

# 2022 Report Appendices

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## Appendix A – BJI Membership

BJI Faculty Member			Member Status	Faculty	BJI Research Themes
1.	Alcock	Greg	BJI Affiliate	Health Sciences	Clinical & health services
2.	Appleton	Tom	BJI Scientist	Schulich	Clinical & health services Basic biological & biomedical
3.	Armstrong	Souzan	BJI Affiliate	Schulich	Clinical & health services Basic biological & biomedical Physical sciences & engineering
4.	Athwal	George	BJI Scientist	Schulich	Clinical & health services Basic biological & biomedical Physical sciences & engineering
5.	Babatunde	Folarin	BJI Scientist	Health Sciences	Clinical & health services
6.	Bailey	Chris	BJI Scientist	Schulich	Clinical & health services Basic biological & biomedical
7.	Barra	Lillian	BJI Affiliate	Schulich	Basic biological & biomedical Clinical & health services
8.	Battié	Michele	BJI Scientist	Health Sciences	Basic biological & biomedical Population & community health
9.	Beier	Frank	BJI Scientist	Schulich	Basic biological & biomedical
10.	Berard	Roberta	BJI Affiliate	Schulich	Clinical & health services
11.	Birmingham	Trevor	BJI Scientist	Health Sciences	Clinical & health services Physical sciences & engineering
12.	Boyd	Tristan	BJI Scientist	Schulich	Clinical & health services
13.	Bryant	Dianne	BJI Scientist	Health Sciences	Clinical & health services Population & community health
14.	Burkhart	Timothy	BJI Affiliate	Engineering	Physical sciences & engineering Basic biological & biomedical
15.	Cairns	Ewa	BJI Affiliate	Schulich	Basic biological & biomedical
16.	Capretz	Mariam	BJI Affiliate	Engineering	Physical sciences & engineering
17.	Chesworth	Bert	BJI Scientist	Health Sciences	Clinical & health services
18.	Chidiac	Peter	BJI Affiliate	Schulich	Basic biological & biomedical
19.	Chronik	Blaine	BJI Affiliate	Science	Physical sciences & engineering
20.	Clemens	Kristin	BJI Scientist	Schulich	Clinical & health services Population & community health
21.	Connelly	Denise	BJI Affiliate	Health Sciences	Clinical & health services Population & community health
22.	Degen	Ryan	BJI Scientist	Schulich	Clinical & health services
23.	Demirkaya	Erkan	BJI Affiliate	Schulich	Basic biological & biomedical Clinical & health services
24.	Dickey	James	BJI Scientist	Health Sciences	Basic biological & biomedical Physical sciences & engineering
25.	Diop	Mamadou	BJI Scientist	Schulich	Basic biological & biomedical Physical sciences & engineering
26.	Doherty	Tim	BJI Scientist	Schulich	Clinical & health services Basic biological & biomedical Physical sciences & engineering
27.	Drangova	Maria	BJI Affiliate	Schulich	Basic biological & biomedical Physical sciences & engineering
28.	Faber	Kenneth	BJI Scientist	Schulich	Basic biological & biomedical Physical sciences & engineering Clinical & health services
29.	Fenster	Aaron	BJI Scientist	Schulich	Physical sciences & engineering Basic biological & biomedical Clinical & health services
30.	Ferreira	Louis	BJI Affiliate	Engineering	Basic biological & biomedical Physical sciences & engineering

BJI Faculty Member			Member Status	Faculty	BJI Research Themes
31.	Fischer	Lisa	BJI Affiliate	Health Sciences	Clinical & health services
32.	Fleet	Jamie	BJI Scientist	Schulich	Clinical & health services Population & community health
33.	Flynn	Lauren	BJI Scientist	Engineering	Basic biological & biomedical Physical sciences & engineering
34.	Forchech	Ntonghanwah	BJI Scientist	Health Sciences	Physical sciences & engineering Population & community health
35.	Foster	Paula	BJI Affiliate	Schulich	Basic biological & biomedical Physical sciences & engineering
36.	Getgood	Alan	BJI Scientist	Schulich	Clinical & health services Physical sciences & engineering
37.	Giffin	Robert	BJI Affiliate	Schulich	Clinical & health services
38.	Gillies	Elizabeth	BJI Scientist	Science	Physical sciences & engineering
39.	Gilliland	Jason	BJI Scientist	Social Science	Population & community health
40.	Goldberg	Harvey	BJI Affiliate	Schulich	Basic biological & biomedical
41.	Grewal	Ruby	BJI Affiliate	Schulich	Clinical & health services
42.	Grol	Matthew	BJI Affiliate	Schulich	Basic biological & biomedical
43.	Grolinger	Katarina	BJI Scientist	Engineering	Physical sciences & engineering
44.	Hamilton	Douglas	BJI Affiliate	Schulich	Basic biological & biomedical
45.	Hedberg	Yolanda	BJI Scientist	Science	Basic biological & biomedical Physical sciences & engineering
46.	Hess	David	BJI Affiliate	Schulich	Basic biological & biomedical Physical sciences & engineering
47.	Hoffman	Lisa	BJI Affiliate	Schulich	Basic biological & biomedical Physical sciences & engineering
48.	Holdsworth	David	BJI Scientist	Schulich	Basic biological & biomedical
49.	Hosein	Yara Kareen	BJI Affiliate	Engineering	Physical sciences & engineering Basic biological & biomedical Clinical & health services
50.	Howe	P. David	BJI Affiliate	Health Sciences	Clinical & health services Population & community health
51.	Hunter	Susan	BJI Scientist	Health Sciences	Clinical & health services
52.	Jenkins	Mary	BJI Affiliate	Schulich	Clinical & health services
53.	Jenkyn	Thomas	BJI Affiliate	Engineering	Physical sciences & engineering Clinical & health services
54.	Johnson	James	BJI Affiliate	Engineering	Physical sciences & engineering Clinical & health services
55.	Kadar	Assaf	BJI Scientist	Schulich	Physical sciences & engineering
56.	King	Graham	BJI Scientist	Schulich	Basic biological & biomedical Physical sciences & engineering Clinical & health services
57.	Knopf	George	BJI Scientist	Engineering	Physical sciences & engineering Basic biological & biomedical
58.	Laguné-Labarthe	François	BJI Affiliate	Science	Physical sciences & engineering
59.	Laird	Dale	BJI Affiliate	Schulich	Basic biological & biomedical
60.	Lalone	Emily	BJI Scientist	Engineering	Physical sciences & engineering Basic biological & biomedical
61.	Langohr	G Daniel	BJI Scientist	Engineering	Basic biological & biomedical Physical sciences & engineering
62.	Lanting	Brent	BJI Scientist	Schulich	Clinical & health services Physical sciences & engineering Population & community health
63.	Lawendy	Abdel	BJI Affiliate	Schulich	Clinical & health services

BJI Faculty Member			Member Status	Faculty	BJI Research Themes
64.	LeBel	Marie-Eve	BJI Affiliate	Schulich	Basic biological & biomedical Physical sciences & engineering Clinical & health services
65.	Leung	Andrew	BJI Scientist	Schulich	Clinical & health services
66.	Litchfield	Robert	BJI Affiliate	Schulich	Clinical & health services
67.	Lizotte	Daniel	BJI Scientist	Science	Physical sciences & engineering Population & community health
68.	MacDermid	Joy	BJI Scientist	Health Sciences	Clinical & health services Population & community health
69.	MacDonald	Steven	BJI Affiliate	Schulich	Clinical & health services
70.	MacLeod	Mark	BJI Affiliate	Schulich	Clinical & health services Population & community health
71.	Mao	Haojie	BJI Affiliate	Engineering	Basic biological & biomedical Physical sciences & engineering Clinical & health services
72.	Marsh	Greg	BJI Affiliate	Schulich	Basic biological & biomedical Physical sciences & engineering
73.	Marsh	Jacquelyn	BJI Scientist	Health Sciences	Clinical & health services Population & community health
74.	Melling	Jamie	BJI Affiliate	Health Sciences	Basic biological & biomedical
75.	Naish	Michael	BJI Affiliate	Engineering	Clinical & health services Physical sciences & engineering
76.	Naudie	Douglas	BJI Affiliate	Schulich	Clinical & health services
77.	Nelson	Andrew	BJI Scientist	Social Science	Basic biological & biomedical
78.	Ng	Geoffrey	BJI Scientist	Schulich	Basic biological & biomedical Physical sciences & engineering
79.	O'Gorman	David	BJI Scientist	Schulich	Basic biological & biomedical
80.	Pamukoff	Derek	BJI Scientist	Health Sciences	Clinical & health services
81.	Parikh	Paul	BJI Affiliate	Health Sciences	Clinical & health services
82.	Patel	Rajni	BJI Affiliate	Engineering	Physical sciences & engineering
83.	Paul	Arghya	BJI Scientist	Engineering	Basic biological & biomedical Physical sciences & engineering
84.	Payne	Michael	BJI Scientist	Schulich	Clinical & health services
85.	Penuela	Silvia	BJI Affiliate	Schulich	Basic biological & biomedical
86.	Peters	Sue	BJI Affiliate	Health Sciences	Clinical & health services Population & community health
87.	Petrella	Robert	BJI Affiliate	Schulich	Clinical & health services Population & community health
88.	Poepping	Tamie	BJI Affiliate	Schulich	Physical sciences & engineering
89.	Pope	Janet	BJI Affiliate	Schulich	Clinical & health services Basic biological & biomedical
90.	Price	Aaron	BJI Scientist	Engineering	Physical sciences & engineering
91.	Ramachandran	Rithwik	BJI Scientist	Schulich	Basic biological & biomedical
92.	Rasoulinejad	Parham	BJI Scientist	Schulich	Basic biological & biomedical Physical sciences & engineering Clinical & health services
93.	Rizkalla	Amin	BJI Affiliate	Schulich	Basic biological & biomedical Physical sciences & engineering
94.	Rushton	Alison	BJI Scientist	Health Sciences	Clinical & health services Population & community health
95.	Ryan	Bridget	BJI Affiliate	Schulich	Clinical & health services Population & community health
96.	Sadi	Jackie	BJI Affiliate	Health Sciences	Clinical & health services Basic biological & biomedical

BJI Faculty Member			Member Status	Faculty	BJI Research Themes
97.	Sanders	Dave	BJI Affiliate	Schulich	Clinical & health services Basic biological & biomedical
98.	Schemitsch	Emil	BJI Scientist	Schulich	Clinical & health services
99.	Séguin	Cheryle	BJI Scientist	Schulich	Basic biological & biomedical
100.	Seminowicz	David	BJI Scientist	Schulich	Basic biological & biomedical
101.	Singh	Supriya	BJI Scientist	Schulich	Clinical & health services Population & community health
102.	Stock	Jay	BJI Scientist	Social Science	Basic biological & biomedical Population & community health
103.	Suh	Nina	BJI Scientist	Schulich	Basic biological & biomedical Clinical & health services
104.	Tay	KengYow	BJI Affiliate	Schulich	Basic biological & biomedical Physical sciences & engineering Clinical & health services
105.	Teeter	Matthew	BJI Scientist	Schulich	Physical sciences & engineering Clinical & health services
106.	Thain	Jenny	BJI Affiliate	Schulich	Clinical & health services
107.	Thornton	Jane	BJI Scientist	Schulich	Clinical & health services
108.	Trejos	Ana Luisa	BJI Scientist	Engineering	Physical sciences & engineering
109.	Vasarhelyi	Edward	BJI Scientist	Schulich	Clinical & health services
110.	Unger	Janelle	BJI Scientist	Health Science	Clinical & health services Population & community health
111.	Viana	Richardo	BJI Scientist	Schulich	Clinical & health services
112.	Walton	Dave	BJI Scientist	Health Sciences	Clinical & health services
113.	Wang	David	BJI Affiliate	Schulich	Clinical & health services
114.	Waters-Rist	Andrea	BJI Affiliate	Social Science	Basic biological & biomedical
115.	Webster	Fiona	BJI Affiliate	Health Sciences	population & community health
116.	Willing	Ryan	BJI Scientist	Engineering	Basic biological & biomedical Physical sciences & engineering
117.	Willits	Kevin	BJI Affiliate	Schulich	Clinical & health services Population & community health
118.	Willmore	Katherine	BJI Affiliate	Schulich	Basic biological & biomedical
119.	Wolfe	Dalton	BJI Affiliate	Schulich	Clinical & health services
120.	Zdero	Radovan	BJI Affiliate	Engineering	Physical sciences & engineering Basic biological & biomedical

BJI CMHR Members			Faculty	Department	Career Stage
1.	Afzal	Basil	Schulich	Anatomy and Cell Biology	Master's
2.	Baha	Pardis	Health Sciences	Kinesiology	PhD
3.	Bashal	Jasika	Schulich	Physiology and Pharmacology	Master's
4.	Boudreau	Jacob Andrew	Health Sciences	Health & Rehab Sciences	Master's
5.	Broberg	Jordan Scott	Schulich	Medical Biophysics	PhD
6.	Brooks	Jeff	Engineering	Mechanical & Materials	Post-Doctoral
7.	Campbell	Maxwell	Engineering	Mechanical & Materials Eng	Master's
8.	Carranza	Victor Alexander	Engineering	Biomedical Engineering	Master's
9.	Cava	Dominique Sylvia	Health Sciences	Health & Rehab Sciences	PhD
10.	Codirezzi	Anastasia Maria	Engineering	Biomedical Engineering	Master's
11.	Cohen	Joshua William	Health Sciences	Kinesiology	PhD
12.	Cunningham	David	Engineering	Mechanical & Materials Eng	PhD
13.	Dabbagh	Armaghan	Health Sciences	Health & Rehab Sciences	PhD
14.	Del Sordo	Luigi Michael	Schulich	Physiology and Pharmacology	Master's

