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Dr. Chris Bowen

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Date of Birth: 8/10

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Dr. Chris Bowen

Degrees

2002/7 - 2003/7	Post-doctorate, PDF, MRI Physics, Robarts Research Institute Degree Status: Completed
	Supervisors: Ravi S. Menon
1995/1 - 2002/6	Doctorate, Doctorate of Philosophy, Medical Biophysics, University of Western Ontario Degree Status: Completed
	Supervisors: Brian K. Rutt
1992/9 - 1994/12	Master's Thesis, Master's of Science, Physics, McMaster University Degree Status: Completed
	Supervisors: Claude Nahmias
1988/9 - 1992/4	Bachelor's, Bachelor's of Science, Physics, St. Francis Xavier University Degree Status: Completed

Credentials

2009/9	Reviewer, Transactions on Medical Imaging
2008/1	Reviewer, NMR in Biomedicine
2007/8	Reviewer, Medical Engineering and Physics
2004/1	Reviewer, Magnetic Resonance in Medicine
2003/1	Reviewer, Journal of Magnetic Resonance
2002/1	Reviewer, Neuroimage
1997/1	Full Member, International Society for Magnetic Resonance in Medicine

Recognitions

2010/5	Outstanding Achievement Award - 1,100 (Canadian dollar) National Research Council Canada Distinction
2008/3	Outstanding Graduate Faculty Advisor Award (nom) - 0 Dalhousie University Distinction
1999/1 - 1999/1	Excellence in Teaching Award - 0 University of Western Ontario Distinction

1992/1 - 1992/1	Silver Medal - 0 St. Francis Xavier University Distinction
1990/1 - 1990/1	First Prize for Oral Presentation - 0 Canadian Undergraduate Physics Conference Distinction

Employment

2013/4	Research Scientist Radiology, Medicine, IWK Health Centre
2005/9 - 2013/4	Research Officer Institute for Biodiagnostics (Atlantic), NRC, National Research Council Canada
2011/9 - 2012/8	Visiting Scholar EE, Engineering, Stanford University
2003/7 - 2005/6	Associate Scientist Imaging, Roberts Research Institute, Robarts Research Institute

Affiliations

The primary affiliation is denoted by (*)

2007/6	Assistant Professor, School for Biomedical Engineering, Dalhousie University
2006/12	Affiliated Scientist, Diagnostic Imaging, Queen Elizabeth II Health Sciences Centre
(*) 2006/5	Assistant Professor, Radiology, Dalhousie University
2006/5	Assistant Professor, Physics and Atmospheric Science, Dalhousie University

Research Funding History

Awarded [n=7]

Co-applicant

Microvascular injury and blood-brain barrier dysfunction as novel biomarkers and targets for treatment in traumatic brain injury

Principal Applicant : Friedman, Alon

Funding Sources:

2016/9 - 2021/9 Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 1,250,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator

Developing pushbutton MRI diagnostics for the clinical environment

Principal Investigator : Sharon Clarke; Steven Beyea

Funding Sources:

2015/1 - 2020/1 Atlantic Canada Opportunities Agency
Atlantic Initiative Fund
Total Funding - 2,988,419 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator

Testing and validation of pre-clinical multispectral SPECT and simultaneous PET/MRI using silicon photomultiplier technology

Principal Applicant : Steven Beyea

Funding Sources:

2017/3 - 2019/3 Natural Sciences and Engineering Research Council of Canada (NSERC)
Collaborative R&D (CRDPJ)
Total Funding - 160,000 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator — Improving understanding of novel cancer therapies through molecular imaging

Principal Applicant : Kim Brewer

Funding Sources:

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

Principal Applicant — A multi-modal neuroimaging approach to characterize BuChE-specific radioligands for early and definitive diagnosis of AD

Co-applicant : Darvesh, Sultan

Funding Sources:

2014/1 - 2016/2 Mitacs
Accelerate
Total Funding - 90,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator — Identification of immunological parameters for the clinical success of DepoVaxTM-based cancer immunotherapies

Principal Applicant : ImmunoVaccine (IMV)

Funding Sources:

2011/9 - 2014/9 Atlantic Canada Opportunities Agency
Atlantic Initiative Fund
Total Funding - 3,000,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator — Butylrlcholinesterase neuroimaging ligands for early and definitive diagnosis of AD

Principal Investigator : Darvesh, Sultan

Funding Sources:

