-23

Colmegna I,		Circulating extracellular vesicles in rheumatoid arthritis: Novel biomarkers of methotrexate treatment response	TAS	\$50,000	\$100,000	Feb-22	Jan-24
Greenwood C	I Colmegna, M Hudson	X-inactivation in rheumatoid arthritis and impact on sex-specific disease risks	TAS	\$125,536.67	\$376,610	Apr-24	Mar-27
Da Costa D	M De Vera, PR Fortin, E Rahme, E Vinet, F de Montigny	Mental Health in Individuals with Autoimmune Rheumatic Diseases During the Transition to Parenthood: A Mixed Methods Study to Identify Associated Factors and Support	CIHR	\$79,560	\$198,900	Apr-23	Sep-25
De Vera M	N Amiri, E Sayre, S Ensworth, C Baldwin, N Rebic	Following maternal, neonatal, and childhood outcomes associated with use of arthritis medications perinatally (FAMILY)	The Arthritis Society	\$140,000	\$420,000	Apr-23	Mar-26
De Vera M	C Barnabe, A Avina-Zubieta, N Gheshlaghi, M Harrison, P Kang, M Thomas	Applying an equity and intersectionality lens to understanding the burden of arthritis on aging Canadians (APPROACH)	CIHR	\$69,094	\$69,094	Jul-24	Jun-25
Dutz J		Inhibition of tissue resident memory T-cells as a therapy for contact hypersensitivity	CIHR - Operating Grant: Canadian Dermatology	\$25,000	\$50,000	Sep-22	Aug-24

Boilard, E	Droit A, Fortin PR	Role of megakaryocytes in Systemic Lupus Erythematosus	CIHR	\$146,880	\$734,400	Apr-23	Mar-28
Boilard, E	P Fortin , C Belleannee, S Lacroix	Platelets and neutrophils: The two culprits mediating pain in inflammatory arthritis	CIHR	\$96,390	\$910,350	Apr-20	Mar-25
Bourgoin S	Fortin P	Role of phosphatidylserine-specific phospholipase A1 (PLA1A) in the pathogenesis of rheumatic diseases	The Arthritis Society	\$150,000	\$450,000	Apr-23	Mar-26
Dieudé M	P Fortin , E Boillard, H Cardinal,	Impact of Vascular Injury Derived Exosomes on Lupus Nephritis	CIHR	\$115,515	\$577,575	Apr-22	Mar-27
Hazlewood G , Tugwell P, Wells G	Bansback N, Barber CE , Elliott J, Kamso M , Kelly S, Maxwell M	Living systematic reviews of pharmacological treatments for Rheumatoid Arthritis	CIHR	\$46,279	\$185,114	Oct-21	Sep-25
Hazlewood G , Wells G	N Bansback, C Barber, C Barnabe , C Bombardier, V Bykerk, P Charlton, A Scott, D Choquette, R Deardon, J Elliott, MM Kamso , S Kelly, L Proulx, L Richards, O Schieir, J Thomas	Personalizing the choice of therapy in rheumatoid arthritis	CIHR	\$420,752	\$420,752	Apr-22	Mar-26
Graham MM, James MT, Sajobi T, Wilton SB	O Awosoga, B Har, G Hazlewood , L Lix, A McRae, C Norris, MJ Parilla Lopez, H Quan, RD Turgeon, T Wilson, M Wang	Characterizing patient preferences and personalizing risk information for optimal patient-centered management of coronary artery disease	CIHR	\$127,181	\$508,724	Apr-23	Mar-27

Tugwell PS, Welch V	S Ali, C Barber, C Barnabe , A Darzi, O Dewidar, G Hazlewood, A Lee, LC Li, O Magwood, L Maxwell, J Petkovic, B Shea, E Tomlinson, K Toupin-April	Reducing inequitable differences in health outcomes in the treatment of Arthritis	CIHR	\$138,974.67	\$416,924	Oct-23	Sep-26
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	Drug Safety and Effectiveness Network Methods and Applications Group in Indirect Comparisons (DSEN MAGIC) Team	CIHR	\$272,174	\$816,522	Apr-20	Mar-25
Hoa S	D Assayag, M Baron, S Golch, M Hambly, M Hudson , M Larche, JL Senecal	Randomized Double-Blind Placebo-Controlled Clinical Trial to Assess the Efficacy of Mycophenolate Mofetil in Subclinical Interstitial Lung Disease Associated with Systemic Sclerosis: a Feasibility Study	CIHR	\$92,437	\$346,640	Oct-22	Jun-26
Archambault P, Awadalla P et al	Allin S, Arino J, Hoens A et al +50	Long COVID Web: Pan-Canadian Post-COVID Condition Research Network	CIHR	\$3,999,923	\$19,999,614	Nov-22	Oct-27
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	Improving pain education across entry-level physiotherapy programs in Canada: An integrated knowledge translation study	CIHR	\$120,870	\$604,350	Apr-21	Mar-26

Hudson M, Colmegna I, Farge D	Hoa SA, Laneuville P, Peltier L, Resche-Rigon M, Schnitzer M	Phase I/II randomized controlled clinical trial of umbilical cord-derived mesenchymal stromal cells in refractory systemic sclerosis	CIHR	\$140,000	\$420,000	Apr-19	Mar-24
Hudson M, Johnson S, Denton C	Hoa SA, Stern E	Multicriteria decision analysis with 1000 Minds for developing scleroderma renal crisis classification criteria	CIORA	\$60,000	\$60,000	Oct-23	Sep-24
Hudson M	Hoa S, Miller W, Lapointe R, Del Rincon S, Esfahani K	Identification of immune signatures of rheumatic immune-related adverse events secondary to immune checkpoint inhibitors	TAS	\$150,000	\$450,000	Apr-24	Mar-27
Leask A, Philip A	M Hudson	Characterization of a novel anti-fibrotic peptide for the treatment of scleroderma	CIHR	\$97,308	\$486,540	Apr-21	Mar-26
Jamal S, Appleton T	C Ye, J Pope, M Hudson	Early Adalimumab Induction for Treatment of Steroid-Dependent Checkpoint Inhibitor Associated Inflammatory Arthritis: A Pragmatic Randomized Clinical Trial	CIORA	\$58,200	\$116,400	Oct-23	Sep-25
Jones CA, Drummond N	Barnabe C, Barber CEB	Rheumatoid Arthritis in Canadian Primary Care Settings: Epidemiology, Management of Care and Patient Experience	The Arthritis Society	\$99,884	\$299,652	Apr-21	Mar-24