BJI CMHR Members			Faculty	Department	Career Stage
15.	Doughty	Callahan	Engineering	Biomedical Engineering	Master's
16.	Du Toit	Carla	Health Sciences	Kinesiology	Master's
17.	Fleet	Cole Thomas	Engineering	Mechanical & Materials Eng	Master's
18.	Fournier	Dale	Health Sciences	Health & Rehab Sciences	PhD
19.	Furtado	Rochelle	Health Sciences	Health & Rehab Sciences	PhD
20.	Galley	Alexandre	Engineering	Mechanical & Materials Eng	PhD
21.	Gillis	Connor Joseph	Engineering	Biomedical Engineering	PhD
22.	Grewal	Jasleen Kaur	Schulich	Physiology and Pharmacology	Master's
23.	Haddara	Raneem	Engineering	Mechanical & Materials	Post-Doctoral
24.	Hadzic	Ermina	Schulich	Physiology and Pharmacology	PhD
25.	Hart	Harvi	Health Sciences	Physical Therapy	Post-Doctoral
26.	Henning	Katherine Julia	Health Sciences	Health & Rehab Sciences	PhD
27.	Hext	Rebecca Allison	Schulich	Medical Biophysics	Master's
28.	Hijazi	Khaled Marwan Anis	Engineering	Biomedical Engineering	PhD
29.	Hitchon	Sydney Dianne	Engineering	Biomedical Engineering	Master's
30.	Hong	Gregory	Schulich	Medical Biophysics	PhD
31.	Huong	Lynn	Schulich	Physiology and Pharmacology	Master's
32.	Hutchinson	Jeffrey Lawrence	Schulich	Physiology and Pharmacology	PhD
33.	Hutter	Megan Danielle	Schulich	Medical Biophysics	Master's
34.	Inch	Katelyn Michelle	Health Sciences	Health & Rehab Sciences	Master's
35.	Ioussoufovitch	Seva	Engineering	Biomedical Engineering	PhD
36.	Jennings	Morgan	Health Sciences	Health & Rehab Sciences	PhD
37.	Kelenc	Lauren Marie	Health Sciences	Health & Rehab Sciences	Master's
38.	Kim	Yuri	Schulich	Physiology and Pharmacology	Master's
39.	Koudys	Zachary	Schulich	Medical Biophysics	Master's
40.	Kwan	Jan Chung	Engineering	Biomedical Engineering	Master's
41.	Lawan	Aliyu	Health Sciences	Health & Rehab Sciences	PhD
42.	Liubchak	Iryna	Engineering	Biomedical Engineering	Master's
43.	Lowndes	Ashley	Health Sciences	Health & Rehab Sciences	PhD
44.	Madou	Edward John	Health Sciences	Health & Rehab Sciences	PhD
45.	Magony	Richard Edward	Health Sciences	Kinesiology	PhD
46.	Marmura	Hana Susan Margaret	Health Sciences	Health & Rehab Sciences	PhD
47.	Meshkat	Melika	Schulich	Physiology and Pharmacology	Master's
48.	Millward	Christopher	Engineering	Biomedical Engineering	Master's
49.	Morassutti	Olivia Nicole	Health Sciences	Health & Rehab Sciences	Master's
50.	Mousa	Amr Abdullah Kamel	Schulich	Physiology and Pharmacology	PhD
51.	Mudathir	Randa	Schulich	Medical Biophysics	Master's
52.	Murcia	Maria Daniela	Engineering	Mechanical & Materials Eng	Master's
53.	Nikpour	Saman	Science	Chemistry	PhD
54.	Norman	Elizabeth Hazel	Engineering	Biomedical Engineering	PhD
55.	Paliani	Kylie Kiera	Engineering	Biomedical Engineering	Master's
56.	Philpott	Holly Theresa Ann	Health Sciences	Health & Rehab Sciences	PhD
57.	Pinto	Ryan Faust Anthony	Health Sciences	Health & Rehab Sciences	PhD
58.	Polus	Jennifer Sabah	Engineering	Biomedical Engineering	PhD
59.	Pouliopoulou	Dimitra Vasiliki	Health Sciences	Health & Rehab Sciences	PhD



BJI CMHR Members			Faculty	Department	Career Stage
60.	Primeau	Codie	Health Sciences	Health & Rehab Sciences	PhD
61.	Putos	Joe	Health Sciences	Health & Rehab Sciences	PhD
62.	Reischl	Stephanie	Health Sciences	Health & Rehab Sciences	PhD
63.	Roper	David	Engineering	Mechanical & Materials	Post-Doctoral
64.	Salinas	Sergio Alexander	Engineering	Electrical & Computer Eng	PhD
65.	Schulz	Jenna Malisa	Health Sciences	Health & Rehab Sciences	PhD
66.	Serack	Fiona Elizabeth	Engineering	Biomedical Engineering	PhD
67.	Shatila	Mohamad El Fateh	Engineering	Biomedical Engineering	Master's
68.	Spangenberg	Gregory William	Engineering	Mechanical & Materials Eng	PhD
69.	Taghizadeh	Sepideh	Schulich	Physiology and Pharmacology	PhD
70.	Taleb	Shahnaz	Engineering	Biomedical Engineering	PhD
71.	Tang	Justin	Schulich	Anatomy and Cell Biology	Master's
72.	Tavares	Cintya Jaqueline De Almeida	Engineering	Mechanical & Materials Eng	Master's
73.	Thomas	Anisha	Schulich	Physiology and Pharmacology	Master's
74.	Toor	Jaspreet Kaur	Schulich	Microbiology and Immunology	PhD
75.	Tosh	McKenna Rose	Engineering	Biomedical Engineering	Master's
76.	Tracey	Shaemus David	Engineering	Biomedical Engineering	Master's
77.	Vakili	Samira	Engineering	Biomedical Engineering	PhD
78.	Vincent	Joshua	Health Sciences	Health and Rehabilitation Sciences	Post-Doctoral
79.	Wakefield	Brent	Schulich	Anatomy and Cell Biology	PhD
80.	Wang	Fang Chi	Schulich	Physiology and Pharmacology	Master's
81.	Zhu	Songlin	Health Sciences	Kinesiology	Master's
82.	Ziebart	Christina	Health Sciences	Health & Rehabilitation Sciences	Clinician Sci. in Training
83.	information not listed per privacy request				

BJI CMHR Summer Students			Faculty	Career Stage
1.	Blyth	Lily	Wilfrid Laurier, Faculty of Health Science	Undergrad
2.	Bryant	Nicole	Schulich	Undergrad
3.	Chen	Qi Zhen (Clara)	Health Science	Undergrad
4.	Gao	Bob	Science	Undergrad
5.	Harley	Megan	Science	Undergrad
6.	Henein	Hannah	Science	Undergrad
7.	Johnson	Rachael	Schulich	Undergrad
8.	Kanji	Rehanna	Schulich	Undergrad
9.	Siroen	Andrea	McMaster, Faculty of Engineering	Undergrad
10.	Sodhi	Emily	Schulich	Undergrad
11.	Villeneuve	Jennifer	Engineering	Undergrad
12.	Yaremko	Hannah	Schulich	Undergrad

BJI Non-CMHR			Faculty	Department	Career Stage
1.	Ashmawy	Ahmed	Engineering	Biomedical	PhD
2.	Brown	Erinn	Schulich	Clinical Anatomy	Master's
3.	Donnelly	Emma	Engineering	Biomedical	Master's
4.	James	Amanda	Social Science	Anthropology	PhD
5.	Klubowicz	Dorota	Health Sciences	Physical Therapy	PhD
6.	Matheson	John	Schulich	Surgery	Post-doctoral

7.	Mehta	Swati	Health Sciences	Physical Medicine & Rehabilitation	PhD
8.	Mousa	Amr	Schulich	Physiology & Pharmacology	PhD
9.	Pecyna	Angela	Schulich	Anatomy & Cell Biology	Master's
10.	Singh	Gagandeep	Schulich	Microbiology	Undergrad
11.	Toor	Jaspreet	Schulich	Microbiology & Immunology	Master's
12.	Vakili	Samira	Engineering	Biomedical Engineering	PhD
13.	Valladares	Katya	Social Science	Anthropology	Master's
14.	Yuan	Xunhua	Schulich	Medical Biophysics	Post-doctoral

Partners & Collaborators			Faculty or Affiliation	Member Status
1.	Armstrong	Souzan	Executive Director - WORLDdiscoveries	BJI Partner
2.	Barrett	David	Director – Ivey International Centre for Health Innovation	BJI Partner
3.	Bevan	Sian	Chief Science Officer - Arthritis Society	BJI Partner
4.	Bingham	Clifton	Johns Hopkins Arthritis Centre	BJI Partner
5.	Birmingham	Trevor	Fowler Kennedy Sports Medicine Clinic	BJI Partner
6.	Boyle	Jennifer	Patient Representative 77 Huntley Street Unit 312, Toronto ON M4Y 2P3	BJI Partner
7.	Boyle	Dianne	Empower Health Research Inc	BJI Partner
8.	Burkhart	Timothy	Past BJI Member	BJI Partner
9.	Campeau-Lecours	Alexandre	CIRRIS - Center for Interdisciplinary Research in Rehabilitation and Social Integration - Université Laval	BJI Partner
10.	Capretz	Miriam	Associate Dean - Faculty of Engineering	BJI Partner
11.	Cechetto	Lisa	Executive Director - RDS	BJI Partner
12.	Chala	Mulugeta Bayisa	University of Toronto	BJI Partner
13.	Coderre	John	Patient Representative	BJI Partner
14.	Cole	Kelly	Vice-President (University Advancement)	BJI Partner
15.	Coley	Ken	Dean - Faculty of Engineering	BJI Partner
16.	Davison	Matt	Dean - Faculty of Science	BJI Partner
17.	Dixon	Jeffrey	Retired BJI member	BJI Partner
18.	Ekowa	Prince	Patient Representative	BJI Partner
19.	Finegan	Joan	Dean (Acting) - Faculty of Social Science	BJI Partner
20.	Garland	S. Jayne	Dean - Faculty of Health Sciences	BJI Partner
21.	Garvin	Gregory	Retired BJI member	BJI Partner
22.	Hankenson	Kurt	External Researcher – University of Michigan	BJI Partner
23.	Harney	Nick	(Aug 2021) Dean of Social Science	BJI Partner
24.	Hill	David	London Health Sciences Centre, St. Joseph's Health Care London, Lawson	BJI Partner
25.	Hofstetter	Cathie	Patient Representative 432 Victoria Park Ave., Toronto	BJI Partner
26.	Hosein	Yara	ADEISS - Advanced Medical & Dental 3D Metal Printing Solutions	BJI Partner
27.	Hurtig	Mark	External Researcher – University of Guelph	BJI Partner
28.	James	Dana	Vice-President (University Advancement) Acting	BJI Partner
29.	Keddy	Douglas	Communications and Public Affairs	BJI Partner
30.	Kloseck	Marita	Retired BJI member	BJI Partner
31.	Litchfield	David	Robarts Research Institute	BJI Partner
32.	Lyddiatt	Anne	Patient Representative	BJI Partner
33.	MacDermid	Joy	Roth McFarlane Hand and Upper Limb Centre	BJI Partner
34.	MacDonald	Steve	London Health Sciences Centre, Ortho Surgery	BJI Partner
35.	Medley	John	Researcher - U Waterloo	BJI Partner
36.	Medley	John	External Researcher - University of Waterloo	BJI Partner
37.	Miller	Linda	Vice-Provost (Graduate and Post-doctoral Studies)	BJI Partner
38.	O'Hagan	Jeff	(April 1) VP University Advancement	BJI Partner
39.	Ochotny	Noelle	External Research Writer	BJI Partner
40.	Orchard	Carole	Retired BJI member	BJI Partner



Partners & Collaborators			Faculty or Affiliation	Member Status
41.	Ponzno	Matteo	University of Waterloo (Research Staff)	BJI Partner
42.	Peters	Terry	Retired BJI member	BJI Partner
43.	Rayman	Reiza	External Clinician and Entrepreneur	BJI Partner
44.	Richards	Carl	External Researcher - McMaster University	BJI Partner
45.	Rigg	Lesley	Vice-President (Research)	BJI Partner
46.	Rodrigues	Isabel	External Researcher/Clinician Scientist - Univ of Waterloo	BJI Partner
47.	Rorabeck	Cecil	External - Retired Orthopaedic Surgeon	BJI Partner
48.	Séguin	Cheryle	Ontario Institute for Regenerative Medicine	BJI Partner
49.	Sims	Stephen	Retired BJI member	BJI Partner
50.	Stephenson	Amy	Consumer Representative	BJI Partner
51.	Stephenson	Amy	Consumer Representative	BJI Partner
52.	Szekeres	Mike	External Researcher	BJI Partner
53.	Tenn	Neil	External Dentist	BJI Partner
54.	Thompson	Terry	Retired BJI member	BJI Partner
55.	Weiler	Jeff	Western Neuroscience Institute	BJI Partner
56.	Yoo	John	Dean - Schulich School of Medicine & Dentistry	BJI Partner

Affiliated Staff			Faculty/Department	Member Status
1.	Beach	Ryan	Schulich / Physiology & Pharmacology	Staff
2.	Bellia	Matthew	Schulich/Medical Biophysics	Staff
3.	Bryce	Dawn-Marie	Schulich / Physiology & Pharmacology	Staff
4.	Chrones	Tom	Schulich / Anatomy & Cell Biology	Staff
5.	Dabbagh	Armaghan	Health Sciences / Health & Rehab Science	Staff
6.	Dupuis	Holly	Schulich / Physiology & Pharmacology	Staff
7.	Farzad	Maryam	Health Sciences / Physical Therapy	Staff
8.	Ivanov	Todor	Schulich / Surgery	Staff
9.	Katsivo	Melanie	RD&S International Research Officer / Assoc Director - Programs & Partnerships - The Africa Institute, Western University	Staff
10.	Kieffer	Lucy	National Centre for Audiology	Staff
11.	Mundy	Samantha	Western Research / Bone and Joint Institute	Staff
12.	Paquette-Warren	Jann	Western Research / Bone and Joint Institute	Staff
13.	Sachani	Saqib	WorldDiscoveries	Staff
14.	Saremi	Parnian	Health Sciences/Physical Therapy	Staff
15.	Saunders	Sheri	Schulich / Physiology & Pharmacology	Staff
16.	Tavares	Cintya	Engineering/Mechanical & Materials	Staff
17.	Thiago	Vivacqua	Schulich / Medicine	Staff
18.	Urquhart	Jennifer	Schulich / Surgery	Staff
19.	Woodhouse	Shannon	Western Research / Bone and Joint Institute	Staff
20.	Xu	Yidan	Engineering / Mechanical & Materials	Staff

## New Member Recruitment

11 new members joined in 2022. The BJI culture continues to support recruitment of MSK experts.