2013/5 - 2014/5 Brain Repair Centre
Knowledge Translation
Total Funding - 30,000 (Canadian dollar)
Funding Competitive?: Yes

Completed [n=8]

Principal Investigator — Quantitative cellular density imaging using MRI

Funding Sources:

2007/6 - 2013/6 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - 90,000 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator — Fast artifact free whole brain fMRI using b-SSFP acquisitions

Co-applicant : Patterson, Steven

Funding Sources:

2012/1 - 2013/1 Capital Health (Nova Scotia)
Radiology Research Foundation
Total Funding - 10,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator — Development of Agents and Imaging Modalities for Early Detection AD

Principal Investigator : Abulrub, Abedelnasser

Funding Sources:

2009/8 - 2012/8 US Alzheimer's Association
Molecular Imaging in Alzheimer's grant
Total Funding - 402,300 (United States dollar)
Funding Competitive?: Yes

Co-applicant — Immune cell tracking to tumor microenvironment and lymphoid tissues: Use of molecular magnetic resonance imaging (MRI)

Principal Applicant : Brewer, Kimberly

Funding Sources:

2010/8 - 2012/7 Mitacs
Accelerate
Total Funding - 60,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator — Diffusion weighted MRI of cholesteatoma

Principal Investigator : Clarke, Sharon

Funding Sources:

2010/6 - 2011/6 Capital Health (Nova Scotia)
Radiology Research Foundation
Total Funding - 3,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator — Therapeutic Diagnostics: Preclinical PET

Co-investigator : D'Arcy, Ryan;

Principal Applicant : McGrath, Patrick

Funding Sources:

2011/3 - 2011/3 Atlantic Canada Opportunities Agency
Business Development Program
Total Funding - 438,000 (Canadian dollar)
Funding Competitive?: No

Principal Investigator — Lipidation of active vaccine components in a depot vaccine for enhancement of biological activity and enablement of in vivo MRI imaging

Principal Applicant : ImmunoVaccine Technologies (IVT)

Funding Sources:

2009/9 - 2010/9 — Industrial Research Assistance Program (IRAP)
Total Funding - 138,883 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator — The Neural Effects of Daytime Recuperative Naps

Principal Investigator : Ivanoff, Jason

Funding Sources:

2007/9 - 2010/9 — Nova Scotia Health Research Foundation (NSHRF)
Health Research Grant
Total Funding - 147,986 (Canadian dollar)
Funding Competitive?: Yes

Student/Postdoctoral Supervision

Bachelor's [n=1]

Principal Supervisor — Dude, Iulia (In Progress) , Waterloo University
Student Degree Start Date: 2009/9
Student Degree Expected Date: 2013/9
Project Description: Immunovaccine vaccine response using preclinical PET/CT
Present Position: Waterloo Physics Co-op

Bachelor's Honours [n=5]

Principal Supervisor — Stanley, Olivia (In Progress) , Waterloo University
Student Degree Start Date: 2010/9
Student Degree Expected Date: 2014/9
Project Description: Immunovaccine T-cell response trafficking using MRI
Present Position: Waterloo Physics Co-op

Principal Supervisor — LeBlanc, Sarah (In Progress) , Waterloo University
Student Degree Start Date: 2008/9
Student Degree Expected Date: 2013/8
Project Description: Immunovaccine MRI imaging
Present Position: Waterloo Engineering Co-op

Principal Supervisor — Dahn, Hannah (Completed) , Dalhousie University
Student Degree Start Date: 2007/9
Student Degree Received Date: 2011/4
Project Description: White Matter fMRI in Rats
Present Position: Employed with Dalhousie University

Principal Supervisor — Pelot, Nicole (Completed) , Dalhousie University
Student Degree Start Date: 2006/9
Student Degree Received Date: 2011/12
Project Description: Iron-oxide quantitation using IR-SSFP MRI
Present Position: Ph.D. Candidate Duke University

Principal Supervisor	Lake, Kerry (Completed) , Dalhousie University Student Degree Start Date: 2004/9 Student Degree Received Date: 2008/4 Project Description: Immunovaccine MRI scanning Present Position: Med School University of Toronto

Master's Thesis [n=3]

