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Protected when completed

Dr. Kimberly Brewer

Correspondence language: English
Sex: Female
Date of Birth: 6/28
Canadian Residency Status: Canadian Citizen
Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

Address

Home

2 Alabaster Way
Halifax Nova Scotia B3P 0E6
Canada

Primary Affiliation (*)

1396 Summer Street
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Telephone

Mobile	1-902-414-1929
Work (*)	1-902-470-6823

Email

Work (*)	brewerk@dal.ca

Dr. Kimberly Brewer

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes	No

Degrees

2012/10 - 2014/11 — Post-doctorate, Postdoctoral Fellow, Medical Physics, Stanford University
Degree Status: Completed

2010/6 - 2012/7 — Post-doctorate, Postodoctorate fellowship, Medical Physics, Immunovaccine Inc.
Degree Status: Completed

Supervisors: Dr. Mohan Karkada, 2010/6 - 2012/7

2005/1 - 2010/5 — Doctorate, Doctor of Philosophy, Medical Physics, Dalhousie University
Degree Status: Completed

Supervisors: Dr. Steven Beyea, 2005/1 - 2010/5

2000/9 - 2005/5 — Bachelor's, Bachelor of Science, Honours, BioPhysics, University of New Brunswick
Degree Status: Completed

Supervisors: Dr. Dennis Tokaryk, 2003/9 - 2004/5

Recognitions

2014/5 — ISMRM Junior Fellow Award (Canadian dollar)
International Society for Magnetic Resonance in Medicine (ISMRM)
Prize / Award
Award given to recognize young researchers at an early stage in their career in MRI

User Profile

Engaged in Clinical Research?: No

Fields of Application: Foundations and Knowledge Acquisition

Disciplines Trained In: Biology and Related Sciences, Physics

Areas of Research: Biomedical Technologies, Cell, Vaccine and Cancer

Research Specialization Keywords: Cancer Vaccines, Cellular Imaging, Functional MRI, High-field Imaging, Immunotherapeutics, Molecular Imaging, MRI, Susceptibility Regions

Research Disciplines: Physics, Biology and Related Sciences

Employment

2016/7	Assistant Professor Cross-Appt Microbiology & Immunology Microbiology & Immunology, Medicine, Dalhousie University
2015/7	Assistant Professor Cross-Appt Physics and Atmospheric Science Physics and Atmospheric Science, Science, Dalhousie University Full-time, Assistant Professor Tenure Status: Non Tenure Track
2015/6	Assistant Professor Diagnostic Radiology Diagnostic Radiology, School of Medicine, Dalhousie University Full-time, Assistant Professor Tenure Status: Non Tenure Track I am appointed as an assistant professor in the Diagnostic Radiology department in the School of Medicine at Dalhousie University with cross-appointment to the department of Physics and Atmospheric Science. I am also a research scientist in diagnostic imaging appointed at Nova Scotia Health Authority and at the IWK Health Centre in Halifax, NS. My position is primarily research-based with additional teaching and supervision of graduate courses/students. The NSHA and IWK have strong research departments and value collaborations between Dalhousie University and the hospital sector in both the basic and clinical sciences. My research program across all three institutions focuses on the development and use of molecular imaging tools and techniques. My cross-appointment in Physics also allows for greater participation in the medical physics program for teaching and graduate student supervision.
2015/4	Staff Scientist Diagnostic Imaging, Research, IWK Health Centre
2015/1	Research Scientist Research Services, QE2 Health Sciences, Nova Scotia Health Authority
2012/10 - 2014/11	Postdoctoral Fellow Radiology, School of Medicine, Stanford University Full-time Tenure Status: Non Tenure Track
2010/6 - 2012/7	Research Scientist/Postdoctoral Fellow Immunovaccine Inc.
2005/1 - 2007/5	Teaching assistant - Undergraduate Physics Lab and Resource Centre Physics, Science, Dalhousie University Part-time Tenure Status: Non Tenure Track
2003/9 - 2004/12	Physics Lab Demonstrator Physics, Science, University of New Brunswick Part-time Tenure Status: Non Tenure Track
2004/5 - 2004/9	Research Assistant (WES Program) Neuroimaging Research Lab, National Research Council of Canada - Institute of Biodiagnostics
2003/5 - 2003/9	Research Assistant (WES Program) Optical Techniques, National Research Council of Canada - Industrial Materials Institute
2002/5 - 2002/9	Research Assistant (WES Program) Optical Techniques, National Research Council of Canada - Industrial Materials Institute