Dr. Folarin Babatunde, a physical therapist, teacher and researcher joined Western in 2022 as an Assistant Professor in the School of Physical Therapy at Western University. Dr. Babtunde was a member of the CIHR Joint Motion Program (the predecessor to Bone and Joint). We are thrilled to have him rejoin us in a clinical research capacity. His projects address clinical questions related to reducing pain and disability with digital health solutions targeting psychosocial issues in MSK health. Currently, Professor Babatunde is the International Clinical Placement Lead and Evidence Informed Teaching and Knowledge Translation lead at the School of Physical Therapy at Western.



Dr. Kristin Clemens joined the BJI in 2022. An Assistant Professor in the Department of Medicine and Epidemiology and Biostatistics, an Adjunct Scientist at ICES Scientist, and an Associate Scientist at Lawson Health Research Institute, Dr Clemens brings an important voice to the membership. Her areas of research foci aligning with the Institute include Health Services and Quality of Care.



Dr. Jamie Fleet returned to Western in 2021 as a Clinician Researcher and Assistant Professor in Physical medicine and Rehabilitation. She joined the BJI Membership this year. Her work in stroke rehabilitation, drug safety, exercise and health promotion along with fall prevention, pain management and using ICES data align her well with many opportunities and collaborations within the BJI.



Dr. Ntonghanwah Forcheh joined the BJI membership when arriving at Western in 2022 as an Assistant Professor in Physical Therapy. With a background in statistics, his research looks at socio-demographic indicators in health science research.



Dr. Assaf Kadar, a Hand and Upper Limb clinical fellow at the Roth McFarlane Hand & Upper Limb Centre, also holds an Assistant Professorship in the Division of Orthopaedic Surgery. Dr. Kadar come to London, the University and the BJI in 2022. His research focuses on Flexor tendon surgery innovation; biomechanics of hand & wrist; CMC arthritis and arthroplasty.



Dr. Daniel Lizotte is an associate Professor in the Department of Computer Science as well as Epidemiology & Biostatistics, joins the institute in 2022 as a member of our Research Advisory Committee. Dr. Lizotte's primary research interests include medical health informatics, machine learning and clinical decision support.



Dr. Arghya Paul accepted his invitation to BJI membership in 2022. An Associate Professor in Chemical and Biochemical Engineering and Chemistry, Dr. Paul's research focuses tissue regeneration, regenerative medicine, and wound healing applications.



As the William and Lynne Gray Research Chair in Mobility and Activity, Dr. Siobhan Schabrun was welcomed to the BJI in 2022. Her research focussing on understanding, treating, and preventing persistent pain for those living with MSK conditions. Dr. Schabrun is passionate about improving translation of research evidence in practice.



Dr. David Seminowicz become a member of the Bone and Joint institute after joining Department of Medical Biophysics as a Professor in 2022. His research focuses on pain research in populations with chronic low back pain, migraine and burning mouth syndrome.



Dr. Supriya Singh accepted a nomination to the BJI Research Advisory Committee in 2022. An Assistant Professor in the Department of Surgery, she aligns with BJI research in the areas of pain and spine.



Dr. Janelle Unger is a physiotherapist and researcher focused on the impacts of neurological impairment on mobility and activity. Her research program promotes lifelong mobility for these individuals. She uses instrumented techniques to measure gait and balance and interventions aimed at improving strength and function in order to provide the foundation for safe mobility.

## Appendix B – Prestigious Awards

Research Chairs	Endowed/Industry Chairs
<p><b>Western Research Chair</b></p> <ul style="list-style-type: none"> <li>▪ <b>Michele Crites Battié</b> –MSK Exercise Mobility and Health</li> </ul> <p><b>CRC Tier 1</b></p> <ul style="list-style-type: none"> <li>▪ <b>Frank Beier</b> - Musculoskeletal Research</li> <li>▪ <b>Trevor Birmingham</b> - Musculoskeletal Rehabilitation</li> <li>▪ <b>Dale Laird</b> – Gap Junctions and Disease</li> <li>▪ <b>Elizabeth (Beth) Gillies</b> - Polymeric Biomaterials</li> <li>▪ <b>Mikko Karttunen</b> - Materials and Biomaterials Science</li> <li>▪ <b>Joy MacDermid</b> –MSK Health Outcomes and Knowledge Translation</li> <li>▪ <b>Rajnikant Pate</b> –Advanced Robotics and Control</li> <li>▪ <b>Kevin Shoemaker</b> –Integrative Physiology of Exercise &amp; Health</li> </ul> <p><b>CRC Tier 2</b></p> <ul style="list-style-type: none"> <li>▪ <b>Matthew Grol</b> - Musculoskeletal Biology &amp; Health</li> <li>▪ <b>Yolanda Hedberg</b> –Corrosion Science</li> <li>▪ <b>Francois Lagugne Labarthe</b> - Nanomaterials ad Photonics</li> <li>▪ <b>Haojie Mao</b> - Head Mechanics</li> <li>▪ <b>Arghya Paul</b> - Advanced Cell-Instructive Materials &amp; Biotherapeutics</li> <li>▪ <b>Jane Thornton</b> - Injury Prevention and Physical Activity for Health</li> <li>▪ <b>Ana Luisa Trejos</b> - Wearable Mechatronics</li> </ul> <p><b>Tri Council</b></p> <ul style="list-style-type: none"> <li>▪ <b>Joy MacDermid</b> – Gender in Measurement &amp; Rehab of MSK Work Disability</li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>Siobhan Schabrun</b> - William and Lynne Gray Research Chair in Mobility &amp; Activity (2022)</li> <li>▪ <b>Blaine Chronik</b> – IRC in Magnetic Resonance Systems Development</li> <li>▪ <b>David Holdsworth</b> – Dr. Sandy Kirkley Chair in MSK Research</li> <li>▪ <b>James Johnson</b> – Graham King Musculoskeletal Research Chair (2017–22)</li> <li>▪ <b>Joy MacDermid</b> – James Roth Research Chair in MSK Measurement &amp; Knowledge Translation</li> <li>▪ <b>Steven MacDonald</b> – J.C. Kennedy Chair in Orthopaedic Surgery (2014-19)</li> <li>▪ <b>Emil Schemitsch</b> – Richard Ivey Chair of the Department of Surgery</li> </ul> <p><b>Canadian College of Physicists in Medicine</b></p> <ul style="list-style-type: none"> <li>▪ <b>Aaron Fenster</b> – Medical Biophysics</li> <li>▪ <b>Terry Peters</b> – Medical Biophysics</li> </ul> <p><b>Faculty Scholars Award</b></p> <ul style="list-style-type: none"> <li>▪ <b>Trevor Birmingham</b> – Health Sciences (2011-13)</li> <li>▪ <b>Lauren Flynn</b> – Chemical &amp; Biochemical Engineering (2019)</li> <li>▪ <b>Elizabeth Gillies</b> – Chemical &amp; Biochemical Engineering (2016-18)</li> <li>▪ <b>Jason Gilliland</b> – Department of Geography (2012-2014)</li> <li>▪ <b>Dale Laird</b> – Anatomy and Cell Biology</li> <li>▪ <b>Kevin Shoemaker</b> – Health Sciences (2007-08, 2008-09)</li> <li>▪ <b>Dave Walton</b> – Physical Therapy (2017)</li> <li>▪ <b>Cheryle Séguin</b> - Physiology &amp; Pharmacology (2020)</li> <li>▪ <b>Susan Hunter</b> - Physical Therapy (2022)</li> </ul>
<p><b>RSC College for New Scholars, Artists &amp; Scientists</b></p> <ul style="list-style-type: none"> <li>▪ <b>Lauren Flynn</b> - Chemical &amp; Biochemical Engineering / Anatomy &amp; Cell Biology (2019)</li> <li>▪ <b>Elizabeth Gillies</b> - Chemistry (2018)</li> </ul> <p><b>Vice Provost (Academic Programs) Award for Excellence in Collaborative Training</b></p> <ul style="list-style-type: none"> <li>▪ <b>Cheryle Seguin &amp; Trevor Birmingham</b> - Bone and Joint Institute (2022)</li> </ul>	<p><b>Canadian Academy of Health Sciences Fellows</b></p> <ul style="list-style-type: none"> <li>▪ <b>Aaron Fenster</b> – Medical Biophysics</li> <li>▪ <b>Jayne Garland</b> - Rehabilitation Sciences</li> <li>▪ <b>Dale Laird</b> – Anatomy and Cell Biology</li> <li>▪ <b>Joy MacDermid</b> – Physical Therapy</li> <li>▪ <b>Terry Peters</b> – Medical Biophysics</li> <li>▪ <b>Janet Pope</b> - Medicine</li> <li>▪ <b>Emil Schemitsch</b> - Medicine</li> <li>▪ <b>Kevin Shoemaker</b> – Kinesiology</li> </ul>
<p><b>Distinguished University Professor Awards</b></p> <ul style="list-style-type: none"> <li>▪ <b>S. Jeffrey Dixon</b> – Professor, Department of Physiology and Pharmacology (2015)</li> <li>▪ <b>Dale Laird</b> – Professor, Anatomy &amp; Cell Biology (2018)</li> <li>▪ <b>Joy MacDermid</b> - Physical Therapy (2020)</li> <li>▪ <b>Rajini Patel</b> – Professor, Department of Electrical &amp; Computer Engineering (2005)</li> <li>▪ <b>Kevin Shoemaker</b> – Professor, School of Kinesiology (2016)</li> </ul>	<p><b>Royal Society of Canada Fellows</b></p> <ul style="list-style-type: none"> <li>▪ <b>Joy MacDermid</b> – Physical Therapy</li> <li>▪ <b>Rajnikant Patel</b> – Electrical &amp; Computer Engineering</li> <li>▪ <b>Terry Peters</b> – Medical Biophysics</li> <li>▪ <b>Aaron Fenster</b> – Medical Biophysics</li> </ul> <p><b>National Award</b></p> <ul style="list-style-type: none"> <li>▪ <b>Elizabeth Gillies</b> – NSERC E.W.R. Steacie Memorial Fellowship (2017)</li> </ul>

## Appendix C – BJI 2022 Think Tank Series

Leader	Title & Description
Home Faculty	
Joy MacDermid Health Sciences	Mobility Improvements through Social and Technological Innovations in Canada (MISTIC-MSK)
2 formal meetings 11 participants 5 formal sub-group meetings 12 participants 3 institutions	<p><b>Summary</b> – Since 2019, leaders from Western University's Bone &amp; Joint Institute (BJI), the University of Calgary's McCaig Institute, and Dalhousie University have come together to establish the MSK Research Collaborative. This collaboration brings together a growing community of interdisciplinary researchers and partners to advance our understanding of osteoarthritis progression. The primary objective of this ThinkTank is to leverage a national cohort to support research projects and explore the application of new technologies, such as remote therapies/devices, health services, and community supports. Throughout 2022, the BJI hosted and facilitated seven productive meetings, attended by participants from Western, Calgary, and Dalhousie. The leadership team comprises representatives from all three institutions, community groups, various disciplines, and individuals at different career stages. <b>Impact</b> – In 2022, the team secured significant funding of \$1 million over a span of four years from the Western Innovation Factory initiative. Additionally, they submitted a Letter of Intent (LOI) for the NFRF-transformation competition in January 2022. Although the LOI was unsuccessful, the team utilized feedback from reviewers to enhance their application and resubmitted it as a CIHR THINC (Transforming Health with Integrated Care) grant proposal in November 2022.</p>
Michele Crites Battié /Dave Walton /Ali Rushton Health Sciences	Spine ThinkTank: Common Spine Disorders - Phenotyping
2 formal meetings 16 participants 1 formal sub-group meeting 6 participants	<p><b>Summary</b> – Building upon their work since 2019, a team of 16 experts has been dedicated to engaging city-wide experts and developing projects that enhance personalized medicine while establishing best practices. Their focus lies in improving clinical care efficiencies and patient outcomes specifically for individuals with non-specific back/neck pain. To achieve this, the team aims to develop the necessary tools and gather relevant information. <b>Impact</b> – The Think Tank leader has actively facilitated consultations with clinical department leaders and patient advisors to explore shared interests, identify opportunities, and determine the infrastructure required to support this initiative. The addition of new team members, who possess firsthand experience with existing spine-related registries, has significantly contributed to the sub-group efforts in developing a new spine rehab registry with a comprehensive core data set. The team conducted extensive literature searches to gather information on existing domains and core data set definitions, focusing on biological and psychosocial factors. Furthermore, they extensively collaborated with patient partners throughout the process. As a result, the team successfully launched a new spine rehab registry platform named “SPINA”, which has secured five years of financial support from Western Research. This registry is now housed within the Faculty of Health Sciences.</p>

Leader	Title & Description
Home Faculty	
Emil Schemitsch /David Holdsworth Schulich/Schulich	<p>Infection ThinkTank: Tackling Orthopaedic Infections</p> <p><b>Summary</b> – This expanding Think Tank team of 30 people continued to build on their efforts on three inter-related themes: understanding orthopaedic device infections; detection and diagnosis of infection; treatment to eradicate pathogens and retain implants. The ThinkTank meetings engaged new collaborators from the surgical team at LHSC and members of the Department of Immunology &amp; Microbiology / ImPaKt Centre, as well as imaging and bioengineering scientists. Team leaders recognized that their 2020 CFI Innovation Fund application was reviewed by the same panel as the CFI application submitted by the Biomaterials ThinkTank. A decision was made for members of the Biomaterials group to join the Infection ThinkTank and submit a “joint effort” CFI Innovation Fund application. <b>Impact</b> – A \$7.5 million CFI Innovation Fund grant was submitted in July 2022 along with the associated Ontario Research Fund Large Infrastructure grant in August 2022. Results are anticipated to be announced in June 2023. This team also received ~\$1 million in funding from various sources (CFI JELF, Ontario Research Fund, NSERC RTI) to obtain an OMNILUX Optical Coordinate Measuring Machine to scan failed orthopaedic implants. A subgroup within this ThinkTank submitted a CIHR Project Grant application in Fall 2022 on corrosion and clinical outcomes of hip arthroplasty revision surgeries. Another subgroup began preparing an application for the Spring 2023 CIHR competition on antibiotic coatings on orthopaedic implants to treat infections.</p>
11 formal meetings 30 participants	
Elizabeth Gillies Science	Improving Treatment with MSK Biomaterials
No formal meetings	<p><b>Summary</b> – Several members of this team join the Orthopaedic Infection ThinkTank in 2022 and the Biomaterials Think Tank was formally retired in early 2023. A subgroup on biomaterials for drug delivery and regenerative medicine remains active and is operating independently of the formal Think Tank group.</p>

