

Steven Kerfoot, PhD

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DOB: 1974-09-02
Citizenship: Canadian
Rank: Associate Professor (with tenure)

Updated: 2024-04-20

Education:

2005	PhD Medical Sciences (Immunology) Supervisor: Dr. Paul Kubes	University of Calgary
1996	BSc (Honors), Zoology Supervisor: Dr. Marvin Fritzler	University of Calgary

Training:

2011	Post-Doctoral Fellow Dept. Lab Medicine Supervisors: Dr. Ann Haberman, Dr. Mark Shlomchik	Yale University School of Medicine
2007	Post-Doctoral Fellow Dept. Internal Medicine Supervisor: Dr. Philip Askenase	Yale University School of Medicine

Appointments:

Current Appointments:

2017-present	Associate Professor Dept. Microbiology & Immunology,	University of Western Ontario
2019-present	Associate Scientist Robarts Research Institute,	University of Western Ontario

Previous Appointments:

2011-2017	Assistant Professor Dept. Microbiology & Immunology,	University of Western Ontario
2007-2011	Post-Doctoral Fellow Dept. Lab Medicine	Yale University School of Medicine
2005-2007	Post-Doctoral Fellow Dept. Internal Medicine	Yale University School of Medicine

Honors and Awards:

2015,16,17,18	Western University Student's Council Teaching Honor Roll (<i>award discontinued</i>)	
2010-2014	Garrett Herman endMS Research and Training Network Transitional Career Development Award Multiple Sclerosis Society of Canada and the Multiple Sclerosis Scientific Research Foundation	
2008	Gershon/Trudeau Fellowship Yale Dept. of Immunobiology	
2005-2008	Canadian Institutes of Health Research Postdoctoral Fellowship	
2001-2004	Alberta Heritage Foundation for Medical Sciences Studentship	
1999-2001	Multiple Sclerosis Society of Canada Studentship	

Scholarly and Professional Activities:*Society Membership:*

- 2011-present Full Member, Canadian Society for Immunology
 2011-present Full Member, American Association of Immunologists

*Roles with Funding Agencies:**Grant Panels and Peer Review for Funding Agencies:*

- 2024-06 Scientific Officer, Canadian Institutes of Health Research Immunology Panel
 2023-12 Scientific Officer, Canadian Institutes of Health Research Immunology Panel
 2023-07 Scientific Officer, Canadian Institutes of Health Research HIV/AIDS STBBI Panel
 2023-06 Scientific Officer, Canadian Institutes of Health Research Immunology Panel
 2022-11 Scientific Officer, Canadian Institutes of Health Research Immunology Panel
 2022-05 Scientific Officer, Canadian Institutes of Health Research Immunology & Transplantation
 2022-01 Panel Member, Multiple Sclerosis Society of Canada Biomed Grants Committee
 2021-12 Panel Member, Canadian Institutes of Health Research Immunology & Transplantation
 2021-05 Panel Member, Canadian Institutes of Health Research Immunology & Transplantation
 2021-03 Panel Member, Multiple Sclerosis Society of Canada Personnel Awards Committee
 2019-11 Panel Member, Canadian Institutes of Health Research Immunology & Transplantation
 2019-05 Panel Member, Canadian Institutes of Health Research Immunology & Transplantation
 2016-05 Stage 1 Reviewer, Canadian Institutes of Health Research Project Scheme Live Pilot
 2015-03 Panel Member, Multiple Sclerosis Society of Canada Personnel Awards Committee
 2014-03 Panel Member, Multiple Sclerosis Society of Canada Personnel Awards Committee
 2013-03 Panel Member, Multiple Sclerosis Society of Canada Personnel Awards Committee
 2012-03 Panel Member, Multiple Sclerosis Society of Canada Personnel Awards Committee
 2012-05 Panel Member, endMS Manitoba-Ontario Summer Research Studentships Review

Ad Hoc Review of Grant Proposals for National and International Funding Agencies:

- 2024 External Reviewer, Natural Sciences & Engineering Research Council of Canada Discovery Grants
 2023 International Reviewer, MS Australia (Aus) Postdoctoral Fellowship Competition
 2023 International Reviewer, VIDI Programme (NL)
 2022 External expert reviewer for grant proposal, Medical Research Council (UK)
 2022 External Reviewer, Natural Sciences & Engineering Research Council of Canada Discovery Grant
 2022 Application Reviewer, Canadian Foundation for Innovation John Evans Leaders Fund
 2021 External Reviewer, Natural Sciences and Engineering Research Council of Canada Discovery Grant
 2020 Application Reviewer, Canadian Foundation for Innovation John Evans Leaders Fund
 2020 International Reviewer, ETH Zurich (CH)
 2020 Reviewer, Canadian Institutes of Health Research COVID-19 Rapid Research comp.
 2020 International Reviewer, Italian Multiple Sclerosis Society (IT)
 2019 International Reviewer, Italian Multiple Sclerosis Society (IT)
 2018 International Reviewer, Italian Multiple Sclerosis Society (IT)
 2017 Overseas External Assessor National Health and Medical Research Council (AU)
 2017 Reviewer, Canadian Society for Immunology Trainee & Junior Investigator Travel Awards
 2015 External Reviewer, Medical Research Council (UK)
 2015 External Reviewer, Natural Sciences & Engineering Research Council of Canada Discovery Grant

Grant Panels and Peer Review for Internal University Funding:

- 2022 Reviewer, Schulich School of Medicine & Dentistry Collaborative Research Seed Grants
 2017 Reviewer, Schulich School of Medicine & Dentistry Collaborative Research Seed Grants
 2015 Reviewer, London Regional Transgenic Gene Targeting Facility Novel Mouse Grant

*Roles with Journals:*Editorial Roles:

- 2021 - 2025 Section Editor: *The Journal of Immunology* (2 terms)
 2020 - 2022 Review Editor: *Frontiers in Immunology*
 2015 - 2019 Associate Editor: *The Journal of Immunology* (2 terms)
 2015 Handling Editor for Special Topic: *Frontiers in Immunology - Lymphocytes in MS and EAE: more than just a CD4⁺ world.*

Ad Hoc Peer Review of Manuscripts (ongoing):

Journal of Immunology, Annals of Neurology, European Journal of Immunology, Immunology and Cell Biology, Journal of Molecular Histology, Pharmacological Reports, BioFactors, Acta Neuropathologica, Clinical Immunology, Journal of Visualized Experiments, Frontiers in Immunology, Drug Design Development and Therapy, PLoS One, Journal of Neuroimmunology, Oxidative Medicine and Cellular Longevity, Journal of Neuroinflammation, mAbs, Cell Reports, Molecular Neurodegeneration, Experimental Cell Research, Scientific Reports

Roles in Conferences:

- 2023-12-05 Session Co-Chair: Advances in Multiple Sclerosis. 2023 *endMS Conference*. Toronto ON,
 2023-05-13 Block Symposium Co-Moderator: Novel Therapeutic Targets for controlling Immune Responses and Dampening Inflammation. *American Association of Immunology 2023*. Washington DC.

Invited Lectures:

- 2023-10-20 “*Location-Specific B cell Functions*” Shlomchik Lab 30th Reunion. Dept. Immunology, U Pittsburgh, PA.
 2023-03-16 “*Intervening in interactions between T and B cells*” Virtual Symp. Zenas BioPharma, Boston, MA
 2022-11-10 “*B cell contributions to autoimmune responses*”. NeuroForum Day CHUL, Quebec, QC.
 2021-11-19 “*A Tale of Two Anatomical Locations*”. Dept. Anat Cell Biol, UWO, London, ON.
 2019-02-12 “*T cell control of B cell fate in the GC*”. Dept. Immunology, U Toronto, ON.
 2018-12-03 “*B cell fate Decisions in the GC*”. Dept. Physiology & Pharmacology Seminar Series, UWO, ON.
 2018-11-20 “*B cells in CNS inflammation*”. Robarts Research Seminar Series, London, ON.
 2017-11-15 “*London MS Update*”. Taylor Prize Symposium, Robarts Research Institute, London ON.
 2017-06-02 “*Collaborations between T cells and B cells in chronic autoimmunity*”. Dr. Bhagirath Singh Symposium, Western University, ON.
 2015-05-22 “*T and B cell interactions and the initiation of CNS autoimmunity*”. Dept. Microbiology and Immunology Research Retreat. Grand Bend, ON.
 2015-01-15 “*Interactions between T and B cells in the initiation and maintenance of CNS autoimmunity*”. by invitation to Dr. Paul Kubes Research Retreat, Kananaskis, Alberta.
 2014-04-14 “*Animal models of multiple sclerosis: where they’ve led us astray and how they’re getting better*”. Department of Clinical Neurology Grand Rounds, Western U
 2015-02-27 “*Use of animal models of multiple sclerosis in research*”. Canadian Association for Lab Animal Science Café, London, Canada.
 2013-10-04 “*Interactions between myelin-specific T and B cells in central nervous system autoimmunity*”. Schulich School of Medicine and Dentistry New Faculty Seminar, London.
 2012-10-16 “*Lymphocyte interactions that drive chronic autoimmune disease*”. Dept. Molecular Biology and Biochemistry, Simon Fraser University, BC.
 2010-12-08 “*Taking a closer look at B cells in CNS autoimmunity*”. Keynote Talk, Multiple Sclerosis Society of Canada endMS Research Conference, Whistler, BC.
 2010-10-28 “*Fate decision zones for B and T cells early in the germinal center response*”. Dept. Microbiology and Immunology, Western University, London, ON.
 2010-03-22 “*Using imaging to map the migration route of B and T cells on their quest to colonize the follicle*”. Institute of Infection and Immunity, University of Calgary, Calgary, AB.