Lacaille D	Bansback N, Barber C, Barnabe C, Bartlett S, Colmegna I, Da Costa D, Fortin P, Hazlewood G, Hoens A, Koehn C, Li L, Michou L, Oelke N	FlexCAre: Co-developing a Flexible Care Delivery Model for Inflammatory Arthritis	The Arthritis Society	\$112,500	\$450,000	Dec-22	Mar-26
Morton L, Lacaille D	GJ Macfarlane, R Hollick, K Walker-Bone	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.	Government of Scotland, £232,840	\$402,500	\$402,500	Jan-22	Dec-23
Li LC , Liu Ambrose T	C Bartha, J Brubacher, J Davis, T Dignum, R Falck, C Hsu, M Kho, T Manyango, L Nagamatsu, N Parmar, D Skelton, O Theou, H Wong	ACTIVE: Adding Life to Years in Cognitive Frailty by Preventing Falls	CIHR	\$163,710	\$818,550	Apr-23	Mar-28
Kho ME, Chan TMY, Marshall JC, Murthy S, Muscedere J, Park S	Archambault P, Ball I, Boyd J, Brooks D, Burns K, Choong K, Carayannopoulos K, Caron C, Cook D, D'Aragon F, Duan E, Fowler R, Li LC , Fox-Robichaud A, Herridge M, Karachi T, Reeve B, Lamontagne F, Lee L, Lewis K, Mehta S, Reid J, Rochweg B, Rudkowski J, Seely A, Semrau J, Thabane L, Tsang J, Williamson D	CYCLE RCT: Process evaluation, end-of-grant knowledge translation, and planning for future ICU survivorship rehabilitation interventions	CIHR	\$100,000	\$100,000	Apr-23	Mar-24

Hamilton C, Tugwell P, Li L	A Hoens , D Beaton, C Hofstetter, L Maxwell, A McKinnon , S McQuitty	Listening to Patient Partners - From developing evidence-based tools for advancing meaningful patient engagement in research to now implementing them at an international organization for rheumatology research	CIHR- Research Excellence Prize, Patient Engagement	\$25,000	\$25,000	Sep-23	Aug-24
Li LC , Liu-Ambrose T, Davis J	R Falk, K Madden, R Rhodes, M Sadatsafavi, HC Wong	SuPA Mobility: Supporting Physical Activity to Promote Mobility in Mobility-Limited Older Adults	CIHR	\$105,188	\$631,128	Apr-21	Mar-27
Li LC , Liu-Ambrose T	Bartha C, Davis J, Falck R, Feehan L, Hoens A , Holmes B, Kho M, Leese J , Ma J , Mackay-Lyons M, Madden K, Mayo N, Theou O, Wong H, Xie H	Moving More: Supporting uptake of evidence for physical activity in older adults with complex health care needs	CIHR	\$129,094	\$516,376	Apr-22	Sep-25
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	SPOR Evidence Alliance	CIHR	\$2,630,000	\$2,630,000	Jul-22	Dec-23

Li LC	T Liu-Ambrose, S Murphy, F Feldman, M Oakey, J Davis, J Ma , C Koehn, L Dian, D Jehu, H Xie	Implementing an evidence-based exercise program to reduce falls in community-dwelling seniors	MSFHR	\$166,667	\$500,000	Apr-18	Mar-24
Jung ME, Alexander A, Casmey S, Coes C, Compton S, Cullen L, Hartley-Folz S, Hughes CL, Kyle JL, Logan SM, Paterson K, Squires S, Bean C, Fuller DL, Li LC , Martin Ginis KA, Sherifali DT, Witteman HM	Davis JC, McGavock JM, Ndjaboue R, Singer J, Strachan SM	Small steps for big changes: Implementing an evidence-based diabetes prevention program into diverse urban communities	CIHR	\$493,117.17	\$2,958,703	Oct-22	Sep-28
Black A, Bosma R, Fernandez N, Goldwitz D, Kent A, King M, Leblanc A, McCormick R, Poitras ME, Robinson-Settee	Abou-Setta A, Atherton P, Aubin D, Bacon S, Li LC , Tricco A et al	Innovative National Strategies for Patient-Oriented Research Education / Stratégies Nationales Innovantes pour l'Éducation en Recherche axée sur le Patient (INSPIRE)	CIHR	\$875,000	\$5,250,000	Mar-21	Feb-27

