

John A. Ronald, Ph.D.

Affiliations

Director & Scientist, Imaging Laboratories, Robarts Research Institute

Director, Translational Immune-Oncology Research Group (TIORG), Centre for Translational Cancer Research (CTCR)

Associate Professor

Medical Biophysics (primary appointment),

Oncology, Division of Experimental Oncology (cross-appointment)

Microbiology & Immunology (cross-appointment),

Neuroscience (cross-appointment),

Schulich School of Medicine & Dentistry,
The University of Western Ontario

Associate Scientist

Lawson Health Research Institute

Address

1151 Richmond St. N. Rm. 2241A
Robarts Research Institute
The University of Western Ontario
London, ON, Canada N6A 5B7

Telephone

Work: (519) 931-5777 x24391

Cell: (519) 868-0663

Email jronald@robarts.ca

Web Profile ([Link](#))

Google Scholar ([Link](#))

MyBibliography ([Link](#))

ResearcherID: B-7123-2008

ORCID ID: 0000-0003-3665-173X

Scopus ID: 8717401400

Research Specialization Keywords: Cancer, Molecular Imaging, Synthetic Biology, Molecular Biology, Reporter Genes, Cellular Immunotherapy, Genome Editing, Nonviral Vectors, Viral Vectors, *In Vivo* Cell Tracking, Bioluminescence Imaging, Magnetic Resonance Imaging, Positron Emission Tomography.

EDUCATION

June 2009 to Apr 2014

Postdoctoral Fellow

Stanford University
Department of Radiology
Mentor: Sanjiv Sam Gambhir, M.D., Ph.D.
Palo Alto, CA, USA

Jan 2004 to Dec 2008

Ph.D.

The University of Western Ontario
Department of Medical Biophysics
Mentors: Brian Rutt, Ph.D. & Robert Hegele, M.D.
London, ON, Canada

Sept 2000 to Jan 2003

M.Sc.

The University of Western Ontario
Department of Anatomy and Cell Biology
Mentors: Kem Rogers, Ph.D. & Martin Sandig, Ph.D.
London, ON, Canada

Sept 1996 to Apr 2000

B.Sc. (Hons.)

The University of Western Ontario
Department of Physiology
London, ON, Canada

ACADEMIC POSITIONS

July 2021 to Present

Associate Professor (Tenured)
Department of Medical Biophysics
Schulich School of Medicine & Dentistry
The University of Western Ontario

June 2015 to June 2021

Assistant Professor (Tenure-Track)
Department of Medical Biophysics
Schulich School of Medicine & Dentistry
The University of Western Ontario

June 2015 to Present

Scientist
Robarts Research Institute
Schulich School of Medicine & Dentistry
The University of Western Ontario

July 2015 to Present

Associate Scientist
Lawson Health Research Institute (LHRI)

HONORS/AWARDS

2019	World Molecular Imaging Conference 2019 – “This is Our Lab” winner – Roberts Cellular and Molecular Imaging Group (CMIG) won top lab as voted by conference attendees
2017	Canadian Institutes of Health Research-Institute of Cancer Research (CIHR-IRC) Early Researcher Program Award – Travel Award to CCRA Conference
2016	Roberts Petro-Canada Young Innovator Award (\$6,000)
2015	Travel Award: Canadian Cancer Society Research Institute: Junior Investigator Grant Panel
July 2009 to July 2012	Canadian Institutes of Health Research (CIHR) Postdoctoral Fellowship (\$50,000/year)
2009	Canadian Governor General’s Academic Gold Medal
Jan 2006 to Dec 2008	Heart and Stroke Foundation of Canada Doctoral Research Award (\$21,000/year)
Jan 2004 to Dec 2005	Natural Sciences and Engineering Research Council of Canada Post Graduate Scholarship B (\$21,000/year)
Sept 2001 to Dec 2002	Natural Sciences and Engineering Research Council of Canada Post Graduate Scholarship A (\$17,300/year)
Sept 2000 to Aug 2001	The University of Western Ontario President’s Scholarship for Graduate Study (PSGS) (\$21,000)

FUNDING

Total Funds Acquired (Since June 2015)

As Principal Investigator: **\$3,592,626**

As Co-Investigator: \$10,387,135

Total Infrastructure: \$7,990,246

Current Funds

2/1/23 - 1/31/28

Source: Canadian Institutes of Health Research (CIHR)

Program: Project Grant

Title: Targeting Pannexin-1 Channels in Glioblastoma Multiforme

Principal Investigator: Silvia Penuela

Co-Investigators: **John Ronald**, Matthew Hebb

Total Amount: \$971,550 for 5 years

1/1/23 - 12/31/27

Source: Canadian Cancer Society (CCS)/CIHR – Institute of Cancer Research (CIHR-ICR)

Program: Breakthrough Team Grants: Transforming Low Survival Cancers

Title: Casper-PANC: Canadian Strategy for Personalized Management of Pancreatic Cancer

Principal Investigator: Steven Gallinger

Co-Investigators: **John Ronald**, Armand Keating, Dwayne Barber, Hartland Jackson, George Zogopoulos, Daniel Renouf, Jennifer Knox, Robert Grant, Shoukat Dedhar, Ali Abdalaty, Rama Khokha, David Schaeffer, Christopher Pin, Christopher Mueller, Stuart Peacock, Erica Tsang, Barbara Grunwald, Kelvin Chan, Nick Bansback, Cindy Gayle.