Community Outreach, Knowledge Translation, Public Lectures, Videos, and Events:

- 2024-02-24 UWO Animal Care and Veterinary Services Seminar on “*Animals in Research*” – continuing education session for Veterinary and Care Staff.
- 2023-07-20 SHAD Canada Seminar on “*Vaccines and Public Health*” - advanced high school summer program
- 2021-07-23 SHAD Canada Seminar on “*Vaccines*” - advanced high school summer program
- 2021-03-27 “*Vaccines Seminar*” for ULEAD Western - Student-run leadership retreat
- 2021-01 to 05 “*Immunology and Vaccines during the pandemic*” talks for g6-8 students and parents- Louise Arbour French Immersion School
- 2019-06-24 “*Social Media for Academics*” Workshop – panelist – Shulich School of Medicine
- 2018-11-18 Public Lecture: “*How vaccines work*” - Western University Preview Day
- 2018-03-18 Public Lecture: “*Ask an MS Expert*” - Western MS Student Club
- 2018-01-10 Judge: Scinapse Undergraduate Science Case Competition.
- 2017-11-12 Public Lecture: “*How vaccines work*” - Western University Preview Day
- 2017-10-23 Career Lecture to HS Students at Gairdner event: “*Level up your science character*”
- 2017-05-25 Judge: Scinapse Undergraduate Science Case Competition.
- 2017-05-11 Public Lecture: “*How vaccines work*” - Western University March Break Open House
- 2016-11-13 Public Lecture: “*How vaccines work*” - Western University Preview Day
- 2015-11-16 Presentation: “*How to become a scientist*” Science Student Council Discovery Week.
- 2015-11-15 Public Lecture: “*How vaccines work*” - Western University Preview Day
- 2015-07-26 Media Interview: “*Grand Bend to London: 25 years of hope*” – MSSOC YouTube video
- 2015-03-14 Public Lecture: “*How vaccines work*” - Western March Break Open House
- 2014-11-19 Public Presentation: “*Ask an MSologist Night*” – Western MS Student Club
- 2014-11-16 Public Lecture: “*How vaccines work*” - Western University Preview Day
- 2014-07-26 Public Speaker: fundraising event – MSSOC Bike Gala
- 2013-04-29 Public Lecture: “*Advances in MS Research*” – City of London, ON Café Scientifique
- 2012-09-13 Scientist Representative: MSSOC Research Priorities Discussion

*Committee Membership and Service:**University, Faculty, and Other External Committees:*

- 2020-present Member, Animal Care Committee
- 2023-2026 Member, Dept Anatomy & Cell Biology Promotion & Tenure Committee
- 2020-2022 Member, Biomedical Research Facility Working Group
- 2020-2022 Member, Summer Research Training Program Committee (for medical students)
- 2019 Member, Animal Research Communications Policy Committee
- 2018 Member, Head Veterinarian Selection Committee
- 2018-2019 Member, Biomedical Research Facility committee and Health Status Working Group
- 2017 Internal Member, Taylor Prize 2017 Committee (Robarts Research Institute)
- 2016-2018 Member, Health Sciences Animal Facility Review Advisory Committee
- 2015-2016 Member, Confocal Microscope Facility Users Advisory Committee
- 2015 Member, Scientist Focus Group, Western Animal Care & Vet Services
- 2014-2015 Member, Flow Cytometry Core Facility Advisory Committee
- 2014-2019 Member, Western Animal Care & Vet Services Advisory Committee

Department of Microbiology and Immunology Committees:

- 2020-present Member, Microbiology & Immunology Graduate Education Committee
- 2023-present Member, Microbiology & Immunology Planning and Space Committee
- 2014-present Member, Microbiology & Immunology Outreach Committee
- 2019 Faculty Advisor, Infection, and Immunity Research Forum Committee
- 2018-2021 Member, Microbiology & Immunology Promotion and Tenure Committee
- 2017-2018 Member, Microbiology & Immunology Annual Performance Evaluation Committee
- 2015-2016 Member, Bhagi Singh Symposium Organization Committee
- 2015 Member, Microbiology & Immunology Retreat Organizing Committee
- 2014-2016 Member, Microbiology & Immunology Infrastructure Committee
- 2012-2019 Member, Microbiology & Immunology Undergraduate Education Committee
- 2011-2014 Member, Microbiology & Immunology Seminar Committee

Direct Trainee Supervision and Mentorship:*Post-Doctoral Fellows:*

- 2016-01 - 2020-09 Kate Parham, PhD'15 (U South Australia)
- *Awarded:* 2017 PDF fellowship from the MS Society of Canada (\$41,000/yr, 3yrs)
 - *Currently:* Medical Science Liaison, Eli Lilly Canada.

*Graduate Students:*PhD Students:

- 2022-09 – present Yi-Han Chen PhD Candidate (Microbiology & Immunology)
- *Thesis:* “*Identifying molecular mechanisms of peripheral B cell tolerance*”
- 2021-09 – present Daniel Morelli PhD Candidate (Microbiology & Immunology)
(transferred from MSc 2023-03)
- *Thesis:* “*B cell mechanisms of antigen uptake and presentation*”
- 2015-09 - 2021-01 Yodit Tesfagiorgis PhD (Microbiology & Immunology)
(transferred from MSc 2017-04)
- *Thesis:* “*Characterization of B cells in meningeal clusters found in central nervous system autoimmune disease and their susceptibility to therapeutic intervention*”.
 - *Awarded:* 2018 PhD studentship from the MS Society of Canada (\$22,000/yr, 3yrs)
 - *Awarded:* Ontario Graduate Scholarships (2016/17, 2017/18) (\$15,000ea)
 - *Currently:* Associate at McKinsey & Co. (top international consulting firm)
- 2014-04 – 2018-11 Rajiv Jain PhD (Microbiology & Immunology)
- *Thesis:* “*Antigen control of B cell fate decisions in the germinal center response*”.
 - *Awarded:* 2015 Waugh Family Multiple Sclerosis Society of Canada Doctoral Studentship Award (\$22,000/yr, 3yrs).
 - *Currently:* Post Doctoral Fellow at the University of Calgary.

MSc Students:

- 2023-09 – present Cameron Whalen MSc Program (Microbiology & Immunology)
- *Thesis:* “*Evaluation of B cell/T cell interactions in inflamed tissues*”
- 2023-05 – present Eden Kemal Accelerated MSc Program (Microbiology & Immunology)
- *Thesis:* “*Evaluation of the autoimmune response to a novel model antigen*”
- 2021-09 – present Morgan Langille MSc Program (Microbiology & Immunology)
- *Thesis:* “*Defining B cell interactions with autoimmune T cells that drive chronic disease*”
- 2020-09 – 2022-12 Lika Chowdhury MSc Program (Microbiology & Immunology)
- *Thesis:* “*Characterization of inflammatory meningeal B cells in autoimmune inflammation*”
 - *Next:* Flow Core Facility Technician in Toronto
- 2013-05 – 2014-04 Rajiv Jain Accelerated MSc Program (Microbiology & Immunology)
- *Thesis:* “*Generating instantaneous reporters to monitor the activity of the NFκB and NFAT transcription factors*”
 - *Next:* Stayed as PhD student under my supervision
- 2012-09 – 2015-04 Amy Dang MSc Program (Microbiology & Immunology)
- *Thesis:* “*MOG_{tag}, a novel murine oligodendrocyte glycoprotein fusion protein, induces appropriate autoimmune B cell germinal center responses and central nervous system autoimmune disease.*”
 - *Next:* Project Coordinator at WORLDDiscoveries

Undergraduate Honours and other Project Students:

- 2023/24 Sahand Marzban. “Analysis of B cell antigen uptake”.
- 2023/24 Jephania Chow. “Characterizing ovaMOGtag-induced EAE”.
- 2022/23 Ahmed Mohamed. “Developing phagocytic targets for B cells”.
- *Currently*: Med Student at UWO
- 2021/23 Eden Kamal. “Development of a novel model antigen”.
- *Awarded*: 2022 NSERC Undergraduate Summer Research Award.
 - *Currently*: Accelerated MSc Student under my supervision.
- 2021/22 Kevin Zhang. “Developing phagocytic targets for B cells”.
- *Currently*: Medical Student at U Toronto
- 2019/21 Sherry Tan. “Evaluating T/B interactions in vivo and in vitro”.
- *Awarded*: 2020 NSERC USRA.
 - *Currently*: Medical Student at U Ottawa
- 2019/20 Robbie Jin. “Molecular characterization of meningeal B cells”.
- *Currently*: Graduate Student in Immunology at U Toronto
- 2019/20 Eoin Blythe. “Glycosialated MOG protein as an antigen and reagent”.
- *Next*: MSc student with Dr Dekaban
- 2017/18 Yomna El-Sakka. “Characterizing CNS autoimmunity induced by haMOGtag and hahaMOGtag”
- *Next*: Clinical Trials Management student at UWO.
- 2017/18 Maitri Makwana. “Characterizing the MOGtet reagent to identify circulating autoimmune B cells”
- *Next*: Intern at Apotex Pharmaceuticals
- 2016/17 Alicia Dakins. “Characterizing CNS pathology in novel EAE models”
- *Next*: Pharmacy student at U Waterloo.
- 2015/16 Sarah Zhu. “Investigation of MOG-specific B cells in the CNS of EAE mice”
- *Next*: Medical Student, McMaster University
- 2014/15 Yodit Tesfagiorgis. “Characterization of the activation history and antigen specificity of B cells found within meningeal B cell clusters in central nervous system autoimmunity”
- *Next*: Stayed as PhD Student under my supervision.
- 2014/15 Malik El-Feghi. “Generating fluorescent reporters of B cell activation”
- *Next*: Medical Student at UWO
- 2013/15 Kathleen Walsh – Scholar’s Elective Program.
- *Next*: Medical Student at the Northern Ontario School of Medicine
- 2013/14 Emiliano Romanchik. “Evaluating the germinal center response to MOG vs NP-OVA using histology”
- *Next*: Technologist at Sanofi Pasteur.
- 2012/13 Rajiv Jain. “Bimolecular fluorescence complementation imaging of B and T cell interactions”
- *Next*: Graduate student under my supervision.
- 2011/12 Jihyen Ha – Scholar’s Elective Program.

High School Students:

- 2018 Ali Mozaffaripour, Partners in Experiential Learning High School Program.