## Appendix D – BJI Catalyst Grants Awards, New & In Progress

2019 – Spring Competition Awardees		<p><b>Funding Period:</b> September 1, 2019 to November 30, 2021</p> <p>Mid- term Showcase Deadline: February 2021</p> <p>Final Showcase Deadline: November 2021</p>
Teams	Home Faculty	Title
Birmingham, Trevor	Health Sciences	<p><b>Setting Expectations to Increase Satisfactory Outcomes After TKR: A Pilot RCT</b> – Unmet expectations contribute to dissatisfaction after total knee replacement. Based on wearable sensor data from a preoperative functional test, we will inform patients of their predicted functional gains from TKR. We will also determine if measuring joint inflammation improves the outcome prediction accuracy. Data will support grant applications for a definitive randomized trial to assess whether the technology cost-effectively improves satisfaction. <i>(Extended to 2024).</i></p>
Dianne Bryant	Health Sciences	
Bert Chesworth	Health Sciences	
Joy MacDermid	Health Sciences	
Brent Lanting	Schulich	
Jackie Marsh	Health Sciences	
Matthew Teeter*	Schulich	



2019 – Spring Competition Awardees		Funding Period: September 1, 2019 to November 30, 2021
		Mid- term Showcase Deadline: February 2021
		Final Showcase Deadline: November 2021
Teams	Home Faculty	Title
Degen, Ryan*	Schulich	<b>Current trends in hip arthroscopy utilization and long-term cost-efficacy</b> - This study will evaluate current trends in hip arthroscopy utilization, focusing on 40- to 60-year-old patients. There is evidence to suggest higher failure rates and conversion to total hip replacement in this population. Therefore, we aim to report on procedural trends, post-operative resource use and re-operation rates. This data will be used to establish a model to predict long-term cost efficacy. <i>Final report pending.</i>
Jackie Marsh	Health Sciences	
Blayne Welk	Schulich	
Gillies, Elizabeth*	Science	<b>Intra-articular delivery of PPARdelta inhibitors for the treatment of OA</b> - Osteoarthritis (OA) is a progressive disease involving the breakdown of joint tissues. Despite its high prevalence, there are currently no medications that slow or halt the progression of OA. This project evaluated a new potential disease-modifying drug for OA. <b>Impact:</b> This grant allowed the team to perform an in vivo study in rats to evaluate the "efficacy of intra-articular delivery of a PPAR-delta inhibitor in a thermo-responsive hydrogel for the treatment/prevention of post-traumatic osteoarthritis". The rat study is complete, but the processing of the tissue and data are still ongoing. The team published a review paper in Biomedical Materials and an original research article is in preparation. The team also obtained a 1-year (\$100K) CIHR project grant (priority announcement), which complemented the BJI Catalyst grant for performing the study. If the results are favourable, the team plans to seek further external funding and industry partnerships.
Tom Appleton	Schulich	
Frank Beier	Schulich	
Seguin, Cheryle*	Schulich	<b>Investigating the effect of anabolic steroids on the intervertebral disc</b> - The proposed research describes a mechanistic study to follow up on clinical observations of increased intervertebral disc height in suspected users of anabolic steroids. This perhaps unintended biological effect may serve as a potential disease-modified treatment for disc degeneration and associated back pain. <i>Final report pending.</i>
David Holdsworth	Schulich	
Andrew Leung	Schulich	
Shoemaker, Kevin*	Health Sciences	<b>Bone blood flow in humans: impact of venous occlusion and hand osteoarthritis</b> - Accumulating data support a role for vascular pathology in joint disease with emphases on venous congestion and/or vascular disease. However, very little is known about bone blood flow (BBF) in humans. We will adapt dynamic contrast-enhanced computed tomography to quantify BBF in healthy individuals or those with vascular disease at baseline and following venous occlusion. <i>Final report pending.</i>
Tom Appleton	Schulich	
Emily Lalone	Engineering	
Ting-Yim Lee	Schulich	



Teams	Home Faculty	Title & Description
Stock, Jay*	Social Science	<p><b>Design and validation of a portable cone-beam <math>\mu</math>CT scanner</b> - A significant decrease in bone quality occurred over the past 10,000 years, in response to major shifts in human diet and activity. <b>Impact:</b> We successfully designed a new High-resolution portable CT scanner to investigate the internal bone quality of humans worldwide, at different times in the past, to understand why humans have low bone mass. We used funds from the catalyst grant to 1.) design and fabricate a calibration phantom; 2.) calculate of the shielding requirements of the unit; 3.) develop a user interface for the system; and 4.) test a prototype of the scanner with quality assurance phantoms and test devices to determine noise, uniformity, spatial resolution. Thus far we have presented preliminary results of our work at a virtual symposium Imaging Network Ontario symposium. Work is ongoing and we are completing testing of the scanner on archaeological material. (<i>Extended to 2024</i>)</p>
Holdsworth, David	Schulich	
Nelson, Andrew	Social Science	
O'Gorman, David*	Schulich	<p><b>Detecting periprosthetic joint infection in mimetics by mass spectrometry</b> - While infections of artificial 'prosthetic' joints are rare, they are devastating for the patients who suffer them. We will use our human cell-based laboratory models of artificial joint infections to determine if a technique called mass spectrometry can distinguish "uninfected" from "infected" joint tissues. If successful, it may be possible to translate this technology to the operating room. (<i>Extended to 2023</i>)</p>
Holdsworth, David	Schulich	
Athwal, George	Schulich	
Faber, Kenneth	Schulich	
Lalone, Emily*	Engineering	<p><b>Development of a total wrist arthroplasty system to improve patient outcome</b> - End stage wrist arthritis is often treated surgically using wrist 'fusion' to improve pain. This, however, significantly reduces range of motion and therefore wrist function. Alternatively, total wrist arthroplasty which replaces the wrist joint with an articulating implant; however, current designs cause numerous problems. The objective of this work was to develop a load sensing wrist implant. <b>Impact:</b> A modular TWA implant system was developed that incorporated the ability to measure joint load and permit the interchange of articular components. In-vitro cadaveric testing was also completed on 8 upper limbs comparing the kinematics of the intact wrist to total wrist arthroplasty (TWA) reconstructed wrists using both a standard anatomic novel reverse implant configuration. This work so far has been presented at one conference and has been submitted to a second. The team has three manuscripts in preparation (to be submitted to the Journal of Hand Surgery) and expect to have at least two more conference publications resulting from this work.</p>
Langohr, Daniel	Engineering	
Suh, Nina	Schulich	
King, Graham	Schulich	

2019 – Fall Competition Awardees		<b>Funding Period:</b> April 1, 2020 to June 30, 2022 Introductory Showcase Deadline: Oct 2020 Mid- term Showcase Deadline: June 2021 Final Showcase Deadline: June 2022
Teams	Home Faculty	Title & Description
Hunter, Susan*	Health Sciences	<b>Imagined and real walking effects in people with lower extremity amputation</b> - Every year in Canada about 7,500 people lose a limb, the leg is the most common. Learning to walk with a prosthesis requires intensive rehabilitation. Imagined walking activates the same brain areas as real walking. In this study, brain imaging technology was used to evaluate brain activity during real and imagined walking in people with leg amputation. <b>Impact:</b> During imagined walking, the team found stronger brain activation in people with amputations compared to controls. An original research article is currently under review at Frontiers of Human Neuroscience (revisions requested). A productive partnership was established between Parkwood Institute and Robarts Research Institute. An international collaboration was also established with Dr. Aysha Motala (The University of Stirling) who has provided invaluable expertise with fMRI. Work in this area remains ongoing and in the long term, the team plans to develop a novel rehabilitation program using motor imagery in people with lower limb amputation.
Payne, Michael	Schulich	
Viana, Ricardo	Schulich	
Bartha, Robert	Schulich	

2020 – Fall Competition Awardees		<b>Funding Period:</b> April 1, 2021 to March 31, 2023 Introductory Showcase Deadline: Oct 2021 Final Showcase Deadline: March 2023
Teams	Home Faculty	Title
Appleton, Tom*	Schulich	<b>Biological mechanisms of biomechanically-induced pain in knee OA</b> - Pain during some types of physical activity is the cardinal symptom of knee osteoarthritis (OA). Although the biological mechanisms activated by painful physical activity are likely to be critical treatment targets, very little is known. This new collaboration will integrate gait biomechanics and biology of inflammation research to discover why OA makes our knees hurt when we “walk this way”.
Birmingham, Trevor	Health Sciences	
Walton, David	Health Sciences	
MacDermid, Joy	Health Sciences	
Battié, Michele*	Health Sciences	<b>Quantitative MRI protocols for Assessing Intervertebral Disc Degeneration</b> - Back pain and related disability are a major burden on affected individuals, their families and societies, worldwide. Intervertebral disc degeneration is suspected as an underlying culprit. Yet widely available measures of disc degeneration are grossly inadequate, hampering related research. Our group aims to develop, assess, and standardize advanced quantitative MRI sequences to fill this need.
Drangova, Maria	Schulich	
Holdsworth, David	Schulich	
Junmin, Liu	Schulich	
Hwang, Jiawei	External Partner	
Laura Gibbons	External Partner	

2020 – Fall Competition Awardees		Funding Period: April 1, 2021 to March 31, 2023
		Introductory Showcase Deadline: Oct 2021
		Final Showcase Deadline: March 2023
Teams	Home Faculty	Title
Walton, David*	Health Sciences	<b>Psychometric analysis of a new Western Breast Interference Scale</b> - Breast reduction surgery has been indicated for women with macromastia and comorbid spinal pain for several years, though the evidence base to support its effectiveness is notably sparse. We have created a new patient reported outcome scale for breast-related interference to be used in research in women with spinal pain. Reliability, validity, and usability will be evaluated in this project.
Dickey, James	Health Sciences	
MacDermid, Joy	Health Sciences	
Marignani, Marilena	Clinician Partner	
Klubowica, Dorota	Trainee	
Nilam, Zikra	Trainee	

\* = nominated applicant/main contact person

2021 – Spring Competition Awardees		Funding Period: August 6, 2021 to July 31, 2023
		Introductory Showcase Deadline: May 2021
		Final Showcase Deadline: August 2023
Teams	Home Faculty	Title
Fenster, Aaron*	Schulich	<b>Development and Testing of a 3D Ultrasound System for Imaging of Wrist OA</b> - Two-dimensional ultrasound (2DUS) is used as a diagnostic method for musculoskeletal structures but it has limitations. We propose to overcome the limitations of 2DUS and develop and test a 3DUS system to efficiently measure the tissue volumes of the hand/wrist synovium that would provide a definitive tool for diagnosing various pathologies found in the wrist without the need to use MRI.
Lalone, Emily	Engineering	
Appleton, Tom	Schulich	
Suh, Nina	Schulich	
Holdsworth, David*	Schulich	<b>Low-cost remote telemetry system for activity and gait monitoring</b> - When researchers develop new treatments for bone and joint conditions it is sometimes difficult to be sure how well the treatment is working. This is because it can be challenging to obtain accurate reports of an individual's activity level before, during, and after therapy. We propose to develop a low-cost device that can be worn at home to record accurate records of daily activities. Extended through to 2024.
Birmingham, Trevor	Health Sciences	
Willing, Ryan	Engineering	
Teeter, Mathew	Schulich	

\* = nominated applicant/main contact person

2021 – Fall Competition Awardees		Funding Period: April 1, 2022 to March 31, 2024
		Introductory Showcase Deadline: October 2022
		Final Showcase Deadline: March 2024
Teams	Home Faculty	Title
Birmingham, Trevor*	Health Sciences	<b>Initial steps toward a sham controlled Zelen design randomized trial of instrumented bracing for knee OA</b> - Knee bracing is a treatment for osteoarthritis that shifts load away from the most affected area of the knee during walking. However, evidence of brace effectiveness is limited. To prepare for a future large sham-controlled study, we will conduct a pilot study to compare the biomechanical effects of a true and sham unloader knee brace, both outfitted with wearable sensors to monitor brace use.
Hart, Harvi		
Holdsworth, David	Health Sciences	
Bryant, Dianne	Schulich	
Appleton, Tom	Health Sciences	
MacDermid, Joy	Schulich	
Giffin, Robert	Health Sciences	
	Schulich	
Pamukoff, Derek*	Health Sciences	<b>Cartilage composition assessment using ultrasound for knee osteoarthritis</b> - Early knee osteoarthritis (OA) involves cartilage damage that may occur prior to symptoms. Magnetic resonance imaging (MRI) measures cartilage but is costly and inaccessible. Ultrasound is an inexpensive and accessible, but it is unclear if it measures cartilage features. The objective is to evaluate if ultrasound similarly measures cartilage features compared with MRI.
Birmingham, Trevor	Schulich	
Fenster, Aaron	Collaborator	
Atkinson, Hayden	Health Sciences	
Bryant, Dianne	Schulich	
Appleton, Tom		