2000/6 - 2002/3	Scientific Facilitator Science East

Affiliations

The primary affiliation is denoted by (*)

2015/6	Associate Member, Beatrice Hunter Cancer Research Institute
2015/5	Assistant Professor, Diagnostic Imaging, Physics & Atmospheric Science, Microbiology & Immunology, Biomedical Engineering, Dalhousie University
(*) 2015/3	Staff Scientist, Diagnostic Imaging, IWK Health Centre
2015/1	Project Coordinator Analysist Research Services, Nova Scotia Health Authority

Research Funding History

Awarded [n=7]

2016/4 - 2021/3
Principal Investigator

Development of Quantitative In Vivo Cellular and Molecular MR Imaging Techniques

Funding Sources:

2016/9 - 2021/8 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - 120,000 (Canadian dollar)
Funding Competitive?: Yes

2016/4 - 2019/3
Co-applicant

BIOTIC: The BIOmedical Translational Imaging Centre - Technology and Platform

Funding Sources:

2015/7 - 2018/6 Brain Canada
Platform Support Grants
Total Funding - 449,829 (Canadian dollar)
Funding Competitive?: Yes

2017/2 - 2019/1
Principal Investigator

Using Molecular Imaging to Evaluate Immunotherapy in an Ovarian Cancer Model

Funding Sources:

2017/2 - 2019/1 Beatrice Hunter Cancer Research Institute (BHCRI)
New Investigator Award
Total Funding - 50,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Marianne Stanford

2017/2 - 2019/1
Co-applicant

Testing & Validation of Pre-Clinical Multispectral SPECT and Simultaneous PET/MRI using Silicon Photomultiplier Technology

Funding Sources:

2016/12 - 2018/11 Natural Sciences and Engineering Research Council of Canada (NSERC)
CRD
Total Funding - 240,000 (Canadian dollar)
Funding Competitive?: Yes

2015/9 - 2018/8
Principal Investigator

NSHRF Establishment Grant - Improving understanding of novel cancer therapies through molecular imaging, Grant

Funding Sources:

2015/9 - 2018/8 Nova Scotia Health Research Foundation (NSHRF)
Establishment Grant
Total Funding - 148,886 (Canadian dollar)
Portion of Funding Received - 148,886
Funding Competitive?: Yes

2016/3 - 2017/2
Co-applicant

Characterizing 18FOBODIPYs in vivo and in vitro

Funding Sources:

2016/2 - 2017/12 Beatrice Hunter Cancer Research Institute (BHCRI)
Seed Grants
Total Funding - 10,000 (Canadian dollar)
Funding Competitive?: Yes

2015/9 - 2016/8
Principal Investigator

Understanding and improving the application of immune checkpoint modulators using magnetic resonance imaging (MRI) cell tracking, Grant

Funding Sources:

2015/9 - 2016/8 IWK Health Centre (Halifax, NS)
Category B
Total Funding - 15,000 (Canadian dollar)
Portion of Funding Received - 15,000
Funding Competitive?: Yes

Completed [n=13]

2010/9 - 2012/9
Principal Applicant

MITACS Accelerate Internship, Fellowship

Funding Sources:

2010/9 - 2012/9 Mathematics of Information Technology and Complex Systems (MITACS)
MITACS internship
Total Funding - 30,000 (Canadian dollar)
Portion of Funding Received - 30,000
Funding Competitive?: Yes

2010/7 - 2012/7
Principal Applicant

NSERC Industrial Research Fellowship, Fellowship

Funding Sources:

2010/7 - 2012/7 Natural Sciences and Engineering Research Council of Canada (NSERC)
NSERC Industrial Research Fellowship
Total Funding - 90,000 (Canadian dollar)
Portion of Funding Received - 90,000
Funding Competitive?: Yes