External Mentorship:

- 2013/14 SPRINT National Training Program (MS Society of Canada) Cross-disciplinary communications project – Animal models of MS
- Julia O’Mahony (U of Toronto),
 - Sandra Meyers (U of British Columbia)

Graduate Student Advisory and Examination Committees:**Doctoral Advisory Committees: (total: 8)**

- 2022-present Mark Kwok, Supervisor: Dr. B. Heit. Dept. MicroImm, UWO
- 2021-present Nicholas Walton, Supervisor: Dr. J McCormick. Dept. MicroImm, UWO
- 2021-present Aanchal Rishi, Supervisor: Dr. J McCormick. Dept. MicroImm, UWO
- 2020-present Shabitha Arumugarajah, Supervisor: Dr. L Gunaratnam, Dept. MicroImm, UWO

2020-present Lane Buchanan, Supervisor: Dr. J Prodger, Dept. MicroImm, UWO
 2016-2020 Ji Yun Lee. Supervisor: Dr. L Gunaratnam, Dept. MicroImm, UWO
 2015-2018 Carolina Batista. Supervisor: Dr. R DeKoter, Dept. MicroImm, UWO
 2011-2015 Stephen Li. Supervisor: Dr. R DeKoter, Dept. MicroImm, UWO

Masters Advisory Committees: (total: 26)

2023-present Salman Ali, Supervisor: Dr. J McCormick, Dept. MicroImm, UWO
 2023-present Maria Uribe, Supervisor: Dr. R. DeKoter. Dept. MicroImm, UWO
 2023-present Evan Papalambropoulos, Sup: Dr. D Heinrichs. Dept. MicroImm, UWO
 2023-2024 Stephanie Fu, Supervisor: Dr. G Dekaban, Dept. MicroImm, UWO
 2022-present Reeya Parmar, Supervisor: Dr. J Prodger, Dept. MicroImm, UWO
 2022-present Joshua Yi, Supervisor: Dr. R. DeKoter. Dept. MicroImm, UWO
 2021-2023 Victor Velehorsch, Supervisor: Dr J Ronald. Dept. MicroImm, UWO
 2021-2024 Grace Zhang, Supervisor: Dr. D Heinrichs. Dept. MicroImm, UWO
 2021-2023 Allanna MacKenzie, Supervisor: Dr. R. DeKoter. Dept. MicroImm, UWO
 2021-2023 Clara Sun, Supervisor: Dr. G Dekaban, Dept. MicroImm, UWO
 2021-2022 Andrew McClennan, Supervisor: Dr. L Hoffman, Dept. Pathology, UWO
 2020-2022 Mia Sams, Supervisor: Dr. R. DeKoter. Dept. MicroImm, UWO
 2020-2022 Garth Finch, Supervisor: Dr. S Penuela, Dept. Anat & Cell Biol, UWO
 2020-2022 Eoin Blythe, Supervisor: Dr. G Dekaban, Dept. MicroImm, UWO
 2019-2021 Jaclyn Diamond, Supervisor: Dr. D Heinrichs, Dept. MicroImm, UWO
 2019-2021 Demitra Yotis, Supervisor: Dr. L Gunaratnam, Dept. MicroImm, UWO
 2019-2021 Hannah Raczkowski, Supervisor: Dr. R. DeKoter. Dept. MicroImm, UWO
 2018-2021 Yiming Lin, Supervisor: Dr. L Hoffman, Dept. Pathology, UWO
 2018-2018 Michelle Lim, Supervisor: Dr. R DeKoter, Dept. MicroImm, UWO
 2017-2019 Sally Eo, Supervisor: Dr. G Dekaban, Dept. MicroImm, UWO
 2017-2019 Darshit Patel, Supervisor: Dr. Y Gao, Dept. MicroImm, UWO
 2017-2019 Akshay Sule, Supervisor: Dr. J McCormick, Dept. MicroImm, UWO
 2016-2018 Benjamin Fuhrman, Supervisor: Dr. T Jevnikar, Dept. MicroImm, UWO
 2016-2018 Sophie Laramée. Supervisor: Dr. R DeKoter, Dept. MicroImm, UWO
 2015-2017 Kevin Blackney. Supervisor: Dr. G Dekaban, Dept. MicroImm, UWO
 2013-2015 Adrienne Wakabayashi. Supervisor: Dr. J McCormick, Dept. MicroImm, UWO

Examination Committees:

Examiner, Thesis Exams: (total: 27)

2023-06-01 Sofya Ulanova, MSc Thesis Exam, Supervisors: Drs. Barra & Cairns, MicroImm, UWO
 2023-05-22 Vincent Luo, PhD Thesis Exam, Supervisor: Dr A Orthwein, Oncology, McGill University
 2023-05-19 Julia Gevaert, PhD Thesis Exam, Supervisor: Dr. P Foster, Medical Biophysics UWO
 2022-07-22 Holy Philpott, PhD Thesis Exam, Supervisor: Dr. T Appleton, Anat&Cell Biol UWO.
 2022-06-24 Mia Sams, MSc Thesis Exam, Supervisor: Dr. R. DeKoter. Dept. MicroImm, UWO
 2021-07-26 Hannah Raczkowski, MSc Thesis Exam, Supervisor: Dr. R. DeKoter. Dept. MicroImm, UWO
 2021-06-29 Dennis Lee, PhD Thesis Exam, Supervisor: Dr. J. Gommerman, Dept. Immunol, U Toronto
 2021-04-22 Demitra Yotis, MSc Thesis Exam, Supervisor: Dr. L Gunaratnam, D. MicroImm, UWO
 2020-10-01 Tarannum Tasnim, MSc Thesis Exam. Supervisor: Dr B Heit, Dept. MicroImm, UWO
 2020-08-20 Ingrid Hon, MSc Thesis Exam. Supervisor: Dr. L Gunaratnam, Dept. MicroImm, UWO
 2019-09-13 Jason Knapp, MSc Thesis Exam, Supervisor: Drs. Arts/Dikeakos, Dpt. MicroImm, UWO
 2019-07-25 Sally Eo, MSc Thesis Exam, Supervisor: Dr. G Dekaban, Dept. MicroImm, UWO
 2019-02-12 Justin Chan, PhD Thesis Exam, Supervisor: Dr. G. Ehrhardt, Dept. Immunol, U Toronto
 2018-12-06 Corby Fink, PhD Thesis Exam. Supervisor: Dr. G Dekaban, Dept. MicroImm, UWO
 2018-08-08 Jess Rhee, MSc Thesis Exam. Supervisor: Dr. R DeKoter, Dept. MicroImm, UWO
 2017-04-18 Tayler Farrell, MSc Thesis Exam. Supervisor: Dr. D Heinrichs, Dept. MicroImm, UWO
 2017-03-17 Joseph Zeppa, PhD Thesis Exam. Supervisor: Dr. J McCormick, Dept. MicroImm, UWO
 2016-12-01 Jeffery Gaudet, PhD Thesis Exam. Supervisor: Dr. P Foster, Medical Biophysics, UWO
 2016-08-02 Ian Lobb, PhD Thesis Exam. Supervisor: Dr. A Sener, Dept. MicroImm, UWO
 2015-09-14 James Schneider, MSc Thesis Exam. Supers: Drs. M McGavin & D Heinrichs, Dept. MicroImm, UWO

2015-08-20 Jas Grewal, MSc Thesis Exam. Supervisor: Dr. A Sener, Dept. MicroImm, UWO
 2014-08-07 Ali Abbas, MSc Thesis Exam. Supervisor: Dr. R DeKoter, Dept. MicroImm, UWO
 2013-07-22 Matthew Quinn, PhD Thesis Exam. Supervisor: Dr. R Menon, Robarts Institute, UWO.
 2013-04-17 Shereen Turkistany, MSc Thesis Exam. Supervisor: Dr. R DeKoter, Dept. MicroImm, UWO.
 2013-01-30 Katherine Kasper, PhD Exam. Supervisor: Dr. J McCormick, Dept. MicroImm, UWO
 2012-08-22 Mathias Scinocca, MSc Thesis Exam. Supervisor: Dr. E Cairns, Dept. MicroImm, UWO
 2012-05-25 James Overton, PhD Thesis Exam. Supervisor: Dr. R Batterman, Rotman Institute of Philosophy, UWO.

Examiner, Comprehensive/Candidacy Exams: (total: 13)

2023-07-24 Rashed Rashu, Candidacy Exam. Supervisor: Dr M Haeryfar, Dept. MicroImm, UWO.
 2022-11-22 Nicholas Walton, Candidacy Exam. Supervisor: Dr J McCormick, Dept. MicroImm, UWO.
 2022-03-29 Shabitha Arumugarjah, Candidacy Exam. Super:Dr.L Guneratnam, Dept. MicroImm, UWO.
 2022-03-19 Lane Buchanan, Candidacy Exam. Supervisor:Dr.J Prodger, Dept. MicroImm, UWO.
 2021-07-23 Iulian Derecichei, Candidacy Exam. Supervisor:Dr.J Mann, Dept. MicroImm, UWO.
 2020-03-24 Blake Shannon, Candidacy Exam. Supervisor:Dr.J McCormick, Dept. MicroImm, UWO.
 2019-03-21 Smriti Juriasingani, Candidacy Exam. Supervisor: Dr. A Sener, Dept. MicroImm, UWO.
 2018-04-20 Jacklyn Hurst, Candidacy Exam. Supervisor: Dr. J McCormick, Dept. MicroImm, UWO.
 2015-08-05 Colin Venner, Candidacy Exam. Supervisor: Dr. E Arts, Dept. MicroImm, UWO.
 2015-07-27 Aaron Johnson, Candidacy Exam. Supervisor: Dr. J Dikeakos, Dept. MicroImm, UWO.
 2015-04-20 Steven Gameiro, Candidacy Exam. Supervisor: Dr. J Mymryk, Dept. MicroImm, UWO.
 2012-09-25 Matthew Quinn, Mid-Level Exam. Supervisor: Dr. R Menon, Robarts Institute, UWO.
 2012-10-26 Jennifer Guadagno, Comp Exam. Sup: Dr. S Cregan, Physiology & Pharmacology, UWO.