Academic Advisor	Drobinin, Vlad (In Progress) , Dalhousie University Student Degree Start Date: 2015/9 Project Description: Resting State fMRI to explore biomarkers for cognitive disease involving at risk teenagers (Forbow study). Present Position: M.Sc. Candidate
Principal Supervisor	Ahmed Elkady, (Completed) , Dalhousie University Student Degree Start Date: 2007/1 Student Degree Received Date: 2009/6 Project Description: Cell Density Imaging using Balanced-SSFP Acquisitions Present Position: MBA in American University of Cairo
Principal Supervisor	Steve Patterson (Completed) , Dalhousie University Student Degree Start Date: 2006/9 Student Degree Received Date: 2008/9 Project Description: Use of balance SSFP for fMRI imaging in susceptibility inhomogeneity regions Present Position: Scientist at IWK

Doctorate [n=9]

Academic Advisor	O'Brien-Moran (In Progress) , Dalhousie University Student Degree Start Date: 2016/1 Project Description: Cell tracking MRI to explore mechanisms of immune response to immunotherapeutic compounds. Present Position: Ph.D. Candidate Dalhousie Physics
Academic Advisor	Murtha, Nathan (In Progress) , Dalhousie University Student Degree Start Date: 2015/9 Project Description: MRI image acceleration involving dynamic contrast enhanced MRI for prostate cancer applications. Present Position: Ph.D. Candidate Dalhousie Physics
Principal Supervisor	DeBay, Drew (In Progress) , Dalhousie University Student Degree Start Date: 2014/7 Student Degree Expected Date: 2018/9 Project Description: PET and SPECT imaging of BuChE compounds targeting AD Present Position: Ph.D. Candidate Dalhousie University
Academic Advisor	Tiffany Jou (In Progress) , Stanford University Student Degree Start Date: 2011/9 Student Degree Expected Date: 2015/7 Project Description: Use of b-SSFP for fMRI in whole brain applications Present Position: Employed by Apple at Cupertino

Principal Supervisor	Patterson, Steven (Completed) , Dalhousie University Student Degree Start Date: 2008/9 Student Degree Received Date: 2014/12 Project Description: Functional MRI using Balanced-SSFP in Regions of Magnetic Field Distortion Present Position: Ph.D. Candidate Dalhousie Physics
Principal Supervisor	Rioux, James (Completed) , Dalhousie University Student Degree Start Date: 2007/9 Student Degree Received Date: 2012/8 Project Description: Turbo-SPI MRI Imaging for Cellular Tracking Present Position: PostDoc at Stanford University
Academic Advisor	Bray, Josh (Completed) , Dalhousie University Student Degree Start Date: 2005/10 Student Degree Received Date: 2010/10 Project Description: Imaging ceramic biomaterials using MRI Present Position: Post-doc University of Montana
Academic Advisor	Mazerolle, Erin (Completed) , Dalhousie University Student Degree Start Date: 2005/9 Student Degree Received Date: 2011/7 Project Description: Mapping White Matter fMRI in animal models Present Position: Post-doc University of Calgary
Academic Advisor	Brewer, Kimberly (Completed) , Dalhousie University Student Degree Start Date: 2005/9 Student Degree Received Date: 2010/9 Project Description: Development of susceptibility resistant MRI acquisition techniques for fMRI Present Position: Scientist at CDHA

Post-doctorate [n=2]

Principal Supervisor	Brewer, Kimberly (Completed) , Dalhousie University Student Degree Start Date: 2010/6 Student Degree Received Date: 2012/8 Project Description: Immune cell tracking to tumor microenvironment and lympoied tissues Present Position: PostDoc at Stanford University
Principal Supervisor	Carter, Michael (Completed) , University of Toronto Student Degree Start Date: 2009/4 Student Degree Received Date: 2009/9 Project Description: Volumetric AD diagnostics using preclinical MRI Present Position: Pathology Medical Residency, Dalhousie University

Mentoring Activities

2005/9 - 2012/9	Chair of preclinical imaging facility, National Research Council Number of Mentorees: 4 Scientific director facilitating projects in NRC preclinical imaging facility with staff supervision responsibilities

Knowledge and Technology Translation

2015/9 - 2020/8

Co-Investigator, R&D Collaboration with Industry
Group/Organization/Business Serviced: GE Healthcare
Target Stakeholder: Industry/Business (>500 employees)
Outcome / Deliverable: Develop 3 pushbutton MRI computer aided diagnostic software tools for diagnosis in liver/prostate and for single patient fMRI mapping.
Evidence of Uptake/Impact: Hired 6 MRI physicists/personnel and develop software technology with opportunity for royalties to NS hospitals (IWK).
Activity Description: $2.9M ACOA Grant to develop human fMRI, liver fat quantification and prostate computer diagnostics in partnership with GE Healthcare.