2007/9 - 2009/9
Principal Applicant

NRC PhD Graduate Student Supplement, Fellowship

Funding Sources:

2007/9 - 2009/9 National Research Council Canada (NRC) (Ottawa, ON)
NRC PhD Graduate Student Supplement
Total Funding - 15,000 (Canadian dollar)
Portion of Funding Received - 15,000
Funding Competitive?: Yes

2006/9 - 2009/9 Killam Trust - Dalhousie, Fellowship

Principal Applicant

Funding Sources:

2006/9 - 2009/9 Killam Trusts
Killam PhD Scholarship
Total Funding - 75,000 (Canadian dollar)
Portion of Funding Received - 75,000
Funding Competitive?: Yes

2007/5 - 2009/5
Principal Applicant

NSERC CGS (Doctoral), Fellowship

Funding Sources:

2007/5 - 2009/5 Natural Sciences and Engineering Research Council of Canada (NSERC)
NSERC Canada Graduate Scholarship Doctoral (CGSD)
Total Funding - 70,000 (Canadian dollar)
Portion of Funding Received - 70,000
Funding Competitive?: Yes

2009/1 - 2009/5
Principal Applicant

ISMRM Conference Travel Stipend, Fellowship

Funding Sources:

2009/1 - 2009/5 International Society for Magnetic Resonance in Medicine (ISMRM) (USA)
Conference Travel Stipend
Total Funding - 295 (Canadian dollar)
Portion of Funding Received - 295
Funding Competitive?: Yes

2007/9 - 2008/9
Principal Applicant

Walter C Sumner Scholarship, Fellowship

Funding Sources:

2007/9 - 2008/9 Walter C. Sumner Foundation
Walter C. Sumner Award
Total Funding - 6,000 (Canadian dollar)
Funding Competitive?: Yes

2008/1 - 2008/5
Principal Applicant

ISMRM Conference Travel Stipend, Fellowship

Funding Sources:

2008/1 - 2008/5 International Society for Magnetic Resonance in Medicine (ISMRM) (USA)
Conference Travel Stipend
Total Funding - 400 (Canadian dollar)
Funding Competitive?: Yes

2005/9 - 2007/9
Principal Applicant

NRC Masters Student Supplement Scholarship, Fellowship

Funding Sources:

2005/9 - 2007/9 National Research Council Canada (NRC) (Ottawa, ON)
NRC Masters Graduate Student Supplement
Total Funding - 10,000 (Canadian dollar)
Funding Competitive?: Yes

2006/9 - 2007/9
Principal Applicant

NSERC PGS Scholarship (Doctoral), Fellowship

Funding Sources:

2006/9 - 2007/9	Natural Sciences and Engineering Research Council of Canada (NSERC) NSERC Post Graduate Scholarship Doctoral (PGSD) Total Funding - 21,000 (Canadian dollar) Funding Competitive?: Yes

2007/1 - 2007/5
Principal Applicant

ISMRM Conference Travel Stipend, Fellowship

Funding Sources:

2007/1 - 2007/5	International Society for Magnetic Resonance in Medicine (ISMRM) (USA) Conference Travel Stipend Total Funding - 750 (Canadian dollar) Funding Competitive?: Yes

2005/9 - 2006/9
Principal Applicant

Canadian Graduate Scholarship, Fellowship

Funding Sources:

2005/9 - 2006/9	Natural Sciences and Engineering Research Council of Canada (NSERC) NSERC Canada Graduate Scholarship Masters (CGSM) Total Funding - 17,500 (Canadian dollar) Funding Competitive?: Yes

2001/5 - 2004/5
Principal Applicant

Women in Engineering and Science Program, Fellowship

Funding Sources:

2001/5 - 2004/5	National Research Council of Canada Women in Engineering and Science Program Total Funding - 32,000 (Canadian dollar) Funding Competitive?: Yes

Student/Postdoctoral Supervision

Bachelor's [n=2]

Principal Supervisor — Victoria Gonzalez (In Progress) , Dalhousie University
Student Degree Start Date: 2014/9