Chair, Thesis & Candidacy Exams: (total: 22)

2024-04-19 Yongqin Fu, PhD Thesis Exam, Super: Dr. X Wang, Dept, Elec & Comp Eng, UWO
 2023-10-05 Camille Leblanc, MSc Thesis Exam, Super: Dr. D Heinrichs, Dept. MicroImm, UWO
 2023-08-22 Rachel Low, MSc Thesis Exam, Super: Dr. S Kim, Dept. MicroImm, UWO
 2023-08-17 Chenglin Lou, PhD Thesis Exam, Super: Dr M Joannis, Psychology, UWO
 2023-07-27 Sarah Gowanlock, Candidacy Exam, Supervisor: Dr. J Prodger, MicroImm, UWO.
 2023-07-25 Brandon Dickson, MSc Thesis Exam, Super: Dr. B Heit, Dept. MicroImm, UWO.
 2023-07-21 Amrita Mitra, PhD Thesis Exam, Super: Dr. K Antia, Ivey Business, UWO
 2023-06-28 Alexander McGregor, PhD Thesis Exam, Super: Dr. A Benson. Psychology, UWO
 2023-04-13 Anda Pleniceanu, PhD Thesis Exam. Super. Drs. Pero & Plug. Theory & Criticism. UWO
 2022-10-21 Laura Muntz, MSc Thesis Exam. Super. Dr. Fruci , MicroImm, UWO
 2022-08-10 Chris Burke, PhD Thesis Exam. Super: Dr. J Blankenship Fac. Theory & Criticism. UWO
 2022-07-08 Diago Sornoza-Parrales, PhD Thesis Exam. Super: Dr. Riveros-Barrera. Fac. Edu. UWO
 2021-10-13 Eric Kirk, PhD Thesis Exam. Super: Dr. Charles Rice. Anat&Cell Bio, UWO.
 2021-08-23 Jenna Benoit, MSc Thesis Exam. Supervisor: Dr. Haeryfar, MicroImm, UWO
 2021-07-27 Izabela Batko, Candidacy Exam, Supervisor: Dr. D Heinrichs, Dept. MicroImm, UWO.
 2021-04-08 Leah Cheung, Candidacy Exam, Supervisor: Dr. R Troyer, Dept. MicroImm, UWO.
 2020-07-09 Yiyang Zhang, Candidacy Exam, Supervisor: Dr. E Arts, Dept. MicroImm, UWO.
 2020-06-18 Chad Louwerse, DMA monograph. Supervisor: Dr. Catherine Nolan, Music, UWO.
 2020-06-12 Derek Gillies, PhD Thesis Exam. Supervisor: Dr. Aaron Fenster, Medical Biophysics, UWO.
 2019-10-03 Xingxing Liu, PhD Thesis Exam. Super: Dr. Jun Yang, Mech & Materials Eng, UWO.
 2018-08-20 Kyle Taruc, MSc Thesis Exam. Supervisor: Dr. Bryan Heit, MicroImm, UWO.
 2017-07-18 Changqing Gong, PhD Thesis Exam. Super: Dr. Wenxing Zhou, Civil & Env Eng, UWO

Classroom Teaching Activities:*Lectures and Courses of Instruction:*

- 2023/24 MicroImm 3300B – 3rd year Introduction to Immunology
- Course Coordinator: Ongoing updates of the course, including significant update of topics covered. Lecture on science careers added.
 - 18 lecture hours. Ongoing revision of materials. Class size = 110
- MicroImm 3620G – 3rd year Immunology Lab Course
- 8 hrs. Instruction on mouse handling and vaccine experiments.
- MicroImm 4970E – 4th year Honors Thesis Course
- Student thesis supervisor – 2 students
- Medicine 5116 – Medical school course in Immunology
- 4 1hr lectures “Adaptive Immunity”. Class size =150
- MicroImm 9100A – Graduate Scientific Communication
- 1 2hr lecture – Class size ~15
- MedBiophy 9518B – Graduate Molecular Imaging Course
- 1 2hr lecture “In vivo Microscopy”. Class size =8
-
- 2022/23 MicroImm 3300B – 3rd year Introduction to Immunology
- Course Coordinator: Ongoing updates of the course, including significant update of topics covered
 - 17 lecture hours. Ongoing revision of materials. Class size = 150
- MicroImm 3620G – 3rd year Immunology Lab Course
- 8 hrs. Instruction on mouse handling and vaccine experiments.
- MicroImm 4970E – 4th year Honors Thesis Course
- Student thesis supervisor – 2 students
- MedBiophy 9518B – Graduate Molecular Imaging Course
- 1 2hr lecture “In vivo Microscopy”. Class size =8
- Medicine 5116 – Medical school course in Immunology
- 4 1hr lectures “Adaptive Immunity”. Class size =150
- MicroImm 9100A – Graduate Scientific Communication
- 1 2hr lecture – Class size ~15
-
- 2021/22 MicroImm 3300B – 3rd year Introduction to Immunology
- Course Coordinator: Ongoing updates of the course, including moves to short answer type exam questions.
 - 17 lecture hours. Ongoing revision of materials. Class size = 184
- MicroImm 4970E – 4th year Honors Thesis Course
- Student thesis supervisor – 1 student
- MedBiophy 9518B – Graduate Molecular Imaging Course
- 1 2hr lecture “In vivo Microscopy”. Class size =5
- MedSci - 4th year capstone course for IMS program
- 1 2hr lecture “Vaccine Medicine”. Class size =50
- Medicine 5116 – Medical school course in Immunology
- 4 1hr lectures “Adaptive Immunity”. Class size =150
- MicroImm 9100A – Graduate Scientific Communication
- 1 2 lecture – Class size ~15
-
- 2020/21 MicroImm 3300B – 3rd year Introduction to Immunology
- Course Coordinator: Considerable reorganization and updating of the course. Shift to online instruction and exams due to COVID-19 pandemic.
 - 17 lecture hours. Ongoing revision of materials. Class size = 158
- MicroImm 4970E – 4th year Honors Thesis Course
- Student thesis supervisor – 1 student
- MicroImm 9100A – Graduate Scientific Communication

- 2 lecture hours – Class size ~15
 - MedBiophy 9518B – Graduate Molecular Imaging Course
 - 1 2hr lecture “In vivo Microscopy”. Class size =5
 - Medicine 5116 – Medical school course in Immunology
 - 1 1hr lecture “Adaptive Immunity”. Class size =150
- 2019/20
- Microlmm 3300B – 3rd year Introduction to Immunology
 - Course Coordinator: Considerable reorganization and updating of the course. Shift to online instruction and exams due to COVID-19 pandemic.
 - 15 lecture hours. Ongoing revision of materials. Class size = 158
 - Microlmm 4970E – 4th year Honors Thesis Course
 - Course Coordinator and 1 lecture. Considerable organization shifts to deal with pandemic.
 - Student thesis supervisor – 2 students
 - Microlmm 9100A – Graduate Scientific Communication
 - 2 lecture hours – Topic: “Scientific Posters”. Class size ~15
 - MedBiophys 9518B – Graduate Molecular Imaging Course
 - 1 2hr lecture “In vivo Microscopy”. Class size =5
 - Medicine 5116 – Medical school course in Immunology
 - 1 1hr lecture “Adaptive Immunity”. Class size =150
- 2018/19
- Microlmm 3300B – 3rd year Introduction to Immunology
 - 12 lecture hours. Ongoing revision of materials. Class size = 158
 - Microlmm 4970E – 4th year Honors Thesis Course
 - Course Coordinator and 2 lectures – “Introduction” and “Scientific Writing”
 - Microlmm 9100A – Graduate Scientific Communication
 - 2 lecture hours – Topic: “Scientific Posters”. Class size ~15
 - MedBiophys 9518B – Graduate Molecular Imaging Course
 - 1 2hr lecture “In vivo Microscopy”. Class size =5
 - Medicine 5116 – Medical school course in Immunology
 - 1 2hr lecture “Adaptive Immunity”. Class size =150
- 2017/18
- Microlmm 3300B – 3rd year Introduction to Immunology
 - 12 lecture hours. Ongoing revision of materials. Class size = 150
 - Microlmm 4970E – 4th year Honors Thesis Course
 - Course Coordinator and 2 lectures – “Introduction” and “Scientific Writing”
 - Student thesis supervisor – 2 students
 - Microlmm 9100A – Graduate Scientific Communication
 - 2 lecture hours – Topic: “Scientific Posters”. Class size ~15
 - MedBiophys 9518B – Graduate Molecular Imaging Course
 - 1 2hr lecture “In vivo Microscopy”. Class size =5
- 2016/17
- Microlmm 3300B – 3rd year Introduction to Immunology
 - 12 lecture hours. Ongoing revision of materials. Class size = 161
 - Microlmm 4970E – 4th year Honors Thesis Course
 - Course Coordinator and 2 lectures – “Introduction” and “Scientific Writing”
 - Student thesis supervisor – 1 student
 - Microlmm 9100A – Graduate Scientific Communication
 - 2 lecture hours – Topic: “Scientific Posters”. Class size ~15
 - MedBiophys 9518B – Graduate Molecular Imaging Course
 - 1 2hr lecture “In vivo Microscopy”. Class size =8
- 2015/16
- Microlmm 3300B – 3rd year Introduction to Immunology
 - 12 lecture hours. Ongoing revision of materials. Class size = 154
 - Microlmm 4970E – 4th year Honors Thesis Course
 - Course Coordinator and 2 lectures – “Introduction” and “Scientific Writing”

- Student thesis supervisor – 1 student
- Microlmm 9100A – Graduate Scientific Communication
- 2 lecture hours – Topic: "Scientific Posters". Class size ~15
- MedBiophys 9518B – Graduate Molecular Imaging Course
- 1 2hr lecture "In vivo Microscopy". Class size =5
- 2014/15 Microlmm 3300B – 3rd year Introduction to Immunology
- 12 lecture hours. Major revision and expansion of materials. Class size = 155
- Microlmm 4970E – 4th year Honors Thesis Course
- Course Coordinator and 2 lectures – "Introduction" and "Scientific Writing"
 - Student thesis supervisor – 2 students
- Microlmm 9100A – Graduate Scientific Communication
- 2 lecture hours – Topic: "Scientific Posters". Class size ~15
- MedBiophys 9518B – Graduate Molecular Imaging Course
- 1 2hr lecture "In vivo Microscopy". Class size =5
- 2013/14 Microlmm 3300A – 3rd year Introduction to Immunology
- 8 lecture hours. Ongoing revision of materials. Class size = 218
- Microlmm 4970E – 4th year Honors Thesis Course
- Student thesis supervisor – 1 student
- Microlmm 9100A – Graduate Scientific Communication
- 2 lecture hours – Topic: "Scientific Posters". Class size ~15
- MedBiophys 9518B – Graduate Molecular Imaging Course
- 1 2hr lecture "In vivo Microscopy". Class size =7
- 2012/13 Microlmm 3300A – 3rd year Introduction to Immunology
- 8 lecture hours. Ongoing revision of materials. Class size = 216
- Microlmm 4970E – 4th year Honors thesis course
- Student thesis supervisor – 1 student
- Microlmm 9100A – Graduate Scientific Communication
- 2 lecture hours – Topic: "Scientific Posters". Class size ~15
- 2011/12 Microlmm 3300A – 3rd year Introduction to Immunology
- 8 lecture hours. Complete redesign of materials. Class size = 246

Research Direction:

Our research focusses on interactions between B cells and T cells and how they direct immune and inflammatory responses. We have developed and assembled model antigen systems and models of anti-myelin autoimmune disease to be able to directly visualize these interactions and follow their consequences.

One major research direction investigates interactions between antigen-specific B and T cells that dictate the quality of the antibody response to a given antigen. A second major research direction investigates the pathogenic contributions of B cells that accumulate in the chronically inflamed Central Nervous System in autoimmunity.