International Collaboration Activities

2015/6 - 2015/6

Phd evaluation committeeUnited States
Ph.D. evaluation committee for Tiffany Jou at Stanford University

Presentations

1. (2016). MRI Quality Control: Responsibilities for the MRI technologist. Canadian Association of Medical Radiological Technologists (CAMRT), Halifax, Canada
   Main Audience: Knowledge User
2. (2015). Susceptibility contrast without susceptibility artifact: fMRI and MRI cell tracking applications. Quebec workshop on small animal MRI, Montreal, Canada
   Main Audience: Researcher
3. (2012). Susceptibility Contrast Without Susceptibility Artifact. Center for Biomedical Imaging, Stanford University, Stanford, United States
   Main Audience: Researcher
4. (2012). NRC preclinical imaging facility and small animal MRI. BCHRI Cancer Workshop, Halifax, Canada
   Main Audience: Researcher

Broadcast Interviews

2013/06/18 - 2013/06/18

Brain imaging in Neuroscience, Think About It, CBC Radio

Publications

Journal Articles

1. DeBay D, Reid GA, Pottie IR, Martin E, Bowen CV, Darvesh S. (2017). Targeting butyrylcholinesterase for pre-clinical SPECT imaging of Alzheimer's disease. Alzheimer's & Dementia.
   Co-Author
   Accepted
   Refereed?: Yes
   Number of Contributors: 6

2. Jou T, Patterson S, Pauly J, Bowen CV. (2016). Fat-Suppressed Alternating-SSFP for Whole-Brain fMRI using Breath-hold and Visual Stimulus Paradigms. Magnetic Resonance in Medicine. 75(5): 1978-88.
   Last Author
   Published
   Refereed?: Yes

3. Brewer K*, Debay D*, Dude J*, Davis C, Lake K , Parsons C*, Rajagopalan R, Weir G, Stanford M, Mansour M, Bowen CV. (2016). Using Lymph Node Swelling as a Potential Biomarker for Successful Vaccination. Oncotarget. PMID: 27232944: 1-10.
   Last Author
   Published
   Refereed?: Yes
   Number of Contributors: 11

4. Rioux JA*, Beyea SD, Bowen CV. (2016). 3D Single Point Imaging with Compressed Sensing Provides High Temporal Resolution R2* Mapping for In Vivo Preclinical Applications. Magma. PMID: 27503309: 1-10.
   Last Author
   Published
   Refereed?: Yes
   Number of Contributors: 3

5. Pouliot P, Gagnon L, Lam T, Avti PK, Bowen C, Desjardins M, Kakkar AK, Thorin E, Sakadzic S, Boas DA, Lesage F.(2016). Magnetic resonance fingerprinting based on realistic vasculature in mice. Neuroimage. PMID: 28043909
   Co-Author
   Published
   Refereed?: Yes
   Number of Contributors: 11

6. DeBay DR*, Brewer KD*, LeBlanc SA*, Weir GM, Stanford MM, Mansour M, Bowen CV. (2015). Using MRI to evaluate and predict therapeutic success from depot-based cancer vaccines.Molecular Therapy - Methods and Clinical Development. PMID: 26730395: xxx.
   Last Author
   Published
   Refereed?: Yes
   Number of Contributors: 7

7. Macdonald I*, DeBay DR*, Reid GA, O'Leary TP, Jollymore CT, Mawko G, Burrell S, Martin E, Bowen CV, Brown RE, Darvesh S. (2014). Early detection of cerebral glucose uptakechanges in the 5XFAD mouse. Current Alzheimer Research. 11(5): 450-60.
   Co-Author
   Published
   Refereed?: Yes

8. Andrade-Vieira R, Goguen D, Bentley HA, Bowen CV, Marignani PA. (2014). Pre-clinical study of drug combinations that reduce breast cancer burden due to aberrant mTOR and metabolism promoted by LKB1 loss.Oncotarget. 5(24): 12738-52.
   Co-Author
   Published
   Refereed?: Yes