Bourbeau J, Anderson DR, Batist G, Bell EC, Benoit BL, Collister D, Dasgupta K, Fahim C, Fergusson DA, Filion KB, Gahagan JC, Goos L, Khan NA, King M, Li LC , Mitra S, Morin SN, Pilote L, Reiman T, Richer LP, Saleh RR, Sapp JL, Tomblin Murphy GG, Yeh, AE	Lacaille D, Bansback N and 58 co-investigators	Canadian Consortium of Clinical Trial Training (CANTRAIN) platform: enhancing career preparedness in RCT research targeting different audiences across the continuum	CIHR	\$3,772,441	\$11,317,324	Sep-22	Aug-25
Crizzle A, Elzohairy Y, Vrkljan B	J Dow, G Equakun, LC Li, S Marshall , N Meger, E Mychael et al	Medically at-risk drivers: The road to developing evidence-based fitness to drive guidelines	CIHR	\$133,875	\$803,250	Apr-18	Mar-24
Guzman, J	Cabral D, Feldman B, Li LC , Loughin T, Stringer E, Toupin-April K, Tucker L	Treating children with arthritis according to their individual probability of outcomes and response to treatments - The PERSON-JIA Trial	CIHR	\$91,035	\$455,175	Apr-21	Mar-26

J Robinson, S Singh	L Battersby, T Bubela, P Casari, L Funnell, A Godfreyson, S Hajazi, R Kherani, LC Li , J Matheson, I Mathes, T O'Callaghan, S Smith, M Tecson, D Whitehurst	Preventing the next fracture: Spreading Fracture Liaison Service across British Columbia	CIHR	\$150,000	\$150,000	Mar-23	Feb-24
Tucker L	Guzman J, Cabral D, Feldman B, Li LC , Loughin T, Stringer E, Toupin-April K, Tucker L	PERSON-JIA: the Personalized Estimates of Response and Severity Outcomes in Newly-diagnosed Juvenile Idiopathic Arthritis trial	The Arthritis Society	\$98,026.67	\$294,080	Apr-21	Mar-26
Marshall DA , Johnson J	Wozniak L, Ademola I, Smith C	Effectiveness of an individualized decision aid for total knee arthroplasty implemented in routine clinical practice	EUROQOL	\$134,946	\$269,891	Apr-23	Mar-25
Baumgart D, Bercik P, Bernstein C, Calliou S, D'Silva A, Daley K, De Nino A, De Souza R, Marshall DA , Nguyen G, Otley A et al		IMAGINE (Inflammation, Microbiome, and Alimentation: Gastro-Intestinal and Neuropsychiatric Effects) SPOR Chronic Disease Network - Knowledge Mobilization & Implementation Science Phase 2	CIHR	\$183,438	\$733,750	Apr-22	Mar-26

Bryan S, Doupe M, Gallant N, Lopatina E , Manhas K, Jot P, McGrail K, Noseworthy T, Singal D, Wasylak T, Zelinsky S, Marshall DA	Bielska I, Bruce M, Hamilton C et al	Enhancing a Community of Practice for the Health System Impact Fellowship Program: Advancing Capacity for Sustainable & Patient-Centred Learning Health Systems across Canada	CIHR	\$140,000	\$350,000	Jul-22	Dec-24
Westby M	Marshall DA, Backman C, Barber C, Koehn C, Kerr S	Moving towards equity in hip and knee replacement rehabilitation: A feasibility study to test implementation of online quality indicator toolkits	The Arthritis Society	\$100,000	\$200,000	Apr-22	Mar-24
Gagliardi A	Marshall D, Hazlewood G	Co-generating strategies to support equitable person-centred early diagnosis and management of osteoarthritis	The Arthritis Society	\$115,167	\$345,500	Apr-21	Mar-24
Michou L		the study of SUPT20H in the pathogenesis of rheumatoid arthritis	French Rheumatology Association	\$13,500	\$27,000	Apr-22	Mar-24
Prlic H	L Li, H Xie, D Lacaille, A Aviña-Zubieta	Osteoarthritis and cognitive function: A population-based cross-sectional study	Arthritis Health Professions Association	\$11,500	\$11,500	Apr-23	Mar-24
J Whittaker	E Roos	OPTIKNEE: An international consensus to optimize knee health after knee injury	CIHR	\$25,000	\$25,000	Jul-23	Jun-24

J Whittaker, K Kausky		Navigating the maze: Supporting family physicians in rapid, accurate diagnosis, management, and referral of acute knee trauma	SharedCare - Government of British Columbia and Doctors of BC	\$15,000	\$15,000	Jul-22	Jun-24
J Whittaker	A Hoens, H Xie, LC Li, J Davis, A Mosewich, M Miciak, E Roos, Patient Collaborators: T Silvester-Lee, A Ko	Self-managing knee health in young people at high-risk of early-onset osteoarthritis: The MyKnee randomized controlled trial	TAS	\$150,000	\$450,000	Apr-24	Mar-27
J Whittaker	J Davis, A Hoens , M Hunt, L Li, J Losciale , M Miciak, A Mosewich, E Roos, A Sheikh, L Truon, D Wilson, H Xie, Collaborator: T Silvester-Lee	The Stop Osteoarthritis (SOAR) Hybrid Effectiveness-Implementation Type 1 Randomized Controlled Trial for Young People at-High-Risk of Early Onset Knee Osteoarthritis	CIHR	\$100,000	\$100,000	Apr-24	Mar-25
Ellis R	J Whittaker	Community of practice co-creation of a life-span approach to managing ACL injury	Health Research Council of New Zealand	\$24,118	\$24,118	Apr-24	Mar-25
D O'Brien	J Whittaker , Reid, R Ellis, T Wilson-Uluinayau	Exploring the medium to long term well-being of people with post-traumatic knee osteoarthritis following ACL tear in Aotearoa (New Zealand)	Arthritis New Zealand	\$45,630	\$45,630	Jul-22	Jun-25

Xie, H		Knowledge Discovery Using Nonrandom Data Samples	Natural Sciences & Engineering Research Council (NSERC)	\$21,000	\$105,000	Apr-24	2029--3-31
W Zhang	M Gignac, G Johnd, D Lacaille , C McLeod	Trajectories of work productivity loss: Working from home and insights during COVID-19	CIHR	\$70,000	\$70,000	Apr-24	Mar-25
Annual Total 2023-2024				\$25,446,846			