2015/8 - 2015/11
Co-Supervisor — Merin Mohammad Ali (Completed) , Cochin University of Science and Technology
Student Degree Start Date: 2010/9
Thesis/Project Title: ISANS Biomedical Engineering Internship
Present Position: IT at IGATE Technologies

Bachelor's Honours [n=1]

Principal Supervisor — Brianna Kelly (In Progress) , Dalhousie University
Student Degree Start Date: 2014/9

Master's Thesis [n=2]

Principal Supervisor	Oliver Mariott (In Progress) , Dalhousie University Student Degree Start Date: 2017/5 Project Description: Development of Quantitative MRI methods for molecular imaging Present Position: Current MSc student
2016/1 Principal Supervisor	Zoe O'Brien-Moran (In Progress) , Dalhousie University Student Degree Start Date: 2016/1 Thesis/Project Title: Gleaning immunologic information from multi-modal imaging Present Position: Graduate Student

Post-doctorate [n=1]

2016/4 Principal Supervisor	Marie-Laurence Tremblay (In Progress) , IWK Health Centre Student Degree Start Date: 2016/4 Thesis/Project Title: Using MRI to better understand novel immunotherapies Present Position: Postdoctoral Fellow

Research Associate [n=1]

2016/3 - 2016/7 Co-Supervisor	Rojin Dibazar (Completed) , Dalhousie University Student Degree Start Date: 2016/3 Student Degree Received Date: 2016/7 Thesis/Project Title: Optimizing and evaluating molecular imaging methodologies including quantitative cell tracking and PET/MRI Present Position: Teaching assistant pending PhD start in Jan 2017

Technician [n=1]

2015/1 Co-Supervisor	Christa Davis (In Progress) , IWK Health Centre Student Degree Start Date: 2015/1 Thesis/Project Title: Research Imaging & Vet Technician Present Position: Research Imaging & Vet Technician

Staff Supervision

Number of Scientific and Technical Staff: 1

Journal Review Activities

2016/2	Reviewer,Magnetic Resonance in Medicine Number of Works Reviewed / Refereed: 1
2014/3	Reviewer,Magnetic Resonance Imaging Number of Works Reviewed / Refereed: 3

Conference Review Activities

2015/4	Abstract Reviewer, World Molecular Imaging Conference, Double Blind

Research Funding Application Assessment Activities

2017/1	Committee Member, CIHR Project Scheme Stage 1 2017, Organization, Academic Reviewer, Canadian Institutes of Health Research Number of Applications Assessed: 13

2016/10	Committee Member, CRTP Training Program Scientific Review, Funder, Academic Reviewer, Beatrice Hunter Cancer Research Institute (BHCRI), Beatrice Hunter Cancer Research Institute (BHCRI) Number of Applications Assessed: 5
2016/6	External Reviewer, Discovery Grant Panel B, Funder, Academic Reviewer, Prostate Cancer Canada, Prostate Cancer Canada Number of Applications Assessed: 1
2016/2	Committee Member, CBCF Research Project Review panel “A”, Funder, Academic Reviewer, Canadian Breast Cancer Foundation, Canadian Breast Cancer Foundation Number of Applications Assessed: 8

Committee Memberships

2016/8	Committee Member, IWK Research Ethics Board, IWK Health Centre Member of IWK Hospital Human Research Ethics Board
2016/6	Committee Member, International Conference on Magnetic Resonance Microscopy Local Organizing Committee, International Conference on Magnetic Resonance Microscopy
2015/12	Committee Member, Animal Users Committee, IWK Health Centre