Total Amount: \$7,500,000 for 5 years

Ronald/Keating/Barber Project Amount: \$568,750 for 5 years

- 1/1/23 - 12/31/24 **Source:** London Regional Cancer Program (LRCP) Catalyst Grants
 Program: Catalyst Grants (Breast Cancer Society Fund)
 Title: Prime-and-kill Cell-based Cancer Immunotherapy
 Principal Investigator: **John Ronald**
 Co-Investigators: Paula Foster, TianDuo Wang
 Total Amount: \$25,000 for 1 year (1 year no-cost extension)
- 5/1/23 - 4/30/25 **Source:** The University of Western Ontario
 Program: Interdisciplinary Development Initiatives (IDI)
 Title: Immune-Oncology
 Principal Investigators: **John Ronald** and Saman Maleki
 Total Amount: \$200,000 for 2 years (1 year no-cost extension)
- 4/1/22 - 3/31/24 **Source:** Stem Cell Network
 Program: Impact Awards Program
 Title: Delivery of Adipose-Derived Stromal Cells within Novel Cell-Assembled Bioscaffolds for the Treatment of Chronic Wounds
 Principal Investigator: Lauren Flynn
 Co-Investigators: Douglas Hamilton, Jonathan Thiessen, Justin Hicks, Emily Truscott, **John Ronald**
 Total Amount: \$250,000 for 2 years
- 10/1/21 - 9/30/26 **Source:** CIHR
 Program: Project Grant
 Title: Development of a Molecular Imaging Tools to Monitor the Fate of an Off-The-Shelf Chimeric Antigen Receptor Natural Killer (CAR-NK) Cell Immunotherapy
 Principal Investigator: **John Ronald**
 Co-Investigators: Timothy Scholl, Gregory Dekaban, Jonathan Thiessen, Justin Hicks, Mansour Haeryfar
 Total Amount: \$799,425 for 5 years
- 3/1/21 – 2/29/26 **Source:** CIHR
 Program: Project Grant
 Title: Development of a Novel Therapy to Prevent Breast Cancer Metastasis: Modulation of TAFI, a Master Regulator of Extracellular Proteolysis
 Principal Investigator: Michael Boffa
 Co-Investigators: **John Ronald**, David Hess
 Total Amount: \$756,000 for 5 years
- 4/1/16 - 3/31/24 **Source:** Natural Sciences and Engineering Research Council of Canada (NSERC)
 Program: Discovery Grant
 Title: A Novel Toolbox of Gene Expression Systems Applicable to Multimodality Molecular-Genetic Imaging
 Principal Investigator: **John Ronald**
 Total Amount: \$217,000 for 7 years

9/1/19 – 7/30/24 **Source:** National Institutes of Health (NIH)
Program: UH2/UH3: Innovative Technologies to Non-Invasively Monitor Genome Edited Cells In Vivo
Title: Non-Invasive Monitoring of CRISPR/Cas-Edited Chimeric Antigen Receptor T (CAR-T) Cells with Reporter Gene-Based Magnetic Resonance Imaging and Positron Emission Tomography
Principal Investigator: **John Ronald**
Co-Investigators: Paula Foster, Gregory Dekaban, Timothy Scholl, Robert Holt, Brad Nelson, Len Luyt, Michael Kovacs, David Edgell, Armand Keating
Total Amount Awarded: \$900,000 USD (~\$1,200,000 CAD) for 4 years (1 year no-cost extension)

Previous Funds

9/1/18 - 8/31/23 **Source:** Ministry of Research, Innovation and Science
Program: Early Researcher Award (MRI-ERA)
Title: Development of Novel Gene-Based Technologies for Molecular Imaging of Cancer Metastasis
Principal Investigator: **John Ronald**
Total Amount: \$150,000 for 5 years

3/1/22 - 2/28/23 **Source:** Canadian Institutes of Health Research (CIHR)
Program: Project Grant – Priority Announcement: Myalgic Encephalomyelitis and IMHA
Title: Harnessing Adipose-Derived Stromal Cells for Subcutaneous Soft Tissue Regeneration: Targeting Regenerative and Immunomodulatory Functionality
Principal Investigator: Lauren Flynn
Co-Investigators: Greg Dekaban, Maria Drangova, Gilles Lajoie, Aaron Brown, **John Ronald**
Total Amount: \$100,000 for 1 year

7/1/19 - 6/30/22 **Source:** Heart and Stroke Foundation of Canada
Program: Grant in Aid
Title: Development of a pro-regenerative cell delivery platform for therapeutic angiogenesis in the treatment of peripheral arterial disease
Principal Investigator: Lauren Flynn
Co-Investigators: David Hess, Gregory Dekaban, Brian Amsden, **John Ronald**
Total Amount: \$300,000 for 3 years