SCIENTIST FUNDING - Salary Grants					
Peer Review					
Funding Agency	Title	Faculty	Start/End Date	Annual Amount	Total Awarded
BC Lupus	Lupus Scholar Award	Aviña A	2010 - 2023	\$50,000	\$650,000
CIHR	Canada Research Chair in Rheumatoid Arthritis and Autoimmune Diseases (Tier 2)	Barnabe C	Oct 19 - Sep 24	\$100,000	\$500,000
CIHR	Canada Research Chair in Health Outcomes & Treatment Adherence (Tier 2)	De Vera M	Apr 22 - Mar 27	\$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
Canada Research Chair Program	Canada Research Chair in Patient-Oriented Knowledge Translation	Li L	Apr-19 - Mar 24	\$100,000	\$500,000

UBC	Knowledge Exchange and Mobilization (KxM) Scholar Award	Ma J	Apr 23 - Mar 25	\$10,000	\$20,000
MSFHR	MSFHR Salary Award	Whittaker J	Jul 20 - Jun 25	\$90,000	\$450,000
Annual Total				\$650,000	
2023-2024					

Endowed Chairs

UBC	Mary Pack Chair	Lacaille D	Sep 11 -		
UofC	Arthur J.E. Child Chair in Rheumatology Outcomes Research	Barnabe C	July 22 -		
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	Sep15 -		

TRAINEE AWARDS

Funding Agency	Award Type and/or Research Title	Trainee	Supervisor	Start/End Date	Annual Amount	Total Awarded
The Scientific and Technological Research Council of Turkey	Postdoctoral Research Fellowship award	Bayraktar D	Li L	Jul 23 - Jun 24	\$46,120	\$46,120

MITACS	Targeted synthetic and biosimilar disease modifying antirheumatic drugs in pregnancy: Patterns of use among females with rheumatic diseases and outcomes	Cheng V	De Vera M	Jan 24 - Feb 25	\$45,000	\$45,000
University of British Columbia	Andrew Nord Fellowship in Rheumatology	Daftarian N	Aviña-Zubieta JA	Jul 22 - Jun 26	\$22,000	\$88,000
CIHR	Doctoral Research Award - RetINal Toxicity And hydroxyChloroquine Therapy (INTACT)	N Daftarian	Aviña-Zubieta JA	Jun 23 - May 26	\$35,000	\$105,000
UBC	University of British Columbia 4-year Fellowship	Losciale, J	Whittaker J	Jul 22 - Jun 26	\$18,200	\$72,800
	PhD Salary Award for The Stop OsteoARthritis (SOAR) Proof-of-Concept Delayed Control Randomized Trial: Can We Mitigate A Key Risk Factor for Osteoarthritis following Sport-related Knee Trauma?"	Losciale, J	Whittaker J	Sep 21 - Aug 25	\$10,500	\$31,500
MITACS	Comparing the risk of adverse events across different classes of biologics prescribed for inflammatory arthritis	Mooloogy K	Lacaille D	Jan 24 - Feb 25	\$45,000	\$45,000
MITACS	Data linkage and Artificial Intelligence approaches to improving rheumatoid arthritis data quality and case detection using health administrative data and primary care data in Alberta, Canada	Pham A	Jones CA	Feb 22 - Feb 24	\$60,000	\$120,000

Michael Smith Health Research BC Research	Trainee Award - Exploring the Lived Experiences of Sexual and Gender Minority Populations Living with Arthritis: A Patient Engagement Centered Approach	Primeau C	Li L	Apr 23 - Mar 26	\$49,500	\$148,500
The Arthritis Society	Postdoctoral Research Fellowship award - Exploring the Lived Experiences of Sexual and Gender Minority Populations Living with Arthritis: A Patient Engagement Centered Approach	Primeau C	Li L	Oct 23 - Sep 26	\$50,000	\$150,000
CIHR Banting Post-doctoral Fellowship	Leveraging Citizen Science for Inclusive Pain Research: Maximizing Public Engagement for Co-Developing Research Questions with Sexual and Gender Minority Communities	Primeau C	Li L	May 24 - Apr 26	\$70,000	\$140,000
CIHR	Postdoctoral Research fellowship - Prouricemic diets, microbial composition and functional potential, and plasma uric acid	Rai S	Choi H	Oct 22 - Sep 25	\$50,000	\$150,000
UBC	School of Graduate and Postdoctoral Studies Friedman Award	Rebic N	De Vera M	Oct 22 - Sep 23	\$37,500	\$37,500

CIHR	Doctoral Research Award - Optimizing medication and vaccination adherence in rheumatoid arthritis in the COVID-19 era: Development of a patient-centred intervention	Ta V	Bartlett S	Jun 23 - May 26	\$35,000	\$105,000
UBC	Killam Doctoral Scholarship	Thomas M	De Vera M	Apr 22 - Mar 24	\$32,000	\$64,000
CIHR	Doctoral Research Award - Assessing equity considerations in the research and care of patients with inflammatory arthritis (ACCESS)".	Thomas M	De Vera M	Jun 23 - May 26	\$35,000	\$105,000
The Arthritis Society	PhD Salary Award - Differences in health for patients with inflammatory arthritis: Are they preventable?	Thomas M	De Vera M	Oct 21 - Sep 24	\$10,500	\$31,500
The Arthritis Society	PhD Salary award - Moving towards the personalization of treatment choices in rheumatoid arthritis: Combining clinical modelling strategies to personalize risk estimates	Thomas-Purdue J	Hazlewood G	Oct 23 - Sep 26	\$17,500	\$52,500
University of Calgary	Alberta Graduate Excellence Scholarship Award.	Thomas-Purdue J	Hazlewood G	Sep 23 - Aug 24	\$12,000	\$12,000
CIHR/CANTRAIN	CANTRAIN-CTTP Doctoral Studentship	Thomas-Purdue J	Hazlewood G	Sep 23 - Aug 24	\$35,000	\$35,000