Research Funding History:*Current Funding:*

- 2024-05 to 2025-04 Multiple Sclerosis Society of Canada: Catalyst Research Grant
Uncovering MS-relevant cell-specific gene regulatory mechanisms in immune cells
PI: Shooshtari, Co-PI: Kerfoot Value: \$50,000 CAD
- 2024-02 to 2025-01 Schulich School of Medicine & Dentistry Competitive Infrastructure Support
Replacement of essential infrastructure to support genotyping and cloning.
PI: Kerfoot, Co-App: McCormick Value: \$14,000 CAD
- 2024-05 to 2025-04 Natural Sciences & Engineering Research Council of Canada Research Tools and Instruments Grant
From Blurry to Brilliant: Elevating Microscopy Capabilities for Pioneering Scientific Discoveries.
PI: Heit Co-App: Kerfoot, Erdemci-Tandogan, Dikeakos, Heinrichs
Value: \$150,000 CAD
- 2023-02 to 2025-02 Zenas BioPharma, Non-competitive Industry Funding
Interactions between T cells and B cells as a potential mechanism for obexelimab to modify antigen-driven immune responses.
PI: Kerfoot Value: \$140,000 CAD
- 2021-04 to 2026-03 Canadian Institutes of Health Research Project Grant
Defining novel, non-classical roles for tissue-infiltrating B cells in chronic CNS autoimmunity
PI: Kerfoot Value: \$856,800 CAD
- 2019-12 to 2024-11 Canadian Institutes of Health Research Team Grant
Canadian Sepsis Research Network: Improving Care Before, During and After Sepsis.
PIs: Fox-Robichaud (nominated) and 23 others, Co-Apps: Kerfoot and 95 others,
Knowledge Users: 8. Value: \$5,700,000 CAD
(Kerfoot receives no funds)
- 2019-04 to 2025-03 Natural Sciences & Engineering Research Council of Canada Discovery Grant
Identifying mechanisms and determinants of T cell control over B cell fate choice in the germinal centre response.
PI: Kerfoot Value: \$192,000 CAD

Past Funding:

- 2019-04 to 2024-03 Western BrainsCAN. Accelerator Stimulus Grant.
Developing behavioral testing and MR imaging to evaluate cognitive impairment in a mouse model of CNS autoimmunity.
PI: Kerfoot, Co-App: Morrow, Menon, Beraldo Value: \$57, 270 CAD

- 2020-07 to 2023-06 Multiple Sclerosis Society of Canada: Discovery Research Grant
Defining the role of unconventionally activated meningeal B cells in CNS autoimmune inflammation.
PI: Kerfoot Value: \$292,608 CAD
- 2020-04 to 2021-03 Natural Sciences & Engineering Research Council of Canada. Research Tools and Instruments Grant (ranked 2/114)
Upgrades to an advanced multiphoton microscope with unique equipment to improve tissue access for intravital imaging and improved image stability
PI: Kerfoot, Co-App: McCormick, Ronald, Seguin Value: \$105,961 CAD
- 2015-07 to 2020-06 Canadian Institutes of Health Research Transitional Open Operating Grant
Initiating and maintaining central nervous system autoimmunity through interactions between myelin-reactive T and B cells.
PI: Kerfoot Value: \$726,200 CAD
- 2014-09 to 2017-08 Western University Research and Development. LRTGTF Novel Mouse Grant
NFAT Reporter Mouse
PI: Kerfoot Value: \$4,000 CAD
- 2013-10 to 2017-09 Schulich School of Medicine and Dentistry (UWO). Collaborative Research Seed Grants
Development of a novel B cell-based biomarker for Multiple Sclerosis
PI: Kerfoot, Co-App: Morrow and Kremenchutzky. Value: \$25,249 CAD
- 2011-09 to 2014-08 Multiple Sclerosis Society of Canada and the Multiple Sclerosis Scientific Research Foundation endMS Transitional Career Development Award
(faculty portion of the Garrett Herman endMS Research and Training Network Transitional Career Development Award, see above Honors and Awards)
Identification of Cellular Interactions Through Which B Cells Drive Central Nervous System Autoimmune Disease In Vivo.
PI: Kerfoot Value: \$360,000 CAD
- 2012-07 to 2015-06 Multiple Sclerosis Society of Canada. Biomedical Research Operating Grant
Characterization of the pathogenic mechanisms and potential as therapeutic targets of antigen experienced B cells in chronic central nervous system autoimmunity.
PI: Kerfoot Value: \$271,450 CAD
- 2013-10 to 2014-09 Canadian Foundation for Innovation. Leaders Opportunity Fund.
Infrastructure for molecular to whole-animal analysis of inflammation, infection and immune function.
PI: Heit Co-PI: Kerfoot and Dikeakos Value: \$499,937 CAD
- 2013-03 to 2014-02 University of Western Ontario. Western Strategic Support for CIHR Success.
Development of a novel murine model of multiple sclerosis for investigating B cell biology in promoting autoimmune disease.
PI: Kerfoot Value: \$11,832 CAD
- 2012-04 to 2013-03 University of Western Ontario. Academic Development Fund.
Genotyping, Molecular and Chromatin Biology Support Core Facility.
PI: Kerfoot Value: \$79,849 CAD
- 2006-07 to 2007 06 American Academy of Allergy, Asthma, and Immunology. Astellas Pharma Allergic Skin Disease Research Award.
Contribution of T cell independent responses to the later initiation pathway.
PI: Kerfoot Value: \$25,000 USD

Publications:

Authors under my direct supervision are underlined.

Peer-Reviewed Journal Publications:

- 40) Mirakmahaleh RT, Morin F, Zhang Y, Bourhoven L, Béland LC, Zhou Q, Jaworski J, Park A, Dominguez JM, Corbeil J, Flanagan E, Pittock S, Laroche C, **Kerfoot S**, and Vallières L. (2024) Turncoat antibodies unmasked in a model of autoimmune demyelination: from biology to therapy. *Submitted*.
• *Role: research consultation; provided reagents; lab generated data that guided research direction but not included in final manuscript.*
- 39) Tesfagiorgis Y*, Kemal EA*, Craig HC, Parham KA, and **Kerfoot SM**. (2024) Systemic administration of anti-CD20 indirectly reduces B cells in the inflamed meninges in a chronic model of central nervous system autoimmunity. *Journal of Neuroimmunology* 387: 578267.
* *authors contributed equally*
• *Role: Corresponding Author; research guidance; supervision of indicated trainees and personnel; help with writing and editing.*
- 38) Sanchez-Pupo RE, Finch GA, Johnston DE, Craig H, Abdo R, Barr K, **Kerfoot S**, Dagnino L, and Penuela S. (2024) Global Pannexin 1-deletion increases tumor-infiltrating lymphocytes in the BRAF/Pten mouse melanoma model. *Molecular Oncology*: 18(4): 969-987
• *Role: research guidance; supervision of indicated personnel; data for 1 figure generated in lab*
- 37) Shin AE, Tesfagiorgis Y, Larsen F, Derouet M, Zeng PYF, Good HJ, Zhang L, Rubinstein MR, Han YW, **Kerfoot SM**, Nicholas AC, Hayakawa Y, Howlett CJ, Wang TC, and Asfaha S. (2023) F4/80⁺Ly6C^{high} macrophages initiate tumorigenesis in inflammation-associated cancer. *Gastroenterology* 164(4):593-609.e13
• *Role: research guidance; supervision of indicated trainee; data for 2 figures generated in lab*
- 36) Parham KA, Tan XXS, Morelli DM, Chowdhury L, Craig HC, and **Kerfoot SM**. (2022) Pre-germinal center interactions with T cells are natural checkpoints to limit autoimmune B cell responses. *J Immunol* 209(9): 1703-12
• *Role: Corresponding Author; research guidance; supervision of indicated trainees and personnel; help with writing and editing.*
- 35) Tuffs SW, Goncheva MI, Xu SX, Craig HC, Kasper KJ, Choi J, Flanagan RS, **Kerfoot SM**, Heinrichs DE, and McCormick JK. (2022) Superantigens promote *Staphylococcus aureus* bloodstream infection by eliciting pathogenic interferon-gamma production. *PNAS*: 119 (8) e2115987119
• *Role: research guidance; supervision of indicated personnel; data for 1 figure generated in lab*
- 34) Al, KF, Craven LJ, Gibbons S, Parvathy SN, Wing AC, Graf C, Parham KP, **Kerfoot SM**, Wilcox H, Burton JP, Kremenutzky M, Morrow SA, Casserly C, Meddings JC, Sharma M, and Silverman MS. (2022) Fecal microbiota transplantation is safe and tolerable in patients with multiple sclerosis: A pilot randomized controlled trial. *Multiple Sclerosis Journal - Experimental, Translational and Clinical* 8: 20552173221086664.
• *Role: research guidance; supervision of indicated personnel; data for 1 figure generated in lab*
- 33) Lancien, M, Bienvenu G, Salle S, Gueno L, Feyeux M, Merieau E, Remy S, Even A, Moreau A, Molle A, Fourgeux C, Coulon F, Beriou G, Bouchet-Delbos L, Chiffolleau E, Kirstetter P, Chan S, **Kerfoot SM**, Rahiman SA, Simone VD, Matteoli G, Boncompain G, Perez F, Josien R, Poschmann J, Cuturi MC, and Louvet C. (2021) Dendritic Cells Require TMEM176A/B Ion Channels for Optimal MHC Class II Antigen Presentation to Naive CD4⁺ T Cells. *Journal of Immunology* 207: 421–435.
• *Role: research guidance; generated and provided essential reagents for experiments.*