9. Brewer KD*, Lake K*, Pelot N*, Stanford M, DeBay DR*, Penwell A, Weir GM, Karkada M, Mansour M, Bowen CV. (2014). Clearance of depot vaccine SPIO-labeled antigen and substrate visualized using MRI. Vaccine. 32(51): 6956-62.
Last Author
Published
Refereed?: Yes
Number of Contributors: 10

10. O'Blenes SB , Li AW , Bowen C , Debay D , Althobaiti M , Clarke J. (2013). Impact of hepatocyte growth factor on skeletal myoblast transplantation late after myocardial infarction.Drug target insights. 7: 9-17.
Co-Author
Published
Refereed?: Yes

11. Holland DJ , Liu C , Song X , Mazerolle EL , Stevens MT , Sederman AJ , Gladden LF , D'Arcy RC , Bowen CV , Beyea SD. (2013). Compressed sensing reconstruction improves sensitivity of variable density spiral fMRI.Magnetic resonance in medicine. 70(6): 1634-43.
Co-Author
Published
Refereed?: Yes

12. Bowen CV , Debay D , Ewart HS , Gallant P , Gormley S , Ilenchuk TT , Iqbal U , Lutes T , Martina M , Mealing G , Merkley N , Sperker S , Moreno MJ , Rice C , Syvitski RT , Stewart JM. (2013). In Vivo Detection of Human TRPV6-Rich Tumors with Anti-Cancer Peptides Derived from Soricidin.PloS one. 8(3): e58866.
First Listed Author
Published
Refereed?: Yes

13. Pelot NA , Bowen CV. (2013). Quantification of superparamagnetic iron oxide using inversion recovery balanced steady-state free precession.Magnetic resonance imaging. 31(6): 953-60.
Last Author
Published
Refereed?: Yes

14. Rioux JA , Brewer KD , Beyea SD , Bowen CV. (2012). Quantification of superparamagnetic iron oxide with large dynamic range using TurboSPI.Journal of magnetic resonance. 216: 152-60.
Last Author
Published
Refereed?: Yes

15. Brewer KD , Rioux JA , Klassen M , Bowen CV , Beyea SD. (2012). Signal displacement in spiral-in acquisitions: simulations and implications for imaging in SFG regions.Magnetic resonance imaging. 30(6): 753-63.
Co-Author
Published
Refereed?: Yes

16. Bray JM , Filiaggi MJ , Bowen CV , Beyea SD. (2012). Degradation and drug release in calcium polyphosphate bioceramics: An MRI-based characterization.Acta biomaterialia. 8(10): xxx.
Co-Author
Published
Refereed?: Yes

Conference Publications

1. X Zhang, S Kehoe, C Davis, E Tonkopi, D Boyd, C Bowen, R Abraham, K Brewer.(2016). Computed Tomography and Magnetic Resonance Imaging characteristics of novel radiopaqueYttrium-Strontium-Gallium–Silicate oxide glass microspheres: Potentialmaterials for radioembolization.CIRSE
   Abstract
   Co-Author
   Published
2. K Brewer, C Davis, X Zhang, J Fraser, E Tonkopi, P Casey, C Bowen, S Kehoe, D Boyd, R Abraham. (2016). Multimodal Imaging of NovelEmbolic Microspheres for Transarterial Embolization in New Zealand White Rabbits. WMIC
   Abstract
   Co-Author
   Published
3. Tiffany J, Cheng J, Bowen C, Lustig M, Pauly J. (2015). Extended Parallel Imaging in Alternating-SSFP fMRI. ISMRM 23rd Meeting and Scientific Exhibition
   Abstract
   Co-Author
   Published
4. Muruganandan S, Davis C, Bowen CV, Brewer KD, Sinal C. (2015). Bone formation is induced in mouse calvarial defects after transplanting mesenchymal stem cells with CMKLR1 knockdown. World Molecular Imaging Congress
   Abstract
   Co-Author
   Published
5. DeBay D, Macdonald I, Reid A, Cash M, Mawko G, Burrell S, Martin E, Bowen C, Darvesh S. (2015). Cerebral Glucose Metabolism in a 5XFAD Butyrylcholinesterase-Knockout Mouse Model of Alzheimer’s Disease. Alzheimer's Association International Conference
   Abstract
   Co-Author
   Published
6. Abraham R, Basseri H, Davis C, Tonkopi E, Kehoe S, Boyd D, Bowen CV. (2015). Magnetic Resonance Imaging Characteristics of Imageable Embolic Microspheres. Society of Interventional Radiology
   Abstract
   Last Author
   Published
7. Davis C, Stanley O, Stanford M, Weir G, Mansour M, Bowen CV, Brewer KD. (2015). Investigation of Cancer Vaccine Formulations using MRI and PET/CT. World Molecular Imaging Congress
   Abstract
   Co-Author
   Published
8. Jou T, Patterson S, Pauly J, Bowen CV. (2014). Fat-suppressed Alternating-SSFP for Whole-Brain fMRI Using a Short Spatial-Spectral Pulse. ISMRM 22nd Meeting and Scientific Exhibition
   Abstract
   Last Author
   Published