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
CIHR	Doctoral Research Award - Access to outpatient physiotherapy in British Columbia following anterior cruciate ligament injury	Worthington H	Li L	Apr 23 - Mar 25	\$35,000	\$105,000
CIHR	Canada Graduate Scholarship award for her project "A Better Match: Transforming rheumatoid arthritis care using text-based messaging	Zafar S	Barber C & Hazlewood G	Apr 22 - Mar 24	\$17,500	\$17,500
Annual Total 2023-2024					\$895,320	

Appendix II – Publications & Abstracts, July 1, 2023 – June 30, 2024

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

PUBLICATIONS

1. Abbaticchio A, Theodorlis M, **Marshall D**, MacKay C, Borkhoff CM, **Hazlewood GS**, Battistella M, Lofters A, Ahluwalia V, Gagliardi AR. Policies in Canada fail to address disparities in access to person-centred osteoarthritis care: a content analysis. *BMC Health Serv Res*. 2024 Apr 25;24(1):522. doi: 10.1186/s12913-024-10966-5.
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3. **Abrahamowicz M**. Assessing cumulative effects of medication use: New insights and new challenges. *Pharmacoepidemiol Drug Saf*. 2024 Jan;33(1):e5746. doi: 10.1002/pds.5746. Epub 2023 Dec 27.
4. Abuwa C, Abbaticchio A, Theodorlis M, **Marshall DA**, MacKay C, Borkhoff CM, **Hazlewood GS**, Battistella M, Lofters A, Ahluwalia V, Gagliardi AR. Identifying strategies that support equitable person-centred osteoarthritis care for diverse women: content analysis of guidelines. *BMC Musculoskelet Disord*. 2023 Sep 14;24(1):734. doi: 10.1186/s12891-023-06877-x.
5. Ahmadian S, Johnson KM, Ho JK, Sin DD, Lynd LD, **Harrison M**, Sadatsafavi A. Cost-Effectiveness Analysis of Azithromycin for the Prevention of Acute Exacerbations of Chronic Obstructive Pulmonary Disease. *Ann Am Thorac Soc*. 2023 Dec;20(12):1735-1742. doi: 10.1513/AnnalsATS.202304-301OC.
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7. Ahmed S, Parks-Vernizzi E, Perez B, Arnold B, Boucher A, Hossenbaccus M, Correia H, **Bartlett SJ**. Translation and linguistic validation of 24 PROMIS item banks into French. *Qual Life Res*. 2024 Jun 12. doi: 10.1007/s11136-024-03690-4. Online ahead of print.
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- randomised-controlled trial of SEL-212 (pegadricase plus rapamycin-containing nanoparticle, ImmTOR™) versus pegloticase for refractory gout. *Rheumatology (Oxford)*. 2023 Jul 14;kead333. doi: 10.1093/rheumatology/kead333. Online ahead of print.
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A narrated graphical abstract for the paper (developed with Monika) is also available on YouTube at https://www.youtube.com/watch?v=JxkL8w_buAo

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Dana-Farber Cancer Institute. Building on her doctoral work, she will apply adaptive clinical trial designs for biomarker validation studies.

Alyssa Howren (Supervisor: **Mary De Vera**) successfully defended her PhD thesis on December 12, 2023. Her thesis was entitled *“Exploring Health Care Encounters and Treatments for Mental Disorders in Individuals with Inflammatory Arthritis: Epidemiologic and Health Services Research Studies”*. She is now pursuing a post-doctoral fellowship in epidemiology at Stanford University with Dr Julia Simard.

Bocheng Jing (Supervisor: **Hui Xie**) successfully defended his PhD thesis in January 2024. His thesis was entitled *“Local Sensitivity to Nonignorable Missingness in the Overdispersed Count Outcome Using Negative Binomial Model”*.

Gloria Li (Co-Supervisors: **Antonio Avina-Zubieta** and Mahyar Etminan) successfully defended her PhD thesis on March 25, 2024. Her thesis was entitled *“Evaluating the association between anti-TNF-alpha treatment and multiple sclerosis in autoimmune conditions: insights from health administrative data and methodological challenges”*. She will be pursuing a post-doctoral fellowship at the university of California in San Francisco (UCSF) with Dr. Jinoos Yazdany to further develop skills applying artificial intelligence to epidemiology studies. She received a 3-year CIHR Postdoctoral fellowship for her project *“Liver Toxicity Monitoring in Users of Disease-Modifying Antirheumatic Drugs: Use of Real-World Data to Examine Patient Safety Errors and Predict Adverse Events”*.

Darren Mazzei (Supervisor: **Deborah Marshall**) successfully defended his PhD thesis on December 12, 2023. His thesis was entitled *“The Need, Value and Affordability of First-line Treatments for Hip and Knee Osteoarthritis in Alberta”*.

Maureen O’Brien (Supervisor: Ranita Manocha, Co-supervisor **Cheryl Barnabe**), successfully defended her Master’s thesis on July 26, 2024. Her thesis was entitled *“The Feasibility and Usability of a Novel Tool for Learning and Reviewing Walking Aid Skills: A Multi-Method Study”*.

Thalia Otamendi (Supervisor: **Linda Li**) successfully defended her PhD thesis in November 2023 Her thesis title was *“The Role of Illness Perceptions in Mental Health Treatment-seeking and Outcomes After Mild Traumatic Brain Injury”*.