\* = nominated applicant/main contact person

## Appendix E– Strategic Funding Program

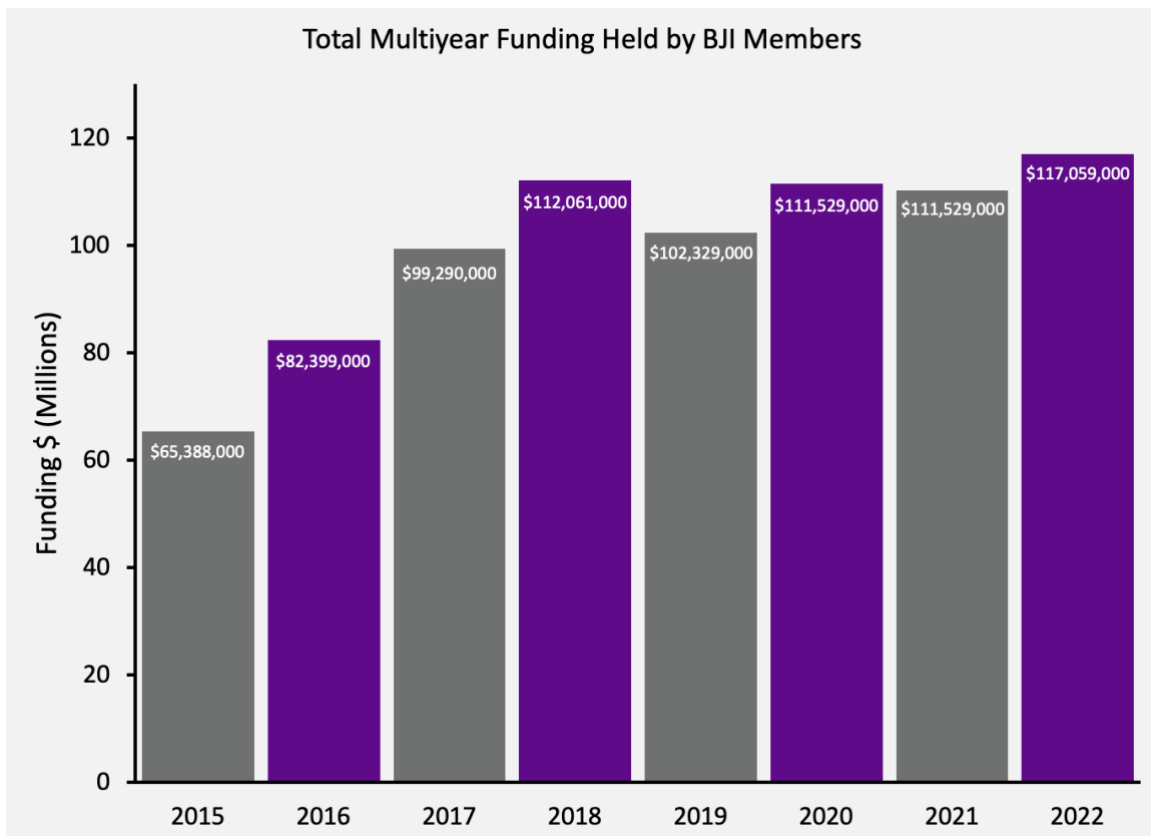
2022 Awardees		Funding Period: Dec 1, 2022 to Nov 30 2023
		Final Report Due: Mar 1 2024
Teams	Home Faculty	Title & Description
Ana Luisa Trejos*	Engineering	<b>Improving biosignal data interpretation for wearable rehabilitation robots</b> - The effectiveness of rehabilitation robots depends on their ability to interpret the user’s biosignals, but these are altered by health, social, and behavioural factors that have never been considered. Building on prior work, this project aims to develop transdisciplinary methods to improve biosignal data interpretation such that these individual factors are considered.
Katarina Grolinger	Engineering	
George Knopf	Engineering	
Marie-Eve LeBel	Schulich	
Dave Walton	Health Sciences	
Richard Booth	Health Sciences	

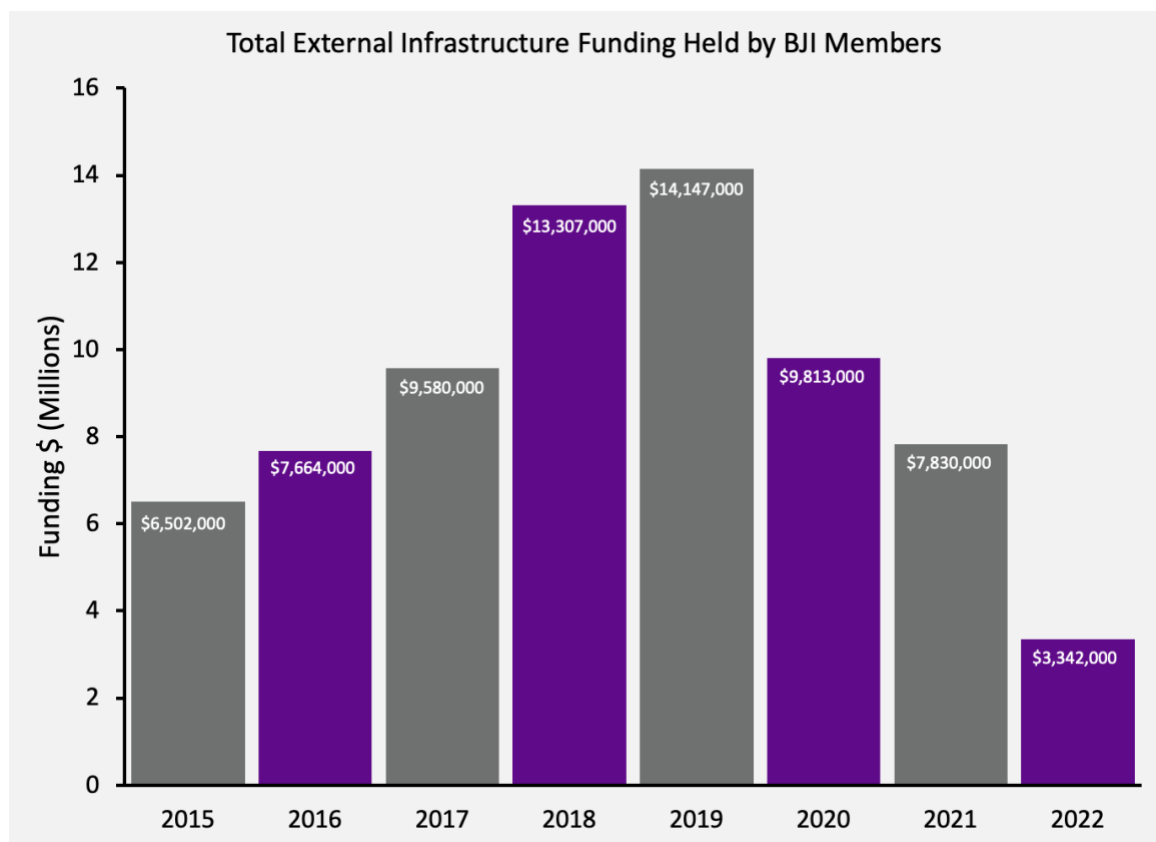
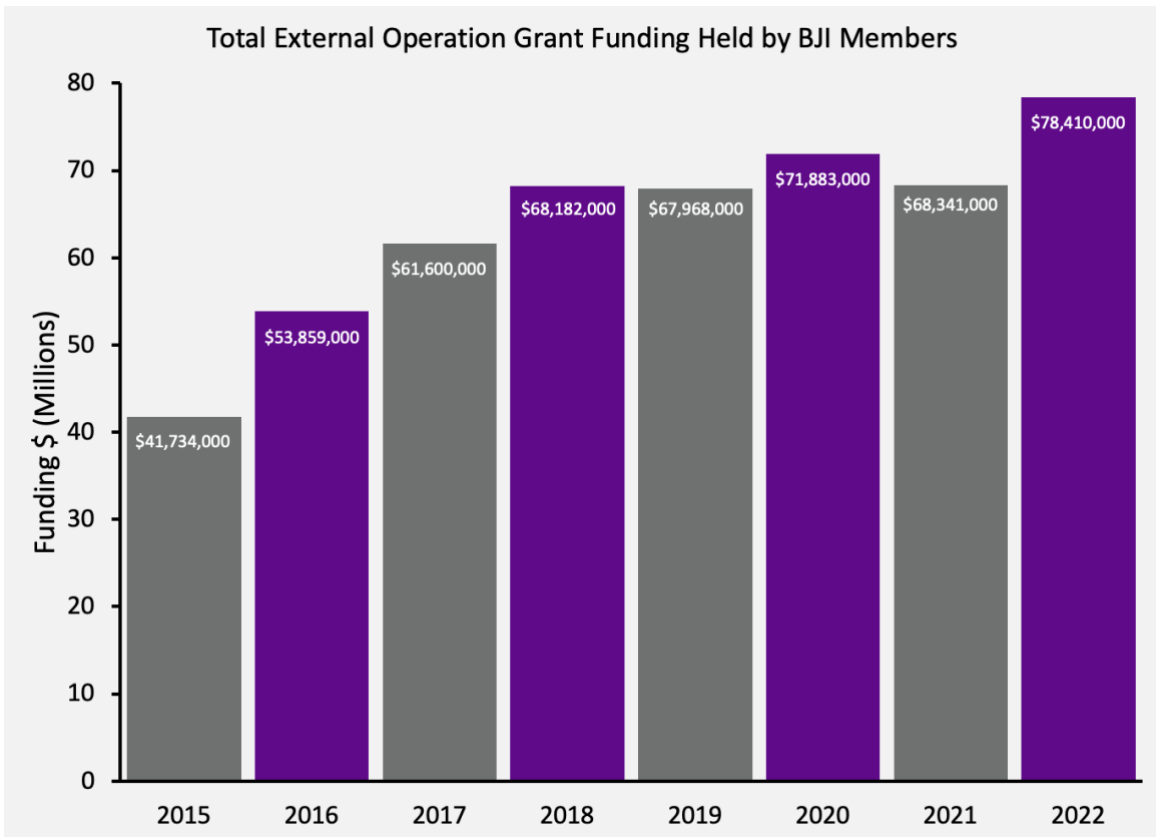
\* = nominated applicant/main contact person

## Appendix F – Research Funding

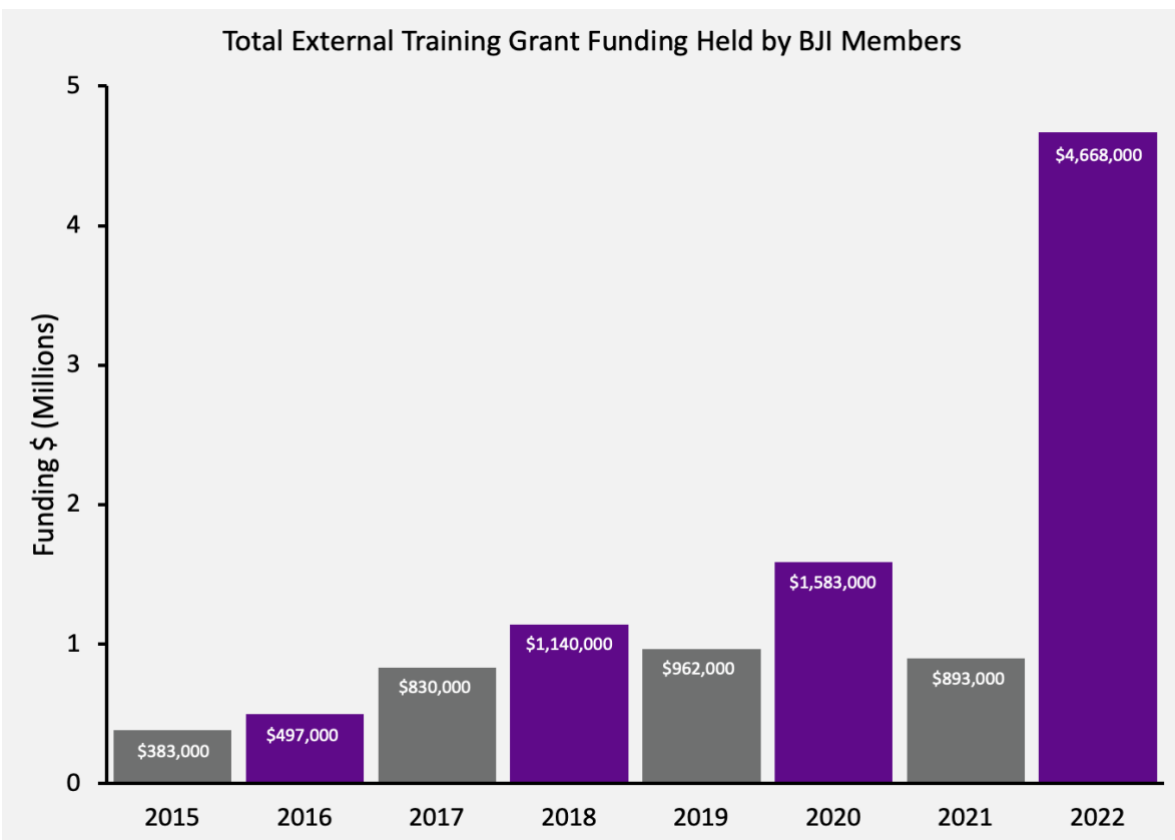
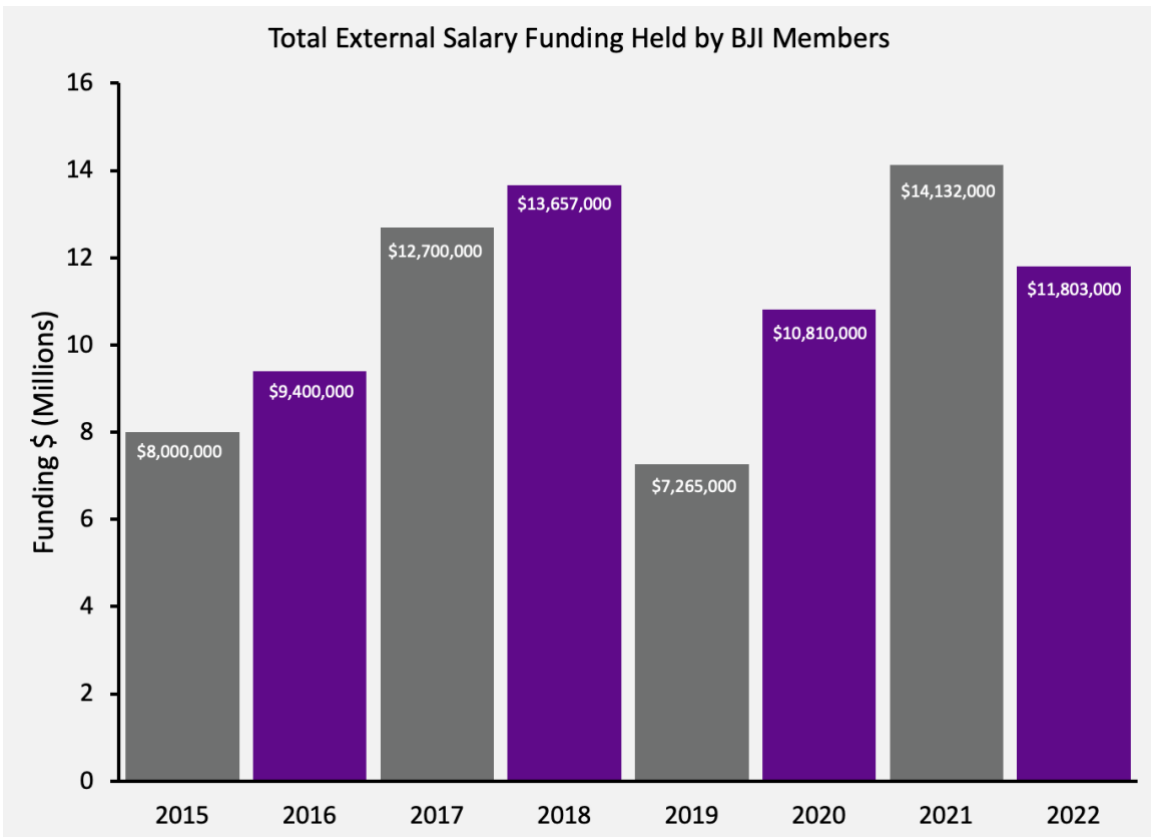
Grant Type	Number of Grants	Total Amount*
External Salary	18	\$11,803,000
External Operating	301	\$78,410,000
External Infrastructure	43	\$3,342,000
External Training	44	\$4,668,000
<b>External Grant Sub-Total</b>	<b>406</b>	<b>\$98,223,000</b>
Internal Salary	4	\$80,000
Internal Operating	227	\$16,529,000
Internal Infrastructure	0	\$0
Internal Training	107	\$2,228,000
<b>Internal Grant Sub-Total</b>	<b>338</b>	<b>\$18,836,000</b>
<b>TOTAL</b>	<b>744</b>	<b>\$117,059,000</b>