9. POULIOT P, AVTI P, BOWEN CV, CASTONGUAY A, TABATABEI M, MOEINI M, THORIN E, LESAGE F. (2014). Correlates of brain anatomy and cardiac function in healthy aging and atherosclerosis in mice. Neuroscience 2014
Abstract
Co-Author
Published

10. Drew. R. DeBay, I.R. Macdonald, T.P. O'Leary, G.A. Reid, M. Cash, C.T. Jollymore, G. Mawko, S. Burrell, E. Martin, C.V. Bowen, R.E. Brown, S. Darvesh. (2014). Alternative Cerebral Glucose Uptake Metrics Detect Early Metabolic Changes in the 5XFAD Mouse Model of Alzheimer's Disease. Alzheimers Association International Conference 2014
Abstract
Co-Author
Accepted

11. Ian R. Macdonald, D.R. DeBay, G.A. Reid, T.P. O'Leary, C.T. Jollymore, M. Cash, G. Mawko, S. Burrell, E. Martin, C.V. Bowen, R.E. Brown, Sultan Darvesh. (2013). Cerebral Glucose Metabolism, Pathology and Behaviour in the 5XFAD Mouse Model of Alzheimer's Disease. Alzheimers Association International Conference 2013
Abstract
Co-Author
Published

12. Brewer K, Bowen CV. (2013). Tracking SPIO-Labeled Effector and Regulatory Cell Migration with MRI. 6th World Molecular Imaging Congress
Abstract
Last Author
Published

13. Brewer K*, Davis C, Dude I*, Weir G, Stanley O, Karkada M, Mansour M, Bowen CV. (2013). Using MRI to track SPIO-labelled effector and regulatory immune cells in a cancer model. ISMRM 21st Meeting and Scientific Exhibition
Abstract
Last Author
Published

14. Jou T*, Patterson SA, Pauly JM, Bowen CV. (2013). Artifact-suppressed Alternating SSFP fMRI in Human Subjects Using a Breath Hold Paradigm. ISMRM 21st Meeting and Scientific Exhibition
Abstract
Last Author
Published

15. Patterson SA*, Bowen CV. (2013). Analytic solution of the optimum flip angle for pass-band SSFP fMRI prescribes high flip angle acquisitions. ISMRM 21st Meeting and Scientific Exhibition
Abstract
Last Author
Published

16. Patterson SA*, Mazerolle EL*, Beyea SD, Bowen CV. (2012). Whole-brain artifact-suppressed SSFP fMRI in a single paradigm run: Alternating SSFP. ISMRM 20th Meeting and Scientific Exhibition
Abstract
Last Author
Published

17. Brewer KD*, DeBay D*, Lake K*, Dude I*, Weir G, Mansour M, Bowen CV. (2012). Biphasic clearance of depot vaccine antigen and substrate visualized using SPIO MRI. ISMRM 20th Meeting and Scientific Exhibition
    Abstract
    Last Author
    Published

18. Rioux JA*, Beyea SD, Bowen CV. (2012). Compressed Sensing with Prior Information for Time-Resolved TurboSPI. ISMRM 20th Meeting and Scientific Exhibition
    Abstract
    Last Author
    Published

19. Brewer KD*, Lake K*, Pelot N*, DeBay D*, Penwell A, Weir G, Mansour M, Bowen CV. (2012). Measuring lymph node swelling using MRI to act as a biomarker for tumour suppression. ISMRM 20th Meeting and Scientific Exhibition
    Abstract
    Last Author
    Published

20. Rioux JA, Bowen CV, Kiselev VG. (2012). Relaxation with Diffusion near Magnetic Particles and Cells: Analytical Description and Experiment. ISMRM 20th Meeting and Scientific Exhibition
    Abstract
    Co-Author
    Published