- 32) Laramée AS, Raczkowski HL, Shao P, Batista CR, Shukla D, Xu LS, Haeryfar SMM, Tesfagiorgis Y, **Kerfoot SM** and DeKoter RP (2020). Opposing roles for the related ETS-family transcription factors Spi-B and Spi-C in regulating B cell differentiation and function. *Frontiers in Immunology*; 11:841
 - Role: supervision of indicated personnel; data for 1 figure generated in lab
- 31) Singh B, Summers KL, and **Kerfoot SM**. (2019) Novel Regulatory Th17 cells and Regulatory B cells in Modulating Autoimmune Diseases. *Cellular Immunology*; 339:29-32.
 - Role: co-authored manuscript; wrote several sections and editing.
- 30) Haberman A, Gonzalez D, Wong P, Zhang T, and **Kerfoot SM**. (2019) Germinal Center B cell initiation, GC maturation, and the coevolution of its stromal cell niches. *Immunological Reviews*; 288; 10-27.
 - Role: co-authored manuscript; wrote several sections and editing.
- 29) Jain RW, Parham KA, Tesfagiorgis Y, Craig HC, Romanchik E, and **Kerfoot SM**. (2018) Autoreactive, low-affinity T cells preferentially drive differentiation of short-lived memory B cells at the expense of germinal center maintenance. *Cell Reports*; 25(12); 3342-3355.
 - Role: Corresponding Author; research guidance; supervision of indicated trainees and personnel; help with writing and editing.
- 28) Gonzalez DG, Cote CM, Patel JR, Smith CB, Zhang Y, Nickerson KM, Zhang T, **Kerfoot SM**, and Haberman AM. (2018) Non-redundant roles of IL-21 and IL-4 in the phased initiation of germinal center B cells and subsequent self-renewal transitions. *Journal of Immunology*; 201(12); 3569-3579.
 - Role: Generated preliminary data that guided study development.
- 27) Whittaker Hawkins R, Patenaude A, Dumas A, Jain R, Tesfagiorgis Y, **Kerfoot S**, Matsui T, Gunzer M, Poubelle P, Larochelle C, Pelletier M, and Vallières L. (2017) ICAM1+ neutrophils promote chronic inflammation via ASPRV1 in B cell-dependent autoimmune encephalomyelitis. *JCI Insight*; 2(23); e96882.
 - Role: research guidance; supervised indicated trainees; generated data associated with 1 figure; generated and provided essential reagents for experiments.
- 26) Tesfagiorgis Y, Zhu SL, Jain R, and **Kerfoot SM**. (2017) Activated B cells participating in the anti-myelin response are excluded from the inflamed central nervous system in a model of autoimmunity that allows for B cell recognition of autoantigen. *Journal of Immunology*; 199: 449-457.
 - Role: Corresponding Author; research guidance; supervision of indicated trainees and personnel; help with writing and editing.
- 25) Zhang TT, Gonzalez DG, Cote CM, **Kerfoot SM**, Deng S, Chen Y, Magari M, and Haberman AM. (2017) Germinal center B cell development has distinctly regulated stages completed by disengagement from T cell help. *eLife*; 6: e19552
 - Role: generated preliminary data that guided study development.
- 24) Rangachari M, **Kerfoot SM**, Arbour N, and Alvarez J. (2017) Editorial: Lymphocytes in MS and EAE: more than a CD4+ world. *Frontiers in Immunology*; 8:133.
 - Role: co-authored manuscript; wrote several sections and editing.
- 23) Jain RW, Dang AK, and **Kerfoot SM**. (2016) Simple and effective production and purification of mouse Myelin Oligodendrocyte Glycoprotein for Experimental Autoimmune Encephalomyelitis. *Journal of Visualized Experiments* (116) e54727, doi:10.3791/54727
 - Role: Corresponding Author; research guidance; supervision of indicated trainees and personnel; help with writing and editing.
- 22) Dang AK, Tesfagiorgis Y, Jain RW, Craig HC, and **Kerfoot SM**. (2015) Meningeal infiltration of the spinal cord by non-classically activated B cells in associated with chronic disease course in a spontaneous B cell-dependent model of CNS autoimmune disease. *Frontiers in Immunology*; 6: 470.
 - Role: Corresponding Author; research guidance; supervision of indicated trainees and personnel; help with writing and editing.

- 21) **Dang AK, Jain RW, Craig HC, and Kerfoot SM.** (2015) B cell recognition of myelin oligodendrocyte glycoprotein autoantigen depends on immunization with protein rather than short peptide, while B cell invasion of the CNS in autoimmunity does not. *Journal of Neuroimmunology*; 278C: 73-84.
 - *Role: Corresponding Author; research guidance; supervision of indicated trainees and personnel; help with writing and editing.*
- 20) Yamamoto N, **Kerfoot SM**, Hutchinson AT, Delacruz CS, Nakazawa N, Szczepanik M, Majewska-Szczepanik M, Nazimek K, Ohana N, Bryniarski K, Mori T, Muramatsu M, Kanemitsu K, Askenase PW. (2015) Expression of activation-induced cytidine deaminase enhances the clearance of pneumococcal pneumonia: evidence of a subpopulation of protective anti-pneumococcal B1a B cells. *Immunology*; 147(1): 97-113.
 - *Role: Generated preliminary data that guided study development; contributed to experiments shown in 1 figure.*
- 19) Askenase PW, Bryniarski K, Paliwal V, Redegeld F, Groot Kormelink T, **Kerfoot S**, Hutchinson AT, van Loveren H, Campos R, Itakura A, Majewska-Szczepanik M, Yamamoto N, Nazimek K, Szczepanik M, Ptak W. (2015) A subset of AID-dependent B-1a cells initiates hypersensitivity and pneumococcal pneumonia resistance. *Annals of the New York Academy of Sciences*; 1362(1): 200-214.
 - *Role: Generated preliminary data that guided study development; contributed to experiments shown in 1 figure.*
- 18) **Kerfoot SM**, Yaari G, Patel JR, Johnson KL, Gonzalez DG, Kleinstein SH, and Haberman AM. (2011) Germinal Center B cell and T Follicular Helper cell development initiates in the interfollicular zone. *Immunity*; 34(6): 947-960.
 - *This article was accompanied by a Preview: King C. A fine romance: T follicular helper cells and B cells. *Immunity*, 2011; 34(6):827-9.*
 - *This article has been cited more than 560 times to date (Google Scholar, 2024-02)*
 - *Role: 1st author; most writing and editing; generated most experimental data.*
- 17) Askenase PW, Majewska-Szczepanik M, **Kerfoot S**, and Szczepanik M. (2011) Participation of iNKT cells in the early and late components of Tc1 mediated DNFB contact sensitivity: Cooperative role of $\gamma\delta$ -T cells. *Scandinavian Journal of Immunology*; 73(5):465-477.
 - *Role: Generated preliminary data that guided study development;*
- 16) Hauser AE, **Kerfoot SM**, and Haberman AM. (2010) Cellular choreography in the germinal center: new visions from in vivo imaging. *Seminars in Immunopathology*; 32(3): 239-255
 - *Role: co-authored manuscript; contributed to sections and editing.*
- 15) **Kerfoot SM**, Szczepanik M, Tung JW, and Askenase PW. (2008) Identification of Initiator B cells, a novel subset of activation-induced deaminase-dependent B-1-like cells that mediate initiation of contact sensitivity. *Journal of Immunology*; 181(3):1717-1727.
 - *Role: 1st author; most writing and editing; generated most experimental data.*
- 14) **Kerfoot SM**, Andonegui G, Bonder C. and Liu L. (2008) Exogenous stromal cell-derived factor-1 induces modest leukocyte recruitment in vivo. *AJP: Heart and Circulatory Physiology*; 294: H2524-H2534.
 - *Role: research guidance, editing.*
- 13) Pedra JHF, Mattner J, Tao J, **Kerfoot SM**, Davis RJ, Flavell RA, Askenase PW, Yin Z, and Fikrig E. (2008) c-Jun NH2-terminal kinase 2 inhibits gamma interferon production during *Anaplasma phagocytophilum* infection. *Infection and Immunity*; 76(1): 308-316.
 - *Role: contributed experimental data associated with 1 figure.*

- 12) **Kerfoot SM**, McRae K, Lam F, McAvoy EF, Clark S, Brain M, Lalor PF, Adams DH and Kubes P. (2008) A novel mechanism of senescent erythrocyte capture from the circulation in humans. *Experimental Hematology*; 36(2): 111-118.
 - *Role: 1st author; most writing and editing; generated most experimental data.*
- 11) **Kerfoot SM***, Norman MU, Lapointe BM, Bonder CS, Zbytnuik L, and Kubes P. (2006) Re-evaluation of P-selectin and α_4 -integrin as targets for the treatment of experimental autoimmune encephalomyelitis. *Journal of Immunology*; 176(10): 6225-6234.

**Kerfoot SM is corresponding author*

 - *This article has been cited more than 105 times to date (Google Scholar, 2024-02).*
 - *Role: Corresponding and 1st Author; most writing and editing; generated most experimental data.*
- 10) **Kerfoot SM**, D'Mello C, Nguyen H, Ajuebor MN, Kubes P, Le T, Swain MG. (2006) TNF α -secreting monocytes are recruited into the brain of cholestatic mice. *Hepatology*; 43(1): 154-162.
 - *This article has been cited more than 120 times to date (Google Scholar, 2024-02).*
 - *Role: 1st author; contributed some writing and editing; generated half experimental data*
- 9) **Kerfoot SM** and Kubes P. (2005) Local coordination verses systemic dysregulation: Complexities in leukocyte recruitment revealed by local and systemic activation of TLR4 in vivo. *Journal of Leukocyte Biology*; 77: 862-867.
 - *Role: co-authored manuscript; contributed to sections and editing.*
- 8) Andonegui G, **Kerfoot SM**, McNagny K, Ebbert KV, Patel KD, and Kubes P. (2005) Platelets express functional toll-like receptor-4 TLR4. *Blood*; 106(7): 2417-2423.
 - *This article has been cited more than 600 times to date (Google Scholar, 2024-02).*
 - *Role: co-authored manuscript; editing; contributed to experiments in several figures.*
- 7) Khan AI, **Kerfoot SM**, Heit B, Liu L, Andonegui G, Ruffell B, Johnson P, and Kubes P. (2004) Role of CD44 and hyaluronan in neutrophil recruitment. *Journal of Immunology*; 173(12): 7594-7601.
 - *This article has been cited more than 240 times to date (Google Scholar, 2024-02).*
- 6) **Kerfoot SM**, Long EM, Hickey MJ, Andonegui G, Lapointe BM, Zanardo RCO, Bonder C, James WG, Robbins SM, and Kubes P. (2004) TLR4 contributes to disease-inducing mechanisms resulting in central nervous system autoimmune disease. *Journal of Immunology*; 173(11): 7070-7077.
 - *This article was the subject of the following commentary: Racke MK et.al. PTX cruiser: driving autoimmunity via TLR4. *TRENDS in Immunology* 2005; 26(6): 289-91.*
 - *This article has been cited more than 260 times to date (Google Scholar, 2024-02).*
 - *Role: 1st author; most writing and editing; generated most experimental data.*
- 5) **Kerfoot SM**, Lord SE, Bell RB, Gill V, Robbins SM, and Kubes P. (2003) Human fractalkine mediates leukocyte adhesion but not capture under physiological shear conditions; a mechanism for selective monocyte recruitment. *European Journal of Immunology*; 33(3): 729-739.
 - *This article has been cited more than 60 times to date (Google Scholar, 2024-02).*
 - *Role: 1st author; most writing and editing; generated most experimental data.*
- 4) **Kerfoot SM** and Kubes P. (2002) Overlapping roles of P-selectin and α_4 -integrin to recruit leukocytes to the CNS in experimental autoimmune encephalomyelitis. *Journal of Immunology*; 169(2): 1000-1006.
 - *This article has been cited more than 250 times to date (Google Scholar, 2024-02).*
 - *Role: 1st author; most writing and editing; generated most experimental data.*
- 3) Kubes P. and **Kerfoot SM**. (2001) Leukocyte recruitment in the microcirculation: the rolling paradigm revisited. *News in Physiological Science*; 16: 76-80.
 - *This article has been cited more than 110 times to date (Google Scholar, 2024-02).*
 - *Role: co-authored manuscript; contributed to sections and editing.*