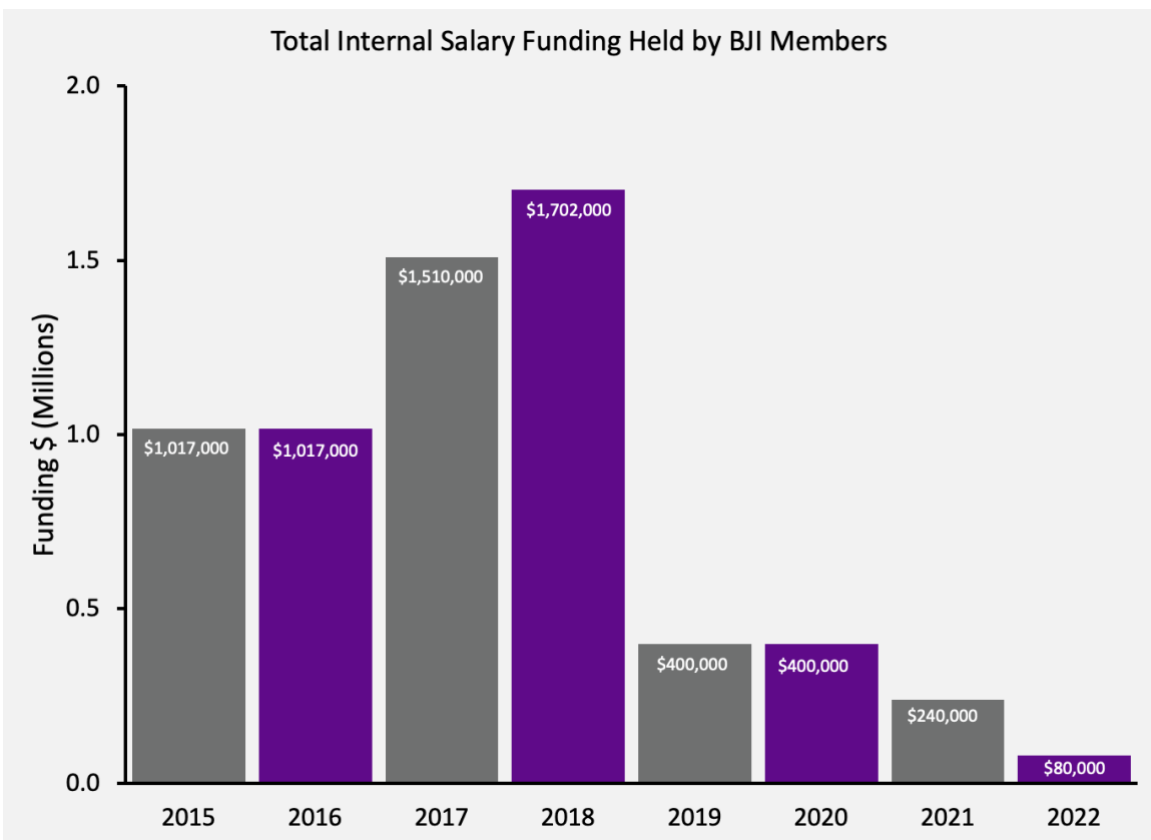
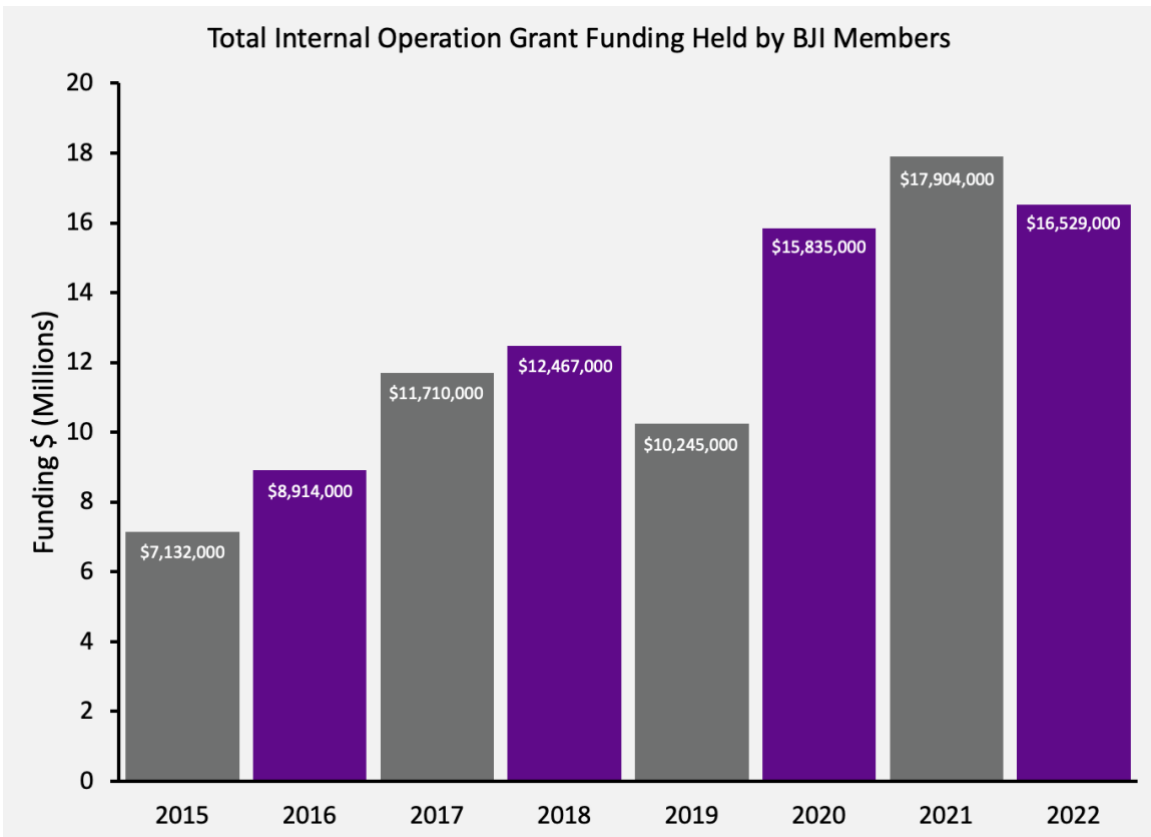
\* Multiyear funding total rounded to nearest thousand

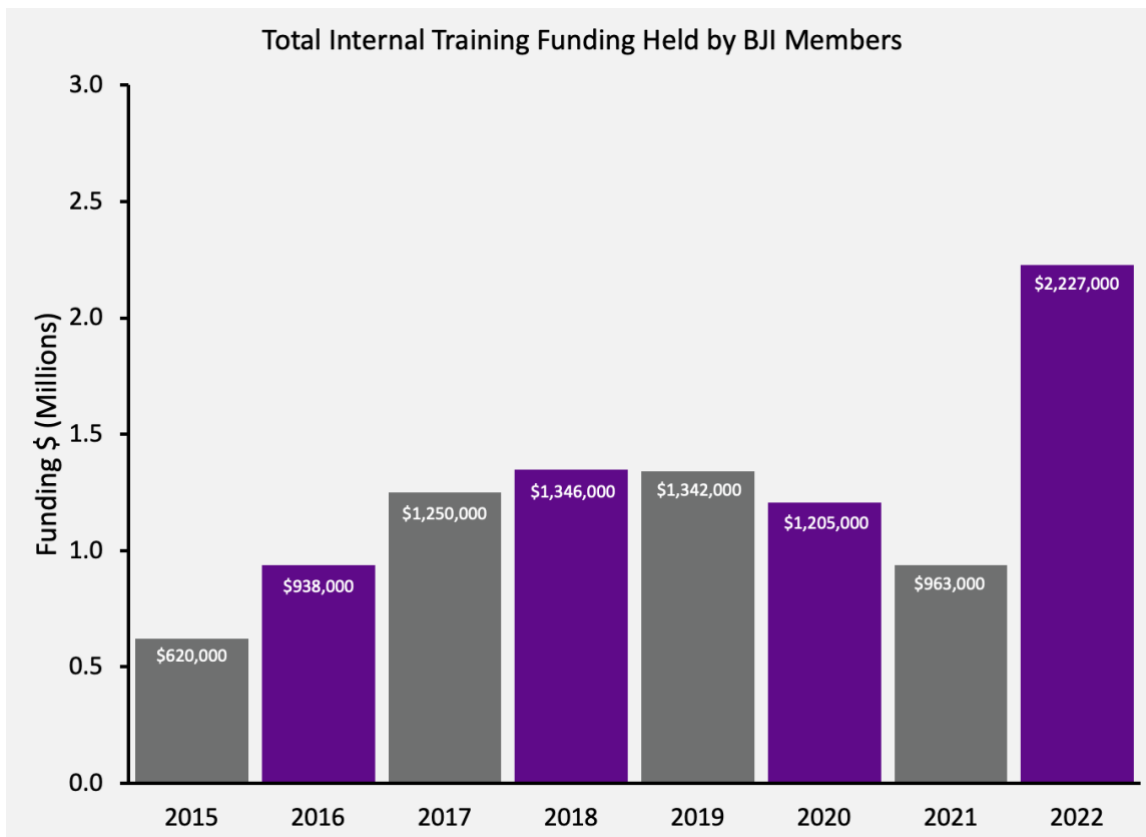












## Appendix G – 2022 Showcase Series

### 2022– Showcase Events

Date	Title & Speakers
Nov 18	Dr. Peter Chidac “Regulation of PTH1 receptor signaling in osteoblasts” Dr. Derek Pamukoff “Ultrasound Imaging for Knee Cartilage Composition ”
Oct 25	Western Communication [Professional Development] "Editorial Strategy & Media Relations at Western"
Sept 15	Dr. Aaron Fenster "Development and Testing of a 3D Ultrasound System for Imaging of Wrist OA” Dan Langohr "Development of a Total Wrist Arthroplasty System to Improve Patient Outcome”
May 19	Dr. Dave Walton “Elective breast surgery as an opportunity for causal exploration of spinal pain in women” Ms. Jen Polous "Setting Expectations to Increase Satisfactory Outcomes after Knee Replacement: SENSOR RCT"
Mar 22	Dr. Gustavo Duque "Osteosarcopenia: A Geriatric Giant of the XXI Century"
Mar 10	Dr. Ryan Degen "Current trends in hip arthroscopy utilization and long-term cost-efficacy” Dr. Cheryl Seguin "Investigating the effect of anabolic steroids on the intervertebral disc”
Feb 25	Dr. Alison Rushton "Precision intervention for spinal pain" Dr. David Holdsworth “Frugal Biomedical Innovations”
Jan 18	Ms. Miriam Hayward - Western Research "Integration of KT and EDI Principals

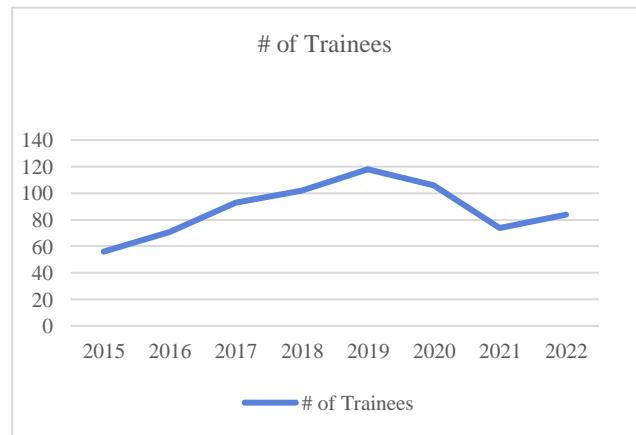
## Appendix H – Collaborative Specialization in Musculoskeletal Health Research (CMHR)

BJI’s mission to catalyze transdisciplinary training and education is accomplished primarily through Western’s Collaborative Specialization in Musculoskeletal Health Research (CMHR; <https://cmhr.uwo.ca>) - a flagship program for the Institute. The CMHR, BJI, and our administrative staff work with a team of educators with diverse expertise within Western’s 15 participating graduate programs and the Ivey Business School. Collaboration in education, research training and mentorship are central to the CMHR, realized through two central foci: an innovative transdisciplinary core program curriculum, and collaborative research carried out by trainees within the program. A key challenge that must be overcome to address complex chronic MSK disorders is the integration of distinct, yet complementary fields of study and, as such, the development of trainees with a basic competency across multiple fields. The CMHR was developed to address this important need.

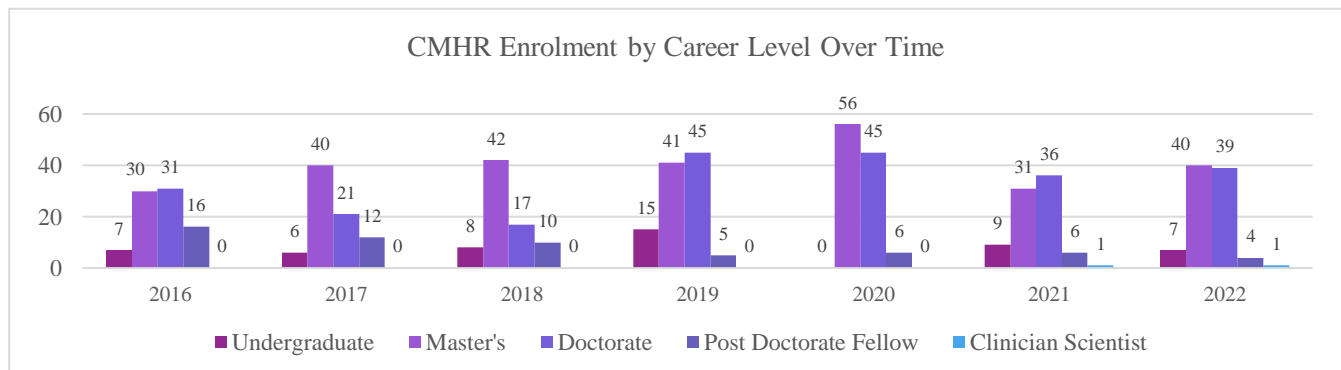
The accomplishments of CMHR and its impacts on the training landscape at Western were acknowledged in 2022 by the Vice-Provost Award for Excellence in Collaborative Teaching ([Western News - Western honours this year’s most outstanding educators \(westernu.ca\)](#)). This award recognizes instructors whose exemplary collaborations in university teaching enhance student learning – and the CMHR was lauded for “showcasing interdisciplinary teaching excellence on an institutional and national level”.