Tita Szlachetka (Supervisor: **Diane Lacaille**), successfully defended her Master’s thesis on August 15, 2024. Her thesis was entitled *“Cognitive Function in People with Rheumatoid Arthritis.”*

Linda Truong (Supervisor: **Jackie Whittaker**) successfully defended her PhD thesis, on September 28, 2023. The title of her thesis was *“It Takes a Village: The Role of Social Support During Recovery from Sport-related Knee Injuries”*. She is pursuing a Post-Doctoral Fellowship in the Department of Physical Therapy at UBC.

Summer Students

Zanir Bhanji (Supervisor: **Cheryl Barnabe**) was a summer student at Arthritis Research Canada Calgary, His project title was *“Acuity of Emergency Department Visits for Ambulatory Care Sensitive Conditions by Persons with Rheumatoid Arthritis: A Population-Based Study”*.

Gracie Burns (Supervisor: **Alex Legge**) was a CRA summer student at Arthritis Research Canada Halifax. She is a medical student at Dalhousie University entering her second year. Her project was entitled *“Developing and Evaluating a Laboratory-based Frailty Index (FI-Lab) for the Prediction of Long-Term Health Outcomes in Systemic Lupus Erythematosus”*.

Laurie Champagne and **Lisa Hannane** (Supervisor: **Laëtitia Michou**) were summer students at l’Université Laval working on a project entitled *“Study of cardiovascular events and vascular calcifications in Paget’s disease of bones.”*

Timothy Cheng (Supervisor: **Diane Lacaille**) was a Summer Coop student at Arthritis Research Canada Vancouver. He was involved in conducting a *survey to people with rheumatoid arthritis to understand risk factors for complications of inflammation in people with rheumatoid arthritis, as part of the PRECISION study.”*

Ciana Sudheer (Supervisor: **Cheryl Barnabe**) was a summer student at Arthritis Research Canada Calgary. Her project title was *“Specific-Cause Hospitalizations for Psoriatic Arthritis, Ankylosing Spondylitis, and Gout Patients: A Systematic Review”*.

Alandra Ward (Supervisor: **Cheryl Barnabe**) was a summer student at Arthritis Research Canada Calgary. Her project title was *“A Systematic Review of the Proportions and Rates of Specific Cause Hospitalizations in People with Rheumatoid Arthritis”*. She was awarded the 1st place prize for her poster presented at the McCaig Institute Summer Student Symposium, Aug. 14th, 2024.

Michael Wu (Supervisor: **Diane Lacaille**) is an internal medicine resident who worked on research project over the summer at Arthritis Research Canada Vancouver. He is conducting a *scoping review on the use of virtual care in rheumatology*.

Trainee Salary Awards

Nicole Andersen (Supervisor: **Deborah Da Costa**) was awarded \$21,875 from the Canadian Institutes of Health Research for her Master’s in Clinical Counselling, Psychology. Her Master’s thesis project will evaluate *“the adaptation of an online program to improve sleep for people living with arthritis”*.

Vienna Cheng (Supervisor: **Mary De Vera**) received a MITACS Accelerate award of \$45,000 over 12 months for her Master's in Pharmaceutical Sciences. The title of her project is *"Targeted synthetic and biosimilar disease modifying antirheumatic drugs in pregnancy: Patterns of use among females with rheumatic diseases and outcomes"*.

Kasra Moolooghy (Supervisor: **Diane Lacaille**) received a MITACS Accelerate award of \$45,000 over 12 months for his Master's in Experimental Medicine. The title of his thesis project is *"Comparing the risk of adverse events across different classes of biologics prescribed for inflammatory arthritis"*.

Codie Primeau (Supervisor: **Linda Li**) was awarded a three-year, \$150,000 the Arthritis Society Postdoctoral Fellowship Salary Award for his project *"Exploring the Lived Experiences of Sexual and Gender Minority Populations Living with Arthritis: A Patient Engagement Centered Approach"*.

Codie Primeau (Supervisor: **Linda Li**) was selected for a prestigious two-year \$140,000 Canadian Institutes of Health Research Banting Post-Doctoral Fellowship for his research entitled, *"Leveraging Citizen Science for Inclusive Pain Research: Maximizing Public Engagement for Co-Developing Research Questions with Sexual and Gender Minority Communities"*.

Nevena Rebic (Supervisor: **Mary De Vera**) received the UBC Andrew Nord Fellowship in Rheumatology Masters Award of \$14,666.67 for the 2023 academic year.

Jocelyn Thomas (Supervisor: **Glen Hazlewood**) received a trio of salary awards to support her PhD for her project: *"Moving towards the personalization of treatment choices in rheumatoid arthritis: Combining clinical modelling strategies to personalize risk estimates"*.

- 1) A three-year, \$52,500 PhD Salary Award from the Arthritis Society;
- 2) A one-year, \$12,000 University of Calgary Alberta Graduate Excellence Scholarship Award. The award "recognizes outstanding academic achievement of students pursuing graduate studies in Alberta";
- 3) A one-year \$35,000. CANTRAIN-CTTP Doctoral Studentship 2023 Award. CANTRAIN is a new CIHR-funded clinical trials training program.

Trainee Other Award and Honours

Deniz Bayraktar (Supervisor: **Linda Li**), who completed his visiting professorship at UBC in June 2024, was promoted to Associate Professor at his home university, Izmir Katip Celebi University in Izmir, Turkey, in April 2024.

Derin Karacabeyli (Supervisor: **Diane Lacaille**) received the 2024 Experimental Medicine Entrance Award of \$5,000 from the UBC Faculty of Medicine.

Derin Karacabeyli (Supervisor: **Diane Lacaille**) received the Phil Rosen Award for the Best Abstract on Clinical or Epidemiology Research by a Trainee at the Canadian Rheumatology Association Annual Meeting.