- 2) **Kerfoot SM**, Raharjo E, Ho M, Kaur J, Serirom S, McCafferty DM, Burns AR, Patel KD, Kubes P. (2001) Exclusive neutrophil recruitment with Oncostatin M in a human system. *American Journal of Pathology*; 159(4): 1531-1539.
- *This article has been cited more than 50 times to date (Google Scholar, 2024-02).*
 - *Role: 1st author; most writing and editing; generated most experimental data.*
- 1) Fritzler MJ, **Kerfoot SM**, Feasby TE, Zochodne DW, Westendorf JM, Dalmau JO, and Chan EKL. (2000) Autoantibodies from patients with idiopathic ataxia bind to M-phase phosphoprotein-1 (MPP1). *Journal of Investigative Medicine*; 48(1): 28-39.
- *Role: generated data associated with multiple figures.*

Presentations at Professional Meetings/Workshops and Meetings Attended:

- 65) Kemal EA*, Tesfagiorgis Y*, Craig HC, Parham KA, and **Kerfoot SM**. Systemic administration of anti-CD20 indirectly reduces B cells in the inflamed meninges in a chronic model of central nervous system autoimmunity. *2023 endMS Conference Toronto ON, Canada. 2023-12-03.*
- 64) Morelli D. and **Kerfoot SM**. Evaluating different B cell subsets ability to acquire and present antigen. *2023 endMS Conference Toronto ON, Canada. 2023-12-03.*
- 63) Chen Y, Parham K, and **Kerfoot SM**. Investigating the reduced responsiveness of autoreactive B cells in the periphery. *Annual Infection and Immunity Research Forum. London, ON, Canada. 2023-11-10.*
- 62) Morelli D. and **Kerfoot SM**. Evaluating different B cell subsets ability to acquire and present antigen. *Annual Infection and Immunity Research Forum. London, ON, Canada. 2023-11-10.*
- *Awarded 1st place poster prize.*
- 61) Tesfagiorgis Y, Kemal EA, Craig HC, Parham KA, and **Kerfoot SM**. Systemic administration of anti-CD20 indirectly reduces B cells in the inflamed meninges in a chronic model of central nervous system autoimmunity. *American Association of Immunology 2023. Washington DC, USA. 2023-05-13.*
- *This abstract selected for a platform oral and poster presentations.*
- 60) Tesfagiorgis Y and **Kerfoot SM**. Characterizing a unique B cell subset in an animal model of Multiple Sclerosis. *CSHRF 2020. Winnipeg, MB, Canada. 2020-06-09.*
- *Attendance by invitation only and only 5% of PhD candidates are invited. Received an Honourable Mention.*
- 59) Parham KA, Craig HC, Tan X and **Kerfoot SM**. Pre-germinal center interactions between anti-MOG B and T cells are short-lived and distinct from those in response to a foreign antigen. *endMS Conference. Calgary, AB, Canada. 2019-12-08.*
- *This abstract selected for a platform oral presentation.*
- 58) Tesfagiorgis Y and **Kerfoot SM**. Meningeal B cells: their phenotype and susceptibility to therapeutic depletion. *endMS Conference. Calgary, AB, Canada. 2019-12-08.*
- *Awarded a poster prize.*
- 57) Tesfagiorgis Y and **Kerfoot SM**. (2019) B cell aggregates, their susceptibility to therapeutic depletion. *The 14th Annual Infection and Immunity Research Forum. London, ON, Canada. 2019-11-08.*
- 56) Jain RW, Parham AK, Craig HC, Tesfagiorgis Y, Romanchik E, and **Kerfoot SM**. Autoreactive T cells preferentially drive differentiation of non-responsive memory B cells at the expense of germinal center maintenance. *UAlberta MS Centre Research Symposium, Edmonton, Alberta. 2019-05-03*
- 55) Tesfagiorgis Y, Jain RW, Parham KA, and **Kerfoot SM**. (2019) Does manipulation T cell affinity to myelin antigen result in differences in CNS autoimmunity. *Canadian Society of Immunology, Banff, Ab, Canada. 2019-04-12*
- *This abstract selected for a platform oral presentation.*
 - *Awarded a poster prize.*
- 54) Jain RW, Parham AK, Craig HC, Tesfagiorgis Y, Romanchik E, and **Kerfoot SM**. Autoreactive T cells preferentially drive differentiation of non-responsive memory B cells at the expense of germinal center maintenance. *Canadian Society of Immunology 2019, Banff Conference Center, Banff, Alberta. 2019-04-12*
- 53) Tesfagiorgis Y, Zhu SL and **Kerfoot SM** B cell aggregates within the inflamed CNS: Their phenotype and susceptibility to therapeutic depletion. *London Health Research Day, London Convention Center, London, Ontario, Canada. 2019-04-30.*
- 52) Parham KA, Craig HC, Jain RW and **Kerfoot SM**. Early interactions between anti-MOG pre-germinal center B and T cells are different to those in response to a foreign antigen. *London Health Research Day, London Convention Center, London, Ontario, Canada. 2019-04-30*

- 51) Parham KA, Craig HC, Jain RW and **Kerfoot SM**. Anti-MOG pre-germinal center B and T cell interactions are short-lived and distinct from those in response to a foreign antigen. *Keystone Symposia – B cell-T Cell Interactions, 2019, Keystone Resort, Keystone, Colorado, USA*. 2019-02-10
- 50) Tesfagiorgis Y, and **Kerfoot SM**. B cell aggregates, their phenotype within the inflamed CNS, and their susceptibility to therapeutic depletion. *The 13th Annual Infection and Immunity Research Forum, Stratford, Canada*. 2018-10-11.
- *This abstract selected for a platform oral presentation.*
- 49) Jain RW, Parham AK, Craig HC, Tesfagiorgis Y, Romanchik E, and **Kerfoot SM**. Autoreactive T cells preferentially drive differentiation of short-lived memory B cells at the expense of germinal center maintenance. *The 13th Annual Infection and Immunity Research Forum, Stratford, Canada*. 2018-10-11.
- 48) Parham KA, Craig HC and **Kerfoot SM**. Pre-germinal center interactions between anti-myelin B and T cells are short-lived and distinct from those in response to a foreign antigen. *The 13th Annual Infection and Immunity Research Forum, Stratford, Canada*. 2018-10-11.
- *This abstract selected for a platform oral presentation.*
 - *Presentation prize winner.*
- 47) Jain RW, Parham AK, Craig HC, Tesfagiorgis Y, Romanchik E, and **Kerfoot SM**. Autoreactive T cells preferentially drive differentiation of non-responsive memory B cells at the expense of germinal center maintenance. *Keystone Symposia - B cells: Mechanisms in Immunity and Autoimmunity, International Congress Center, Dresden, Germany*. 2018-06-17
- 46) Parham KA, Craig HC and **Kerfoot SM** Autoimmune pre-germinal center B and T cell interactions are short-lived and distinct from those in response to a foreign antigen. *Canadian Society of Immunology 2018, London, ON, Canada*. 2018-05-01.
- *This abstract selected for a platform oral presentation.*
- 45) Tesfagiorgis Y, Zhu S, Jain RW, **Kerfoot SM**. Characterizing B and T cell infiltrates in the inflamed central nervous system of an animal model of multiple Sclerosis. *Canadian Society of Immunology 2018, London, ON, Canada*. 2018-05-01.
- 44) Jain RW, Parham AK, Craig HC, Tesfagiorgis Y, Romanchik E, and **Kerfoot SM**. Autoreactive T cells preferentially drive differentiation of non-responsive memory B cells at the expense of germinal center maintenance. *Canadian Society of Immunology 2018, London, ON, Canada*. 2018-05-01
- 43) Parham KA, Craig HC, Jain RW and **Kerfoot SM**. Characterization of pre-germinal center B and T cell interactions in auto-antigen versus foreign antigen induced immune responses. *London Health Research Day, London Convention Centre, London, ON, Canada* , 2018-05-10
- *This abstract selected for a platform oral presentation.*
- 42) Jain RW, Craig HC, Parham AK, Tesfagiorgis Y, Romanchik E, and **Kerfoot SM**. Autoreactive B cells preferentially differentiate into unresponsive memory B cells during germinal center responses. *London Health Research Day, London Convention Center, London, ON, Canada* , 2018-05-10
- *This abstract selected for a platform oral presentation.*
- 41) Tesfagiorgis Y, Zhu S, Jain RW, **Kerfoot SM**. Activated B Cells Participating in the Anti-Myelin Response Are Excluded from the Inflamed Central Nervous System in a Model of Autoimmunity that Allows for B Cell Recognition of Autoantigen. *London Health Research Day, London Convention Centre, London, ON, Canada* , 2018-05-10
- 40) Jain RW, Drysdale L, Pin CL, Dick F, and **Kerfoot SM**. Reporters for in vivo and in vitro monitoring of NFkB and NFAT signalling. *Cellular and Molecular Imaging Symposium 2018, London, ON*, 2018-05-01.
- 39) Parham KA, Craig HC and **Kerfoot SM** Autoimmune pre-germinal center B and T cell interactions are short-lived and distinct from those in response to a foreign antigen. *Cellular and Molecular Imaging Symposium 2018, London, ON*, 2018-05-01.
- 38) Tesfagiorgis Y, Zhu S, Jain RW, and **Kerfoot SM**. Activated B cells participating in the anti-myelin response are excluded from the inflamed central nervous system in a model of autoimmunity that allows for B cell recognition of auto-antigen. *CNS Research Day, London Ontario*, 2018-04-17 .
- 37) Parham KA, Craig HC, Jain RW, and **Kerfoot SM**. Characterization of pre-germinal center T and B cell interactions in the myelin oligodendrocyte glycoprotein induced autoimmune response. *National MS Society Tykeson Fellows Conference, Denver, United States*. 2017-11-09
- 36) Laramee AS, Batista CR, Haeryfar SMM, **Kerfoot SM**, and DeKoter RP. The related Ets transcription factors Spi-B and Spi-C exert opposing roles in regulating plasma cell differentiation. *2017 Infection and Immunity Research Forum, London, ON*. 10-27-2017