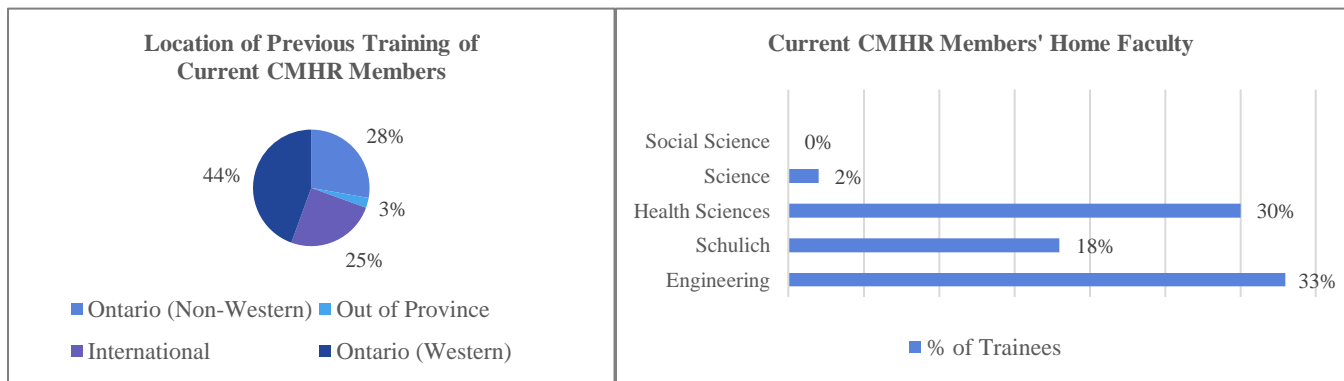
### Enrolment & Mentorship

26 graduate students and 3 postdoctoral fellows were admitted to CMHR in September 2022. This intake, along with 12 graduating trainees, brought program enrolment to 84 trainees at the end of 2022. Importantly, more than 50% of trainees are at the PhD or postdoctoral level. The graphics provided show the number, career levels and location of previous training of trainees enrolled in the program over time. The continued high level of trainee enrolment has made CMHR the largest of Western’s Collaborative Specializations. In 2022 the program executed a new MOU with the graduate program in Anthropology, welcoming its 15<sup>th</sup> participating graduate program.



For a list detailing all of the Western graduate programs participating in the program, please visit our website at: [https://cmhr.uwo.ca/Program%20Overview/participating\\_programs.html](https://cmhr.uwo.ca/Program%20Overview/participating_programs.html). A full list of the mentors currently participating in the collaborative program is also available on our website at: <https://cmhr.uwo.ca/mentors/index.html>.





## MSK Courses, Learning Modules & Other Events

CMHR offers two graduate courses that are mandatory for program completion: MSK 9000 – Musculoskeletal Health Research A / Biomedical & Bioengineering Concepts (managed by Dr. Cheryle Séguin), and MSK 9100 – Musculoskeletal Health Research B / Fundamental Concepts in Clinical & Health Services Research (managed by Dr. Trevor Birmingham).

For a more detailed description of the courses including topics and presenters, please visit: [https://cmhr.uwo.ca/current\\_trainees/course\\_work.html](https://cmhr.uwo.ca/current_trainees/course_work.html)). These courses were designed to provide graduate students working in the area of MSK research a foundational knowledge of the core concepts and components across the breadth of research areas in biomedical to clinical research areas. These courses were delivered by 24 instructors from 10 Departments/Schools across 4 Faculties at Western, as well as experts from multiple additional Ontario Universities.

In the 2022 Winter term, 13 graduate students enrolled in a hybrid in-person and online version of MSK9100. Students participated in a series of interactive sessions led by BJI clinician scientists with expertise in osteoarthritis (Dr. Tom Appleton), rheumatoid arthritis (Dr. Lillian Barra), osteoporosis (Dr. Jenny Thain), knowledge translation (Dr. Joy MacDermid), and measurement of pain and disability (Dr. David Walton). The course continued its focus on quantitative and qualitative research methods in MSK health (e.g., imaging, biomechanics, clinical epidemiology, health economics), with lectures delivered by BJI members and collaborators external to Western, Dr. Monica Maly (University of Waterloo) and Dr. Tim Burkhart (University of Toronto). The course included a hands-on session in the Wolf Orthopaedic Biomechanics Lab where students completed assessments of MSK ultrasound, isokinetic strength, 3D motion capture, and performance-based outcome measures. The course culminated with three team debates focused on timely, controversial topics in MSK health research.

In September 2022, MSK9000 returned to completely in-person course delivery with an enrolment of 20 new students. In addition to the fundamental concepts covered by its curriculum, the course emphasises skill development, including scientific writing for a lay audience with modified assignments including peer-review feedback, twitter-style communication, and small group debate presentations emphasizing critical evaluation of scientific literature in basic biomedical research. New content was developed this year in the area of regenerative medicine, focused on biologics and gene therapy for MSK diseases (developed and delivered by Dr. Matt Grol). With the removal of COVID restrictions, the course was able to offer hands on lab experiences including a Molecular biology and Histology lab (hosted by Dr. Matt Grol) and a Bioarcheology lab (hosted by Dr. Andrew Nelson).

## Ivey Learning Modules

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MSK Ivey Modules were developed in consultation with the BJI CMHR Trainee Leadership Committee to reflect the interests of trainees within the program. Four case-based, interactive workshops are offered to trainees each academic year ([https://boneandjoint.uwo.ca/events/msk\\_ivey\\_modules.html](https://boneandjoint.uwo.ca/events/msk_ivey_modules.html))

The following were offered between Jan-Dec 2022:

- Negotiating Effectively in a Virtual Environment (Dr. Fernando Olivera, Feb 9, 2022)
- Establishing and Sustaining High Functioning Teams (Dr. David Loree, March 9, 2022)
- Cost Accounting (Dr. Mary Gillett, Oct 26, 2022)
- Leadership in Research (Dr. Lucas Monzani, Nov 23, 2022)

The modules were well attended (25-40 students each session), and evaluation responses revealed positive views with respect to content relevance, delivery of the information, and the learning environment provided by the speaker. These modules presented diverse content within the context of health care management, entrepreneurship, and leadership in the context of the healthcare and research enterprise. In their evaluation of program components, the Ivey learning modules were consistently identified by CMHR trainees as highly valuable.

## Undergraduate Summer Program

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The BJI and CMHR partnered to host a thriving program in the summer of 2022 enrolling 23 undergraduate students contributing to MSK research in BJI labs across campus. With its allotted budget of \$18,000, the CMHR co-funded (with supervisors, external awards, etc) 6 of these undergraduate students to support experiential learning in MSK research laboratories. In 2022, the BJI was also allotted 2 USRI awards from Western Research, increasing the number of trainees supported. Our 8 funded trainees contributed to research in the Faculties of Engineering, Health Sciences, and the Schulich School of Medicine & Dentistry. In addition to supporting undergraduate research through its awards program, the CMHR hosts an open “Summer School” program that seeks to bring together undergraduate students working in any field of MSK research, designed to foster transdisciplinary research, support skill development and provide insight into career opportunities in research. The 2022 CMHR Summer School program included a 5-part series delivered by CMHR graduate students, postdoctoral fellows, and faculty for undergraduate research students. Sessions included instructional workshops on how to read scientific literature from diverse academic fields, effective communication in the context of knowledge translation, the role of innovation in research, and insights into graduate school and career opportunities post-graduation. This program culminated in a final Research Symposia during which 20 trainees shared their research experiences using the 3 Minute Thesis format, covering transdisciplinary research projects spanning molecular investigation of MSK disease pathogenesis using preclinical models, the development of novel imaging modalities, to novel tools for rehabilitation and surgery. A full description of the undergraduate summer program, including goals, awards, and requirements is available at [https://cmhr.uwo.ca/prospective\\_trainees/Summer%20Undergraduate%20Program.html](https://cmhr.uwo.ca/prospective_trainees/Summer%20Undergraduate%20Program.html).

## Bone and Joint Transdisciplinary Awards

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In September 2022, the Bone and Joint Institute continued its prioritized investment in the next generation of MSK researchers and trainee-led research by awarding \$175,000 in funding through its *Bone and Joint Transdisciplinary Awards Program* (<https://cmhr.uwo.ca/Awards/index.html>). These funds supported the transdisciplinary research being carried out by 8 MSc students, 9 PhD students, and 3 postdoctoral fellows in BJI laboratories. Of these awards, 11 were given to new incoming CMHR trainees and 9 were given to trainees previously enrolled in the program (3 as new awards, 6 as renewals to single-year awards received in the previous funding competition). This remarkable level of support was enabled by the



success of our trainees and our ability to leverage single year CMHR funding to support trainee success for external awards. Of the total 20 trainees whose research was supported by the Bone and Joint Transdisciplinary Awards Program, 3 were in the Faculty of Engineering (\$30,000 BJI investment), 10 were in the Schulich School of Medicine and Dentistry (\$90,000 BJI investment), 6 were in the Faculty of Health Sciences (\$45,000 BJI investment), and 1 was in the Faculty of Science (\$10,000 BJI investment).

### CMHR External Awards

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In 2022, 40% of CMHR trainees were supported by competitive external awards totaling \$1.1M. Most of these award values reflect a single year of funding from multi-year awards. There were 33 separate awards in 2022 (10 OGS awards, 8 CIHR graduate and Postdoctoral awards, 2 NSERC graduate awards, 4 PhD awards from disease foundations such as the Arthritis Society, 2 from local foundations, and 7 from MITACS Inc.). These awards are in addition to contributions made by BJI mentors to a number of NSERC CREATE programs that bring in funding for training (i.e. CONNECT! Program in Soft Connective Tissue Regeneration, and NSERC CREATE for Excellence in Canadian Corrosion education). These national training platforms further support our training environment by directly funding trainees or training initiatives.

### Trainee-led Outreach Initiatives

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The Trainee Leadership Committee of CMHR/BJI was created to engage trainees and enable initiatives prioritized by trainees. These support academic and research success, foster community engagement and promote BJI research. Activities during this reporting period include:

- Windermere on the Mount - Retiring with Strong Minds - April 2022
  - Trainees presented to the Retirement home about their MSK research.
- Science Rendezvous May 21, 2022 (2,000 attendees)
  - Trainees set up a booth to promote MSK/BJI research to youth through demos and hands on craft activities.
- Knowledge Translation Webinar - June 10<sup>th</sup> 2022
  - University of Toronto RehabInk student-led journal had speakers presenting to CMHR trainees about using social media to disseminate research and using knowledge translation platforms across the various disciplines.
- Citation workshop for trainees - July 12 and 19<sup>th</sup> 2022
  - Western Libraries presented to CMHR trainees about using citation workshop managers across the various disciplines.
- Children's Museum - Halloween event - October 26<sup>th</sup>, 2022 (300 attendees)
  - Trainees set up a booth to promote MSK/BJI research to youth.

## 2022 Canadian Bone and Joint Conference (CBJC) Evaluation Report

The virtual biennial 2022 CBJC successfully hosted by Western's Bone and Joint Institute and partners attracted 55 registrants.

Overall feedback from attendees continues to show support for this being an event that provides a unique forum to bring together MSK researchers/trainees and partners. Over 85% of responders reported that they would plan to attend another CBJC conference in the future and over 70% indicating that CBJC 2022 enabled participants to share/present research that they would otherwise not have been able to share in a timely fashion due to the cancellation of many conferences during the COVID-19 pandemic.

Young Investigators Forum (April 20, 2022) - <https://cbjc.ca/program/CBJY.html>

The 1-day afternoon forum included 4 plenary sessions:

- Insider View of Tri-Council Scholarships – panels of expert reviewers and successful applicants in theme-specific (CIHR Clinical, CIHR Basic Science, and NSERC) shared information and their experiences.
- No Time to be Human: Making Room for Self-Care in Graduate School (speaker – Heather Patterson, PsyD, Dalhousie University)
- Yoga (presenter – Julia Kontak, Sweat Service - Halifax, NS)
- Academia and Beyond: Career Opportunities After Graduate School (speakers – Anusha Ratneswaran – Clinical Evaluator at Health Canada; Shea Balish – CEO & Founder of Curv Health; Heather Richbourg – Bioinformatics Scientist I at Ultragenyx Pharmaceutical Inc.; Tom Appleton – Clinician-Scientists, Western University)

CBJC 2022 Conference Program (April 21 and 22, 2022) - <https://cbjc.ca/program/index.html>

The 2-day afternoon sessions included both plenary and break-out sessions:

Day 1

- Keynote Address: **Human & Technology Interaction for Health** – *Persuasive Technology for Health & Wellness* (speaker - Rita Orji, Dalhousie University)
- Plenary Session A: **Inflammation & Autoimmune Diseases** – *Control of ECM homeostasis health and inflammatory disease by MMP cleavage of non-Matrix substrates* (speaker – Christopher Overall, University of British Columbia); *The emerging role of iRhom2 and ADAM17 biology in inflammatory disease* (speaker – Carl Blobel, HSS/Weill Cornell Medicine, New York, NY); and three student presentations.