Natalie McCormick (Supervisor: **Hyon Choi**) was awarded the new ACR Emerging Investigator Excellence Award for the Metabolic & Crystal Arthropathies – Basic & Clinical Science category, for her abstract on premature mortality in gout.

FACULTY

New Appointments

Deniz Bayraktar was appointed an Arthritis Research Canada Affiliate Scientist in June 2024. His research focuses on improving rehabilitation outcomes in patients with juvenile idiopathic arthritis and adult-onset inflammatory arthritis.

Kun Huang was appointed an Arthritis Research Canada Clinician Investigator in September 2023. Her clinical expertise and research is in a group of diseases of the muscles called auto-immune inflammatory myositis.

Hyein Kim was appointed an Arthritis Research Canada Clinician Investigator in June 2024. Her clinical expertise and research interest is in scleroderma and interstitial lung diseases associated with connective tissue diseases.

Valerie Leclair was appointed an Arthritis Research Canada Research Scientist in March 2024. She specializes in research into autoimmune inflammatory myopathies.

Wei Zhang was appointed an Arthritis Research Canada Research Scientist in October 2024. Her research focuses on the measurement and valuation of productivity loss, as well as the economic evaluation of health care interventions and health policy related to pharmaceuticals.

Scientific Awards

Cheryl Barnabe is the Principal Investigator on a two-year \$25,000 University of Calgary Cumming School of Medicine Clinical Research Fund (CRF) Grant entitled *“Implementation and Evaluation of Shared Decision-Making Strategies with Indigenous Peoples for Rheumatoid Arthritis Treatment”*.

May Choi was awarded a three-year \$375,000 The Arthritis Society Stars Career Development Award for her project *“CLIMB: Complement activation Levels and Interferon activity as novel Myositis Biomarkers”*.

Mary De Vera is the Principal Investigator on a one-year \$69,094 Canadian Institutes of Health Research Catalyst Grant that will analyse survey data from the Canadian Longitudinal Study of Aging (CLSA) for a study entitled “*Applying an equity and intersectionality lens to understanding the burden of arthritis on aging Canadians (APPROACH)*”. Co-Investigators include **Cheryl Barnabe**, **Antonio Avina-Zubieta**, Niloofar Gheshlaghi, **Mark Harrison**, Preet Kang, and **Megan Thomas**.

Marie Hudson is a Co-Applicant along with Anna Naumova and Carolyn Brown on a three-year \$376,610, Strategic Operating Grant from The Arthritis Society entitled “*X-inactivation in rheumatoid arthritis and impact on sex-specific disease risks*”. Celia Greenwood is the Principal Investigator. **Ines Colmegna**, Sasha Bernatsky, Kathleen Oros Klein and Liam O’Neil are Collaborators on the project.

Marie Hudson is the Principal Investigator on a three-year, \$450,000 Strategic Operating Grant from The Arthritis Society entitled “*Identification of immune signatures of rheumatic immune-related adverse events secondary to immune checkpoint inhibitors*”. Co-Investigators include **Sabrina Hoa**, Wilson Miller, Réjean Lapointe, Sonia Del Rincon and Khashayar Esfahani.

Linda Li is a Co-Principal Investigator and **Alison Hoens** is a Co-investigator on a one-year Canadian Institutes of Health Research-Institute of Musculoskeletal Health and Arthritis (CIHR-IMHA) Inclusive Research Excellence Prize – for the Patient Engagement category, entitled “*Listening to Patient Partners - From developing evidence-based tools for advancing meaningful patient engagement in research to now implementing them at an international organization for rheumatology research*”. Clayton Hamilton, a prior Arthritis Research Canada trainee, is the Nominated Principal Investigator and Peter Tugwell another PI. Other Co-investigators include Dorcas Beaton, Catherine Hofstetter, Lara Maxwell and APAB members **Annette McKinnon**, and **Shanon McQuitty**.

Linda Li is a Co-Principal Investigator along with Cindy Bartha and Liisa Galea on a one-year, \$100,000 Priority Announcement from the Institute of Aging of The Canadian Institutes of Health Research for her project grant entitled “*EPIC Health: Exercise in Perimenopause to Improve Cognitive Health*”. Teresa Liu-Ambrose is the Nominated Principal Investigator. Co-Investigators include Jennifer Davis, Louis Bherer, Joel Singer and others.

Linda Li is a Co-Investigator on a one-year \$70,000 Canadian Institutes of Health Research Catalyst Grant entitled “*Health or wealth? Socioeconomic status as a moderator of the associations between healthy activity behaviours and cognitive function*”. Teresa Liu-Ambrose is the Principal Investigator.

Linda Li is a Co-Principal Investigator with twelve others on a one-year \$1,380,000 Canadian Institutes of Health Research Operating Grant “*Strategy for Patient-Oriented*

Research (SPOR) Evidence Alliance, Canadian Institutes of Health Research (CIHR),: SPOR – Guidelines and Systematic Reviews”. Andrea Tricco is the Nominated Principal Applicant. There are over 50 Co-Investigators, Collaborators and Knowledge Users on the project.

Linda Li is a Co-Investigator with seven others on a five-years \$489,600 Canadian Institutes of Health Research Grant *“Implementation research to improve scale-up of the delivery of evidence-based community exercise programs for strokes”*.

Jackie Whittaker is Co-Principal Investigator with Lara Boyd on a one-year \$20,000 University of British Columbia Faculty of Medicine, Department of Physical Therapy Research Seed Grant for her project *“How does knee osteoarthritis alter the sensorimotor cortex”*. Master’s student **Chris Lamb** (Supervisor: **Jackie Whittaker**) is a Co-investigator.