- 35) Tesfagiorgis Y, Zhu S, Jain R, and **Kerfoot SM**. Deciphering the differences between B and T cell recruitment to the inflamed CNS. *2017 Infection and Immunity Research Forum, London, ON*. 10-27-2017
- 34) Parham KA, Jain RW, Walsh K and **Kerfoot SM**. Generation of a novel MOG_{tag} tetramer for detection of myelin oligodendrocyte glycoprotein (MOG) specific B cells. *London Health Research Day 2016, London Convention Centre, London, ON, Canada*. 28-03-2017
- 33) Jain RW, Craig H, Tesfagiorgis Y, Romanchik E, and **Kerfoot SM**. Autoreactive b cells preferentially differentiate into memory b cells during germinal center responses. *London Health Research Day 2017, London Convention Centre, London, ON, Canada*. 28-03-2017.
- 32) Tesfagiorgis Y, Zhu SL, Jain RW, and **Kerfoot SM**. (2017). Activated myelin-specific B cells, contrary to T cells, are excluded from the inflamed CNS in an animal model of central nervous system autoimmunity. *London Health Research Day 2016, London Convention Centre, London, ON, Canada*. 28-03-2017
- 31) Tesfagiorgis Y, Zhu S, and **Kerfoot SM**. B and T cells are fundamentally different in their recruitment to the inflamed CNS. *endMS Conference 2016. Toronto, ON*. Dec. 6-9, 2016
- 30) Parham K, Jain R, and **Kerfoot SM**. Generation of a novel MOG_{tag} tetramer for detection of myelin oligodendrocyte glycoprotein (MOG) specific B cells. *endMS Conference 2016. Toronto, ON*. Dec. 6-9, 2016
- 29) Jain R, Craig H, Romanchik E, Tesfagiorgis Y, and **Kerfoot SM**. Myelin Oligodendrocyte Glycoprotein specific B cells preferentially differentiate into memory B cells during germinal center responses. *endMS Conference 2016. Toronto, ON*. Dec. 6-9, 2016.
 - *This abstract selected for a platform oral presentation.*
- 28) **Kerfoot SM**, Tesfagiorgis Y, Dang AK, Zhu S, and Craig HC. Characterization of the activation history and antigen specificity of B cells in meningeal clusters in Central Nervous System autoimmunity. *AAI Immunology 2016. Seattle, WA*. May 13-17, 2016.
- 27) Tesfagiorgis Y, Dang AK, Craig HC, and **Kerfoot SM**. Characterization of the activation history and antigen specificity of B cells found within meningeal B cell clusters in central nervous system autoimmunity. *Annual meeting of the Canadian Society for Immunology, Ottawa, ON*. April 1-4, 2016
- 26) Jain R, Craig H, Romanchik E, and **Kerfoot SM**. T cells direct B cell fate choices during germinal center responses. *Annual meeting of the Canadian Society for Immunology, Ottawa, ON*. April 1-4, 2016
- 25) Dang AK, Tesfagiorgis Y, Jain RW, and **Kerfoot SM**. B cell recognition of myelin oligodendrocyte glycoprotein autoantigen depends on immunization with protein rather than short peptide, while B cell invasion of the CNS in autoimmunity does not. *2015 Keystone Symposia: Golden anniversary of B cell discovery, Banff, Alberta*. 24-03-201
- 24) Jain R, Dang A, Craig H, Romanchik E, **Kerfoot SM**. Germinal center collapse and differential fate choices of cells in the anti-myelin autoimmune response. *2015 London Health Research Day, London, ON*, 01-04-2015
- 23) Dang AK, and **Kerfoot SM**. Characterizing subsets of activated myelin-specific B cells in a murine model of central nervous system autoimmunity. *2015 London Health Research Day, London, ON*, 01-04-2015
- 22) Jain R, Dang A, Craig H, Romanchik E, and **Kerfoot SM**. Germinal center collapse and differential fate choices of cells in the anti-myelin autoimmune response. *2014 Infection and Immunity Research Forum, London, ON, 2014*. 06-11-2014
- 21) Dang AK, Jain R, Craig H, Romanchik E. **Kerfoot SM**. Formation and early collapse of the autoimmune germinal centre. *2014 Canadian Society for Immunology Meeting, Quebec City QB*. March 6-9, 2014.
- 20) Dang AK, **Kerfoot SM**. 2013 Characterizing subsets of activated myelin-specific B cells in a model of CNS autoimmunity. *2013 endMS conference, Saint-Sauveur, Quebec*, Dec.10-13, 2013.
- 19) Jain R, Heit B, **Kerfoot SM**. Determining the activation state of B and T cells during their interactions at the beginning of immune responses. *2013 Infection and Immunity Research Forum, London, ON*. Nov. 1, 2013
- 18) **Kerfoot SM**, Yaari G, Patel JR, Johnson KL, Gonzalez DG, Kleinstei SH, and Haberman AM. Inter-follicular germinal center B cell and T follicular helper cell development precedes follicular Tfh maintenance. *AAI 2011, San Francisco*. May 13-17, 2011
- 17) **Kerfoot SM**, Gonzales D, Shlomchik MJ, and Haberman AM. Fate decision zones in the early germinal center response. *2010 Annual Meeting of the Canadian Society for Immunology*. April 23-26, 2010.
 - *This abstract selected for a platform oral presentation.*
- 16) **Kerfoot SM**, Shlomchik M, and Haberman AM. Role of FDCs in the organization of nascent germinal centers. *2009 Keystone Symposia: "B cells in Context". Taos, NM*. Feb 24-Mar 1, 2009

- 15) **Kerfoot S.M.**, Szczepanik M., Tung J.W., Herzenberg L.A. and Askenase P.W. Identification of a novel subset of activation induced deaminase (AID)-dependent B-1 cells that mediate initiation of contact sensitivity. *AAI 2007, Miami Beach, FL. May 18-22, 2007.*
- 14) **Kerfoot SM**, Norman M.U. and Kubes P. Critical evaluation of adhesion molecule targeting therapy in murine models of multiple sclerosis. *AAAAI 2006, Miami Beach, FL. March 3-7, 2006.*
 - *This abstract selected for a platform oral presentation.*
 - *Kerfoot SM was awarded the ST*AR Program Scholarship.*
- 13) **Kerfoot S.M.** and Kubes P. Evaluation of the effectiveness of anti-adhesion molecule therapy in the treatment of experimental autoimmune encephalomyelitis. *Soc. Leuko. Biol 2004. Toronto, ON. October 21-23, 2004*
- 12) **Kerfoot S.M.** and Kubes P. Pertussis toxin mediated leukocyte recruitment to the Central Nervous System is dependent on CD14 and TLR4. *EB 2003, San Diego, CA. April 11-15, 2003.*
 - *This abstract selected for a platform oral presentation.*
- 11) Bonder C.S., **Kerfoot S.M.**, Zbytniuk L.D., Weaver C., Bullard D. and Kubes P. T helper (Th) 1 dominated inflammation in a variety of organs recruit both Th1 and Th2 cells via different mechanisms. *FASEB J. 2003; 17(5); A512.7*
- 10) Liu L., Zbytniuk L.D., Andonegui G., Bonder C., **Kerfoot S.M.** and Kubes P. Exogenous SDF-1 α induces leukocyte recruitment in mice. *FASEB J. 2003; 17(5); A667.3*
- 9) **Kerfoot SM**, Zbytniuk L, and Kubes P. P-selectin Does Contribute to α_4 -Integrin Dependent Leukocyte Recruitment to the CNS in Experimental Autoimmune Encephalomyelitis. *2002 Keystone Symposia: "Molecular Mechanisms of Leukocyte Trafficking". Steamboat Springs, CO. April 9-14, 2002.*
 - *This presentation was awarded a travel scholarship for Kerfoot SM.*
- 8) **Kerfoot S.M.** and Kubes P. P-selectin and α_4 -Integrin Together Act to Recruit Leukocytes to the CNS in Experimental Autoimmune Encephalomyelitis. *EB 2002, New Orleans, LA. April 20-24, 2002.*
 - *This abstract selected for a platform oral presentation.*
- 7) **Kerfoot S.M.**, Andonegui G. and Kubes P. Pertussis toxin induces P-selectin dependent recruitment of lymphocytes to the CNS. *EB 2002, New Orleans, LA. April 20-24, 2002.*
 - *This abstract selected for a platform oral presentation.*
- 6) **Kerfoot SM.** and Kubes P. P-selectin and α_4 -integrin together act to recruit leukocytes to the CNS in experimental autoimmune encephalomyelitis. *2001 Emerald Lake Symposium on Asthma and Hypersensitivity, Emerald Lake, BC. Sept. 27-30, 2001.*
 - *This abstract selected for a platform oral presentation.*
- 5) **Kerfoot SM**, Bell R, and Kubes P. Fractalkine recruits monocytes and lymphocytes from whole blood under shear conditions. *2000 MS Society of Canada Symposium, Banff, Alberta. Dec. 2-5, 2000*
- 4) **Kerfoot S.M.**, McCafferty D.M. and Kubes P. Oncostatin M is a proinflammatory mediator specific for P-selectin expression and recruitment of neutrophils. *EB, San Diego, CA. April 15-18, 2000*
- 3) **Kerfoot S.M.** and Kubes P. Fractalkine recruits monocytes, lymphocytes and neutrophils from whole blood under shear conditions. *FASEB J. 2000; 14(4): A705. EB, San Diego, CA. April 15-18, 2000*
- 2) Hickey M.J., Sihota E.G., **Kerfoot S.**, Amrani A., Santamaria P.A. and Kubes P. Roles of leukocyte and parenchyma-associated inducible nitric oxide synthase in modulation of leukocyte recruitment. *FASEB J. 2000; 14(4): A403*
- 1) Fritzler M.J., **Kerfoot S.M.**, Feasby T.E., Zochodne D.W., Westendorf J.M., Dalmau J.O. and Chan E.K.L. Autoantibodies from patients with idiopathic ataxia bind to M-phase phosphoprotein-1 (MMP-1). *In, Autoantigens Autoantibodies Autoimmunity. Vol. 1, Report on the 5th Dresden symposium on Autoantibodies, October 18-21, Dresden, Germany. Conrad K, Humbel R-L, Meurer M, Shoenfeld Y, Tan E.M. (eds). Pabst Scientific Publishers, Lengerich, Germany. P. 617, 2000*