Presentations

1. (2017). Using Molecular Imaging to Improve Translation of Cancer Therapeutics. Diagnostic Radiology Grand Rounds, Halifax, Canada
   Main Audience: Researcher
2. (2017). Investigation and Evaluation of Immunotherapies with Molecular Imaging. International Society for Magnetic Resonance in Medicine (ISMRM) 25th Annual Meeting, Honolulu, United States
   Main Audience: Researcher
3. (2016). Molecular Imaging of Cancer: From Benchtop to Bedside. BHCRI Seminar Series, Canada
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No
4. S Murugganandan, C Davis, K Brewer, C Bowen, C Sinal.(2015). Bone formation is induced in mouse calvarial defects after translplanting mesenchymal stem cells with CMKLR1 knockdown.World Molecular Imaging Congress, United States
   Main Audience: Researcher
   Invited?: No, Keynote?: No
5. X Zhang, S Kehoe, C Davis, E Tonkopi, D Boyd, C Bowen, R Abraham, K Brewer.(2015). Computed tomography and magnetic resonance imaging characteristics of novel radiopaque yttrium-strontium-gallium-silicate oxide glass microspheres: Potential materials for radioembolization.CIRSE, Portugal
   Main Audience: Knowledge User
   Invited?: No, Keynote?: No
6. (2015). Characterization of Magnetotactic Bacteria as MRI Cell Labeling and Tracking Agents. AACR-SNMMI Joint Conference on State of-the-Art Molecular Imaging in Cancer Biology and Therapy, San Diego, United States
   Main Audience: Researcher
   Invited?: No, Keynote?: No

7. (2014). Relaxometry of Bacterially Derived Organelles: A Novel Class of MRI Contrast Agent for Cell Labeling and Tracking. ISMRM 22nd Meeting and Scientific Exhibition, Milan, Italy
   Main Audience: Researcher
   Invited?: No, Keynote?: No
8. (2014). In Vivo Monitoring of Caspase-3 Activity with MRI in Response to Different Treatment Modalities. ISMRM 22nd Meeting and Scientific Exhibition, Milan, Italy
   Main Audience: Researcher
   Invited?: No, Keynote?: No
9. (2013). Using MRI to track SPIO-Labeled Effector and Regulatory Immune Cells in a Cancer Model. ISMRM 21st Meeting and Scientific Exhibition, Salt Lake City, United States
   Main Audience: Researcher
   Invited?: No, Keynote?: No
10. (2012). Biphasic clearance of depot vaccine antigen and substrate visualized using SPIO MRI. ISMRM 20th Meeting and Scientific Exhibition, Melbourne, Australia
    Main Audience: Researcher
    Invited?: No, Keynote?: No
11. (2012). Measuring lymph node swelling using MRI to act as a biomarker for tumour suppression. ISMRM 20th Meeting and Scientific Exhibition, Melbourne, Australia
    Main Audience: Researcher
    Invited?: No, Keynote?: No
12. (2009). Understanding the Origin of Image Intensity Displacement in Spiral-In versus Spiral-Out Acquisitions. ISMRM 17th Meeting and Scientific Exhibition, Honolulu, United States
    Main Audience: Researcher
    Invited?: No, Keynote?: No

Publications

Journal Articles

1. Marie-Laurence Tremblay, Christa Davis, Chris V. Bowen, Cathryn Parsons, Genevieve Weir, Mohan Karkada, Marianne M. Stanford, Kimberly D. Brewer. (2017). Using MRI Cell Tracking to Monitor Immune Cell Recruitment in Response to a Peptide-Based Cancer Vaccine. Scientific Reports.
   Last Author
   Submitted,
   Refereed?: Yes
2. KD Brewer*, R Spitler*, KR Lee, AC Chan, JC Barozzo, A Wakeel, CS Foote, S Machtaler, J Rioux, J Willmann, P Chakraborty, BW Rice, CH Contag, CB Bell, BK Rutt. (2016). Characterization of Magneto-Endosymbionts as MRI cell labeling and tracking agents.Molecular Imaging and Biology. Pending: Pending.
   First Listed Author
   Revision Requested,
3. K.D. Brewer, D.R. DeBay, I. Dude, C. Davis, K. Lake, C. Parsons, R. Rajagopalan, G. Weir, M.M. Stanford, M. Mansour, & C.V. Bowen. (2016). Using Lymph Node Swelling as a Potential Biomarker for Successful Vaccination. Oncotarget. 7(24): 35655-35669.
   First Listed Author
   Published,
   Refereed?: Yes
   Number of Contributors: 11

4. Drew Debay, Kimberly Brewer, Sarah Leblanc, Genevieve Weir, Marianne Stanford, Marc Mansour and Chris Bowen. (2015). Using MRI to Evaluate and Predict Therapeutic Success from Depot-based Cancer Vaccines. Molecular Therapy - Methods & Clinical Development. 2: 15048.
Co-Author
Published,
Refereed?: Yes, Open Access?: Yes