- Concurrent Special Emphasis Sessions: **Basic Science for MSK** and **Human & Technology Interaction for Health** – 16 student presentations.
- Plenary Session B: Phenotyping, Context, and Design Principles – *A Personalized Approach to Rheumatoid Arthritis Flares* (speaker Dana Orange, Rockefeller University and Hospital for Special Surgery, New York, NY); and four student presentations.
- Bilingual Live Poster Showcase

Day 2

- Plenary Session C: **Juvenile Arthritis, Care & Transitions** – *Recent Advances in the Management of Juvenile Idiopathic Arthritis* (speaker – Angelo Ravelli, Scientific Director, Giannina Gaslini Institute, Genoa, Italy); *Transition from Pediatric to Adult Care for Juvenile Arthritis* (speakers – Evelyn Rozenblyum, Pediatric Rheumatologist, SickKids and St. Mike’s Hospital, Toronto; Danielle McCormack, Advanced Practice Physiotherapist, The Arthritis Society; Natash Gakhal, Adult Rheumatologist, Women’s College Hospital, Toronto)
- Round Table Discussion: **JIA Patient Partner/Community** – 3 presenters
- Special Emphasis Session: **Basic Science for MSK-Bone** – 3 student presentations
- Plenary Session D: *Injury Prevention and Rehabilitation – Walk this Way: How Gait Biomechanics Impact Outcomes Following ACL Injury and Treatment Options* (speaker – Brian Pierosimone, University of Carolina, Chapel Hill, USA); *Movement Matters: Gait Retraining for Patellofemoral Pain* (speaker – Irene Davis, University of South Florida, USA); three student presenters.

Useful part of the event:

Variety of topics and knowledge presented.

I especially appreciated the speakers from other regions of the world. I also appreciated the student presentations and the succinct information that they shared. The Juvenile Arthritis sessions were enlightening.

This was the first virtual poster session I’ve attended and I enjoyed the efficiency of being able to see all of the research presented in a convenient format.

Least useful part of the event:

Online meetings are always hard; hopefully next time it will be in person.

<b>Registration</b>	41 registrants
<b>Overall Attendance</b> (breakdown by session evaluations below)	55 total participants including speakers

<b>Evaluation forms submitted</b>	<p>28 people completed evaluation forms (51% of participants)</p> <p><b>Conference participants who completed the evaluation form were mainly trainees (57%),</b> investigators (18%), invited speakers (18%) and research staff (4%) or partner/collaborator/community member ((4%). <b>Most people were from Western University (50%),</b> University of Calgary (23%) or other institutions (27%). <b>Overall participants who completed the evaluation form were mainly from Ontario (62%),</b> Alberta (23%), Quebec (8%), Manitoba (4%) and PEI (4%).</p>
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Please rate the following statements using the agreement scale provided. <b>The event...</b>	<b>Disagree (1) ----- Agree (5)</b>				
..... provided a unique forum to bring together MSK researchers/ trainees/ partners	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	0 (0%)	<b>15 (60%)</b>	<b>10 (40%)</b>
..... helped to foster a sense of community among MSK collaborators across Canada and beyond.	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	1 (4%)	<b>17 (68%)</b>	<b>7 (28%)</b>
..... increased my knowledge of MSK research or related topics.	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	2 (8%)	<b>14 (56%)</b>	<b>9 (36%)</b>
..... encouraged me to explore perspectives of other disciplines/research areas and how they could help enhance or accelerate research and innovation in my area.	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	2 (8%)	<b>14 (56%)</b>	<b>9 (36%)</b>
..... motivated me to explore clinical and business applications linked to my work.	1	2	3	4	5
# respondents (percentage)	0 (0%)	2 (8%)	4 (16%)	<b>16 (60%)</b>	4 (16%)

Please rate the following statements using the agreement scale provided. <b>The event...</b>	<b>Disagree (1) ----- Agree (5)</b>				
	1	2	3	4	5
..... inspired me to expand training opportunities for myself or in my work.	1	2	3	4	5
# respondents (percentage)	0 (0%)	1 (4%)	7 (28%)	<b>14 (56%)</b>	3 (12%)
..... had appropriate and stimulating interactive components	1	2	3	4	5
# respondents (percentage)	1 (4%)	0 (0%)	3 (12%)	<b>17 (68%)</b>	4 (16%)
... was an appropriate length of time.	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	3 (12%)	<b>14 (56%)</b>	<b>8 (32%)</b>
..... platform worked well for live-sessions.	1	2	3	4	5
# respondents (percentage)	1 (4%)	0 (0%)	4 (16%)	<b>13 (52%)</b>	<b>7 (28%)</b>
..... platform worked well for pre-recorded videos and abstracts of oral/poster presenters.	1	2	3	4	5
# respondents (percentage)	0 (0%)	1 (4%)	4 (16%)	<b>13 (52%)</b>	<b>7 (28%)</b>

<b>The goal of the event was to increase knowledge and advance collaborations.</b> Using the scale provided, please rate the extent to which each session achieved this.	<b>Not at all (1) --- Completely (5)</b>						<b>Attendance</b>
	N/A	1	2	3	4	5	
Young Investigators Forum: "Insider View of Tri-Council Scholarships"	N/A	1	2	3	4	5	%
# respondents (percentage)	12(52%)	0 (0%)	2 (18%)	1 (9%)	<b>4 (36%)</b>	<b>4 (36%)</b>	39%
Young Investigators Forum: "No Time to Be Human: Making Room for Self-Care in Graduate School"	N/A	1	2	3	4	5	
# respondents (percentage)	14(61%)	0 (0%)	2 (22%)	1 (11%)	<b>4 (44%)</b>	2 (22%)	32%

<b>The goal of the event was to increase knowledge and advance collaborations.</b> Using the scale provided, please rate the extent to which each session achieved this.	Not at all (1) --- Completely (5)						Attendance
Young Investigators Forum: Yoga	N/A	1	2	3	4	5	
# respondents (percentage)	19(83%)	1 (25%)	0 (0%)	1 (25%)	<b>2 (50%)</b>	0 (0%)	14%
Young Investigators Forum: "Academia and Beyond: Career Opportunities After Graduate School"	N/A	1	2	3	4	5	
# respondents (percentage)	13(57%)	0 (0%)	0 (0%)	1 (10%)	<b>3 (30%)</b>	<b>6 (60%)</b>	36%
DAY 1 - Keynote Address: Human & Technology Interactions for Health	N/A	1	2	3	4	5	
# respondents (percentage)	5 (22%)	0 (0%)	0 (0%)	2 (11%)	<b>10(56%)</b>	<b>6 (33%)</b>	64%
DAY 1 - Plenary Session A: Inflammation & Autoimmune Diseases	N/A	1	2	3	4	5	
# respondents (percentage)	7 (30%)	0 (0%)	0 (0%)	2 (13%)	<b>10(63%)</b>	<b>4 (25%)</b>	57%
DAY 1 - Special Emphasis Session: Basic Science for MSK	N/A	1	2	3	4	5	
# respondents (percentage)	6 (26%)	0 (0%)	0 (0%)	3 (18%)	<b>8 (47%)</b>	<b>6 (35%)</b>	61%
DAY 1 - Special Emphasis Session: Human & Technology Interaction for Health	N/A	1	2	3	4	5	
# respondents (percentage)	5 (22%)	0 (0%)	0 (0%)	2 (11%)	<b>8 (44%)</b>	<b>8 (44%)</b>	64%
DAY 1 - Plenary Session B: Phenotyping, Context, and Design Principles	N/A	1	2	3	4	5	
# respondents (percentage)	6 (26%)	0 (0%)	0 (0%)	2 (12%)	<b>7 (41%)</b>	<b>8 (47%)</b>	61%
DAY 1 - Bilingual Live Poster Showcase	N/A	1	2	3	4	5	
# respondents (percentage)	10(43%)	0 (0%)	9 (0%)	2 (15%)	<b>7 (54%)</b>	<b>4 (31%)</b>	46%



<b>The goal of the event was to increase knowledge and advance collaborations.</b> Using the scale provided, please rate the extent to which each session achieved this.	Not at all (1) --- Completely (5)						Attendance
DAY 1 - Virtual Poster Showcase	N/A	1	2	3	4	5	
# respondents (percentage)	6 (26%)	0 (0%)	0 (0%)	2 (12%)	8 (47%)	7 (41%)	61%
DAY 2 - Plenary Session C: Juvenile Arthritis, Care & Transitions	N/A	1	2	3	4	5	
# respondents (percentage)	7 (30%)	0 (0%)	0 (0%)	3 (19%)	7 (44%)	6 (38%)	57%
DAY 2 - JIA Patient Partner/Community Round Table Discussion	N/A	1	2	3	4	5	
# respondents (percentage)	7 (30%)	0 (0%)	0 (0%)	1 (6%)	7 (44%)	8 (50%)	57%
DAY 2 - Special Emphasis Session: Basic Science for MSK - Bone	N/A	1	2	3	4	5	
# respondents (percentage)	9 (39%)	0 (0%)	0 (0%)	0 (0%)	9 (64%)	5 (36%)	50%
DAY 2 - Plenary Session D: Injury Prevention and Rehabilitation	N/A	1	2	3	4	5	
# respondents (percentage)	0 (0%)	0 (0%)	1 (6%)	0 (0%)	6 (35%)	10(59%)	61%
DAY 2 - Final Thoughts and Reflections: CBJC 2022	N/A	1	2	3	4	5	
# respondents (percentage)	8 (35%)	1 (7%)	0 (0%)	1 (7%)	7 (47%)	6 (40%)	54%

Please rate the following statements using the scale provided.	Not at all (1) ----- Completely (5)				
<b>I feel the CBJC 2022 enabled participants to share/present research that they would otherwise not have been able to share in a timely fashion due to the cancellation of many conferences during the COVID-19 pandemic.</b>	1	2	3	4	5

Please rate the following statements using the scale provided.	Not at all (1) ----- Completely (5)				
# respondents (percentage)	1 (4%)	1 (4%)	2 (9%)	<b>10 (43%)</b>	<b>9 (39%)</b>
<b>I believe that the CBJC offers a unique value-add not offered by other events.</b>	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	6 (26%)	<b>8 (35%)</b>	<b>9 (39%)</b>
<b>This event raised my awareness of key MSK groups such as Western's Bone and Joint Institute, the Canadian MSK Rehab Research Network, the Canadian Network for Mobility Research (CaNMOR), the McCaig Institute for Bone and Joint Health, UHN Schroeder Arthritis Insitute and others.</b>	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	4 (17%)	<b>10 (43%)</b>	<b>9 (39%)</b>
<b>Although there were some relevant COVID-19 references during the event, I enjoyed spending time focused primarily on MSK research during this challenging time.</b>	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	3 (13%)	<b>10 (43%)</b>	<b>10 (43%)</b>
<b>I am likely to participate in a future CBJC.</b>	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	3 (13%)	<b>7 (30%)</b>	<b>13 (57%)</b>
<b>I would prefer to attend future CBJC Events in person.</b>	1	2	3	4	5
# respondents (percentage)	0 (0%)	0 (0%)	5 (22%)	6 (26%)	<b>12 (52%)</b>

<p><b>The most useful part of the event was...</b></p> <p>All of the plenary sessions were informative and shared new information and resources. I especially appreciated the speakers from the other regions of the world. I also appreciated the student presentations and the succinct information that they shared. The Juvenile Arthritis sessions were enlightening.</p> <p>Day1 – Health Technology Interaction, Q &amp; A (some difficult questions and sharing of experiences), 2 speakers were excellent; novelty of the talks and variety of topics/knowledge discussed</p> <p>Poster sessions - easy to use virtual platform; I enjoyed being able to access everyone’s posters in a virtual format; this was the first virtual poster session I’ve attended and enjoyed the efficiency of being able to see all of the research presented all together in a convenient format</p> <p>Young Investigators Forum – It was great to connect with other trainees</p>
<p><b>The least useful part of the event was...</b></p> <p>Online meetings and conferences are hard, next time it will be in person</p> <p>The information and directions given in advance of the meeting; better notification system during the event; event seemed to be planned at short notice</p> <p>A biomechanics and any rehabilitation session</p> <p>None – all sessions were useful</p>
<p><b>Do you have any speaker recommendations for CBJC 2024 (May 8-11, 2024)?</b></p> <p>More advertisement at non-Western universities</p> <p>No, it was great!</p>
<p><b>Please provide any other information you feel would help improve future event like this one.</b></p> <p>An in-person conference (more engaging and interesting when in-person, online conferences make it hard to engage with attendees)</p> <p>Make the information about poster protocols and their set-up available sooner, not only a few days before the conference; make it clear when deadlines are to be extended for poster submission BEFORE the initial deadline has passed</p> <p>Well organized the day of [my] presentation, however little communication regarding details and content of presentations leading up to the conference, only communication was in last couple of weeks before presentation</p> <p>Better and more clear instructions</p> <p>Sessions – I enjoyed the session on autoimmunity and inflammation very much! Expand the research area to rehabilitation of people with severe disabilities who need assistive devices for walking/functional activities</p>

## Appendix J – 2022 MSK Publications by BJI Members

1. Carter, M. M.; Birmingham, T. B.; Philpott, H. T.; Giffin, J. R.; Lanting, B. A.; Appleton, C. T. Angiogenesis And Endothelial Dysfunction: Synovial Vascular Pathology Is Associated With Surrogate Measures Of Knee Load During Walking. *Osteoarthritis And Cartilage*. 2022. 30, N/A, S36-S37, 1.
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## Appendix K – BJI News Stories

Date	<u>BJI News 2022</u>
Dec 8 2022	<u>Valuing others key trait in Award of Excellence recipients</u>
Nov 1 2022	<u>Novel Innovations to Enhance Everyday Mobility Comfort for All!</u>
Nov 24 2022	<u>Bioarcheologist comes face to face with King Tut</u>
Sep 14 2022	<u>Western researchers selected to the Canadian Academy of Health Sciences</u>
Jul 8 2022	<u>Big step forward in researching knee pain</u>
Jun 9 2022	<u>Western-led international corrosion training program nets \$1.65M NSERC grant</u>
May 11 2022	<u>New Gray chair aims to solve pain-limiting mobility problems</u>
Apr 20 2022	<u>Designing frugal medical devices among projects receiving Western strategic grants</u>
Apr 13 2022	<u>Busy mothers breastfed less in 19th century Netherlands: study</u>
Apr 7 2022	<u>Western honours this year's most outstanding educators</u>
Feb 23 2022	<u>Western researchers receive \$1.25M in federal funding</u>
Feb 8 2022	<u>Over-the-counter meds offer same level of pain relief as opioids: study</u>
Jan 12 2022	<u>Scholar, curator named Canada Research Chair</u>
Jan 7 2022	<u>Western-trained Egyptologist 'unwraps' mummy mystery</u>