Jackie Whittaker is the Principal Investigator on a three-year, \$450,000 Strategic Operating Grant from The Arthritis Society entitled *“Self-managing knee health in young people at high-risk of early-onset osteoarthritis: The MyKnee randomized controlled trial”*. **Linda Li, Hui Xie, Alison Hoens, Jennifer Davis, Amber Mosewich, Maxi Miciak** and **Ewa Roos** are Co-Investigators. **Trish Silvester-Lee** and **Angelina Ko** are Patient Collaborators on the project.

Jackie Whittaker is the Principal Investigator on two applications that received Priority Announcement Funding from the Canadian Institutes of Health Research (CIHR) in the amount of \$100,000 each, for one year, for her project entitled *“The Stop Osteoarthritis (SOAR) Hybrid Effectiveness-Implementation Type 1 Randomized Controlled Trial for Young People at-High-Risk of Early Onset Knee Osteoarthritis”*.

- The first priority announcement funding was from the Institute of Gender and Health + Sports Canada, for her Project Grant. Co-Investigators include Jennifer Davis, **Alison Hoens**, Michael Hunt, **Linda Li, Justin Losciale**, Maxi Miciak, Amber Mosewich, Ewa Roos, Adnan Sheikh, Linda Truong, David Wilson and **Hui Xie**. **Trish Silvester-Lee** is a patient collaborator.
- The second was from the Priority Announcement Funding for Female Athlete Health. Co-Investigators include **Linda Li**, Michael Hunt, David Wilson, Jennifer Davis, **Hui Xie, Linda Truong, Justin Losciale** and **Alison Hoens**.

Jackie Whittaker is a Co-Investigator on a one-year \$28,925 (NZLD) Health Delivery Research Application Grant from the Health Research Council of New Zealand entitled *“Community of practice co-creation of a life-span approach to managing ACL injury*. The Principal Investigator is Richard Ellis.

Hui Xie is the Principal Investigator on a five-year \$105,000 NSERC Discovery Grant entitled *“Knowledge Discovery Using Nonrandom Data Samples”*.

Wei Zhang is the Principal Investigator on a one-year \$70,000 Canadian Institutes of Health Research Catalyst Grant entitled *“Trajectories of work productivity loss: Working from home and insights during COVID-19”*. Co-Investigators include: Monique Gignac, Gary Johns, **Diane Lacaille** and Christopher McLeod. Lin Chen is a Collaborator.

Honours and Appointments

Antonio Avina-Zubieta was presented with the Charles L Christian award for significant advances in understanding lupus at the Lupus 21st Century Meeting in Naples Florida in September 2023. The award goes to an “investigator who has made significant advances in understanding the pathogenesis, impact, or treatment of lupus”.

Catherine Backman was awarded a 2023 Association of Rheumatology Professionals ARP Master award at the American College of Rheumatology meeting in November. The ARP Master Award is one of the highest honors the College bestows. This award is presented to ARP members who have made outstanding contributions to the field of rheumatology through service to the ACR/ARP and advancements in research, practice, education, and/or advocacy.

Megan Barber was awarded the 2023 Future Leader Award by the Alberta Medical Association Section of Rheumatology.

Susan Bartlett was the recipient of the 2024 AHPA Carolyn Thomas Award for an abstract entitled "Specific Symptom Clusters at Diagnosis Signal a Poorer Early RA Prognosis on Methotrexate Treatment: Results from The Canadian Early Arthritis Cohort". This work was also recognized as a podium presentation at the CRA meeting.

Ann Clarke was awarded the 2024 Distinguished Investigator Award at the CRA AHPA Annual Scientific meeting in February 2024. The award is in Recognition of a Distinguished Investigator who has made an outstanding contribution to rheumatology research internationally.

John Esdaile was awarded the 2024 Distinguished Rheumatologist Award at the CRA AHPA Annual Scientific meeting in February. This is the highest-ranking award provided by the Canadian Rheumatology Association. It is given to an accomplished Canadian Rheumatologist of high professional calibre, who has significantly furthered rheumatology in Canada.

Diane Lacaille was awarded the 2024 University of British Columbia Faculty of Medicine Distinguished Achievement Award for Advancement of Equity, Diversity and Inclusiveness in recognition of her contributions to the faculty in this area.

Diane Lacaille was awarded the 2024 University of British Columbia Department of Medicine Martin M. Hoffman Award for Excellence in Research. This honour is awarded to faculty members in recognition of outstanding research and scholarly contributions.

Jackie Whittaker was awarded the 2024 University of British Columbia Faculty of Medicine Distinguished Achievement Award for Overall Excellence – Mid-Career Recipients, in recognition of her research and scholarly contributions to the faculty.

Arthritis Research Canada Trainees Day and Scientific Retreat

May 1 – 3, 2024

In total 18 Researchers and 24 trainees from Halifax, Laval, Calgary and Vancouver attended the Annual Trainee Day and Scientific Retreat, with several more participating online. The Trainee's Day included an Arthritis Patient Advisory Board panel on "*Patient involvement in research*" with other workshops focused on obtaining research funding. **Linda Li** presented on "*Answering your 7 questions about grant writing*" and **Mary De Vera** facilitated an interactive workshop on "*All about peer review*".

May Choi kicked off the first day of the Retreat with her Keynote presentation "*AI-Powered Precision Medicine as an Approach to Autoimmune Diseases*". Other highlights were an interactive workshop with **Monika Szpunar** on "*Creating an infographic*" for disseminating research results, and the inaugural 'Three-Minute-Thesis' competition with **Chris Lamb** (Supervisor: **Jackie Whittaker**) receiving the audience favourite award for his 3MT presentation "*Brain sensorimotor changes associated with symptomatic knee osteoarthritis*".

The retreat closed with the Distinguished Guest Lecture by **Pauline Hadley-Beauregard** at the Friday luncheon, "*Leading with 'Why': Why brand matters*".

Signed:



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