5. Dr. Adam Shuhendler* , Dr. Deju Ye*, Dr. Kimberly Brewer*, Dr. Bazalova-Carter Magdalena, Dr. Kyung Hyun Lee, Dr. Paul Kempen, Prof. K. Wittrup, Dr. Edward Graves, Dr. Brian Rutt. (2015). Molecular Magnetic Resonance Imaging of Tumor Response to Therapy. Scientific Reports. 5: 14759.
Co-Author
Published,
Refereed?: Yes, Open Access?: Yes

6. K.D. Brewer, K. Lake, N. Pelot, M. Stanford, D.R. Debay, A. Penwell, G. Weir, M. Karkada, M. Mansour, C.V. Bowen. (2014). Clearance of depot vaccine SPIO-labeled antigen and substrate visualized using MRI. Vaccine. 32(51): 6956-62.
First Listed Author
Published,
Refereed?: Yes

7. D. Ye, A.J. Shuhendler, P. Pandit, K.D. Brewer, S.S. Tee, L. Cui, G. Tikhomirov, B. Rutt, J. Rao. (2014). Caspase-responsive smart gadolinium-based contrast agent for magnetic resonance imaging of drug-induced apoptosis. Chemical Science. 5: 3845-52.
Co-Author
Published,
Refereed?: Yes

8. K.D. Brewer, J.A. Rioux, C.V. Bowen, S. Beyea. (2012). Signal Displacement in Spiral-In Acquisitions: Simulations and Implications for Imaging in SFG Regions. Magnetic Resonance Imaging. 30: 753-63.
First Listed Author
Published,
Refereed?: Yes

9. J.A. Rioux, K.D. Brewer, S.D. Beyea, C.V. Bowen. (2012). Quantification of Superparamagnetic Iron Oxide with Large Dynamic Range using TurboSPI. Journal of Magnetic Resonance. 216: 152-60.
Co-Author
Published,
Refereed?: Yes

10. J. Gawryluk, E. Mazerolle, K. Brewer, S. Beyea, R.C.N. D'Arcy. (2011). Investigation of fMRI activation in the internal capsule. BMC Neuroscience. 12: 56-62.
Co-Author
Published,
Refereed?: Yes

11. J. Gawryluk, R.C.N. D'Arcy, E. Mazerolle, K. Brewer, S. Beyea. (2011). Functional mapping in the corpus callosum: a 4T fMRI study of white matter. NeuroImage. 54: 10-15.
Co-Author
Published,
Refereed?: Yes

12. Mazerolle EL, Beyea SD, Gawryluk JR, Brewer KD, Bowen CV, D'Arcy RC.(2010). Confirming white matter fMRI in the corpus callosum: Co-localization with DTI Tractography. NeuroImage. 50: 616-21.
Co-Author
Published,
Refereed?: Yes

13. KD Brewer, JA Rioux, CV Bowen, RCN D'Arcy, S Beyea. (2009). Asymmetric Spin-Echo (ASE) Spiral Improves BOLD fMRI in Inhomogeneous Regions. NMR in Biomedicine. 24(6): 654-662.
    First Listed Author
    Published,
    Refereed?: Yes
    Number of Contributors: 5

14. J Gawryluk, KD Brewer, SD Beyea, RCN D'Arcy. (2009). Optimizing the detection of white matter fMRI using asymmetric spin echo spiral. NeuroImage. 45(1): 83-88.
    Co-Author
    Published,
    Refereed?: Yes
    Number of Contributors: 4

Conference Publications

1. Zoe O'Brien-Moran, Marie-Laurence Tremblay, Christa Davis, James Rioux, and Kim Brewer. (2017). Improved tracking and quantification of SPIO-labeled cells using bSSFP with compressed sensing TurboSPI. International Society for Magnetic Resonance in Medicine (ISMRM) 25th Annual Meeting, ,
   Poster
   Last Author
   Accepted

   Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) - Discovery Grant; Nova Scotia Health Research Foundation (NSHRF) - Establishment Grant

2. Marie-Laurence Tremblay, Zoe O'Brien-Moran, Christa Davis, James Rioux, Kimberly Brewer. (2017). **Evaluating immunotherapy effects usingpre-clinical molecular imaging tools for quantitative immune cell tracking** . American Association of Cancer Research Annual Conference 2017, ,
   Poster
   Last Author
   Accepted

   Funding Sources: Nova Scotia Health Research Foundation (NSHRF) - Establishment Grant

3. Zoe O'Brien-Moran, Marie-Laurence Tremblay, Christa Davis, James Rioux, Kimberly Brewer. (2016). Quantitative in vivo magnetic resonance imaging of SPIO-labeled cells in a cervical cancer mouse model. 2016 Beatrice Hunter Cancer Research Institute (BHCRI)/TFRI Atlantic Canada Cancer Research Conference, ,
   Poster
   Last Author
   Published

   Funding Sources: Nova Scotia Health Research Foundation (NSHRF) - Establishment Grant

4. Marie-Laurence Tremblay, Zoe O'Brien-Moran, Christa Davis, Kimberly Brewer. (2016). Using molecular imaging for monitoring cancer immunotherapy success in a cervical cancer model. 2016 Beatrice Hunter Cancer Research Institute (BHCRI)/TFRI Atlantic Canada Cancer Research Conference, ,
   Poster
   Last Author
   Published

   Funding Sources: Beatrice Hunter Cancer Research Institute (BHCRI) - CRTP award; Nova Scotia Health Research Foundation (NSHRF) - Establishment Grant

5. K Brewer, C Davis, X Zhang, J Fraser, E Tonkopi, P Casey, C Bowen, S Kehoe, D Boyd, R Abraham. (2016). Multimodal Imaging of Novel Embolic Microspheres for Transarterial Embolization in New Zealand White Rabbits. World Molecular Imaging Congress (WMIC), New York, United States,
   Conference Date: 2016/9
   Poster
   First Listed Author
   Published
   Refereed?: Yes

6. K Brewer, M Ali, C Davis, M Mansour, G Weir, M Stanford. (2016). Using preclinical magnetic resonance imaging (MRI) to monitor tumor and lymph node volume changes induced in response to therapeutic vaccination with a depot-forming vaccine.World Molecular Imaging Congress (WMIC), New York, United States,
   Conference Date: 2016/9
   Poster
   First Listed Author
   Published
   Refereed?: Yes

7. Shanmugam Muruganandan, Christa Davis, Kimberly Brewer, Chris Bowen and Christopher Sinal. (2015). Bone formation is induced in mouse calvarial defects after transplantingmesenchymal stem cells with CMKLR1 knockdown. World Molecular Imaging Congress 2015, Honolulu, United States,
   Conference Date: 2015/9
   Abstract
   Co-Author
   Published
   Refereed?: Yes, Invited?: No

8. Christa Davis, Olivia Stanley, Marianne Stanford, Genevieve Weir, Marc Mansour, Chris Bowen, Kim Brewer. (2015). Investigation of Cancer Vaccine Formulations Using MRI and PET/CT. World Molecular Imaging Congress 2015, Honolulu, United States,
   Conference Date: 2015/9
   Poster
   Last Author
   Published
   Refereed?: Yes, Invited?: No

9. X. Zhang, S. Kehoe, C. Davis, E. Tonkopi, D. Boyd, C. Bowen, R. Abraham, K. Brewer. (2015). Computed Tomography and Magnetic Resonance Imaging characteristics of novel radiopaque Yttrium-Strontium-Gallium–Silicate oxide glass microspheres: Potential materials for radioembolization.CIRSE 2015, Lisbon, Portugal,
   Conference Date: 2015/9
   Abstract
   Last Author
   Published
   Refereed?: Yes, Invited?: No

10. K Brewer, A Chan, J Rioux, M Rafat, S Machtaler, R Spitler, P Chakraborty, J Barozzo, A Wakeel, J Willmann, E Graves, B Rice, C Bell, B Rutt. (2015). Characterization of Magnetotactic Bacteria as MRI Cell Labeling and Tracking Agents. AACR-SNNMI Joint Conference on State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, San Diego, ,
    Conference Date: 2015/2
    Poster
    First Listed Author
    Published
    Refereed?: Yes, Invited?: No

11. A. Wakeel, A. Bazarov, R. Ali, J. Barrozo, A. Chan, P. Chakraborty, K. Brewer, BK Rutt, C. Bell. (2014). Creating a Magnetic Endosymbiont: Adapting the magnetotactic bacterium Magnetospirillum Magneticum AMB-1 to intracellular niches. ASM Conference on Experimental Microbial Evolution, Washington, United States,
    Conference Date: 2014/6
    Abstract
    Co-Author
    Published
    Refereed?: Yes, Invited?: No

12. K Brewer, R Ali, J Rioux, SS Tee, A Bazarov, S Felek, C Bell, B Rutt.(2014). Relaxometry of Bacterially Derived Organelles: A Novel Class of MRI Contrast Agent for Cell Labeling and Tracking. ISMRM 22nd Meeting and Scientific Exhibition, Milan, ,
    Conference Date: 2014/5
    Abstract
    First Listed Author
    Published
    Refereed?: Yes, Invited?: No

13. K Brewer, A Shuhendler, D Ye, P Pandit, M Bazalova, E Graves, J Rao, B Rutt.(2014). In Vivo Monitoring of Caspase-3 Activity with MRI in Response to Different Treatment Modalities. ISMRM 22nd Meeting and Scientific Exhibition, Milan, ,
    Conference Date: 2014/5
    Abstract
    First Listed Author
    Published
    Refereed?: Yes, Invited?: No

14. D Ye, A Shuhendler, P Pandit, K Brewer, B Rutt, J Rao. (2013). Controlled In Situ Nano Aggregation of Caspase-3/7 Activatable Fluorescent and MRI Probes for Dual-Modality Imaging of Tumor Cell Death. Sixth World Molecular Imaging Congress, Savannah, ,
    Conference Date: 2013/9
    Abstract
    Co-Author
    Published
    Refereed?: Yes, Invited?: No

15. K Brewer, O Stanley, C Davis, I Dude, G Weir, M Karkada, M Mansour, C Bowen. (2013). Tracking SPIO-Labeled Effector & Regulatory Cell Migration with MRI. Sixth World Molecular Imaging Congress, Savannah, ,
    Conference Date: 2013/9
    Poster
    First Listed Author
    Published
    Refereed?: Yes, Invited?: No

16. K Brewer, C Davis, I Dude, G Weir, O Stanley, M Karkada, M Mansour, C Bowen. (2013). Using MRI to track SPIO-Labeled Effector and Regulatory Immune Cells in a Cancer Model. ISMRM 21st Meeting and Scientific Exhibition, Salt Lake City, ,
    Conference Date: 2013/4
    Abstract
    First Listed Author
    Published
    Refereed?: Yes, Invited?: No

17. K Brewer, D DeBay, K Lake, I Dude, G Weir, M Mansour, C Bowen. (2012). Measuring lymph node swelling using MRI to act as a biomarker for tumour suppression. ISMRM 20th Meeting and Scientific Exhibition, Melbourne, ,
Conference Date: 2012/5
Abstract
First Listed Author
Published
Refereed?: Yes, Invited?: No

18. K Brewer, K Lake, N Pelot, D DeBay, A Penwell, G Weir, M Mansour, C Bowen. (2012). Biphasic clearance of depot vaccine antigen and substrate visualized using SPIO MRI. ISMRM 20th Meeting and Scientific Exhibition, Melbourne, ,
Conference Date: 2012/5
Abstract
First Listed Author
Published
Refereed?: Yes, Invited?: No

19. K Brewer, K Lake, N Pelot, D Debay, A Penwell, G Weir, C Bowen, M Karkada, M Mansour. (2012). Visualizing cancer vaccine clearance in vivo using magnetic resonance imaging. AACR Annual Meeting, Chicago, ,
Conference Date: 2012/3
Poster
First Listed Author
Published
Refereed?: Yes, Invited?: No

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