3/1/21 - 3/31/22 **Source:** CIHR
Program: Project Grant Priority Announcement: Cancer Research
Title: Development of Molecular Imaging Tools to Monitor the Fate of an Off-The-Shelf Chimeric Antigen Receptor Natural Killer (CAR-NK) Cell Immunotherapy for Breast Cancer
Principal Investigator: **John Ronald**

Co-Investigators: Greg Dekaban, Paula Foster, Mansour Haeryfar, Justin Hicks, Timothy Scholl, Jonathan Thiessen
Total Amount: \$100,000 for 1 year

4/1/17 - 3/31/22 **Source:** CIHR
Program: Project Grant
Title: Blood-Based Detection and Molecular Imaging Visualization of Cancer using Reporter Gene Vectors called Tumor-Activatable Minicircles
Principal Investigator: **John Ronald**
Co-Investigators: Paula Foster, Ann Chambers, Michael Lock, Elizabeth Gillies
Total Amount: \$673,200 for 5 years

4/1/21 - 3/31/22 **Source:** The University of Western Ontario
Program: Interdisciplinary Development Initiatives (IDI)
Title: Immune-Oncology
Principal Investigators: **John Ronald** and Saman Maleki
Total Amount: \$25,000 for 1 year

3/1/20 - 2/28/22 **Source:** Cancer Research Society
Program: Operating Grant
Title: Targeting PANX1 channels as a new strategy to reduce growth and angiogenesis of aggressive gliomas
Principal Investigator: Silvia Penuela
Co-Investigators: **John Ronald**, Matthew Hebb
Total Amount: \$120,000 for 2 years

3/1/20 - 2/28/22 **Source:** The University of Western Ontario
Program: Western Strategic Support for CIHR Success – Seed Grant
Title: Targeting pannexin channels for the treatment of patient-derived glioblastoma in mice.
Principal Investigator: Silvia Penuela
Co-Investigators: **John Ronald**, Matthew Hebb
Total Amount: \$25,000 for 1 year

3/1/20 - 2/28/22 **Source:** London Regional Cancer Program (LRCP)
Program: LRCP Catalyst Grants for Translational Cancer Research
Title: Pannexin 1 channels in glioblastoma multiforme
Principal Investigator: Silvia Penuela
Co-Investigators: **John Ronald**, Matthew Hebb
Total Amount: \$25,000 for 1 year

9/1/19 - 8/31/21 **Source:** Cancer Research Society
Program: Operating Grant
Title: Defining the potential of low intensity intratumoral modulation therapy-based platforms to treat high fatality brain cancers
Principal Investigator: Matthew Hebb
Co-Investigator: **John Ronald**, Susanne Schmid, Eugene Wong, Timothy Scholl, Cynthia Hawkins

Total Amount: \$120,000 for 2 years

- 2019 - 2020 **Source:** Windsor Cancer Centre Foundation
Program: Seeds4Hope
Title: Synthesis and targeted delivery of conjugated polymer nanoparticles for intratumoral modulation therapy in glioblastoma
Principal Investigator: Simon Rondeau-Gagné
Co-Investigators: Lisa A. Porter, Matthew Hebb, **John Ronald**
Total Amount: \$39,000
- 7/1/18 - 6/30/19 **Source:** Schulich School of Medicine & Dentistry
Program: Collaborative Research Seed Grant
Title: In Vivo Evaluation of Pannexin 1 Inhibition on Glioblastoma Growth in the Chick model using Bioluminescence Imaging
Principal Investigator: Silvia Penuela
Co-Investigators: **John Ronald**, Matthew Hebb
Total Amount: \$49,600 for 1 year
As co-investigator Dr. Ronald received \$15,000.
- 7/1/17 - 6/30/19 **Source:** Prostate Cancer Canada
Program: Movember Discovery Grant
Title: Tumour-Activatable Minicircles: Novel Transcription-Based Blood/Urine Assay for Assessing Prostate Cancer Aggressiveness
Principal Investigator: **John Ronald**
Co-Investigators: Alison Allan, Michael Lock
Total Amount: \$200,000 for 2 years
- 9/1/17 - 8/31/18 **Source:** Interdisciplinary Development Initiative (IDI) in Stem Cells and Regenerative Medicine
Program: Research Award
Title: Molecular Imaging of Safely-Engineered Mesenchymal Stem Cells Homing to Glioblastoma Patient-Derived Xenografts in Mice
Principal Investigator: **John Ronald**
Co-Investigators: Paula Foster, Matthew Hebb
Total Amount: \$15,000 for 1 year
- 3/1/17 - 2/28/18 **Source:** Schulich School of Medicine & Dentistry
Program: Collaborative Research Seed Grant
Title: Combination Targeted Immunotherapy for the Treatment of Metastatic Ovarian Cancer
Principal Investigator: Trevor Shepherd
Co-Investigators: **John Ronald**, John McCormick
Total Amount: \$49,985 for 1 year
As co-investigator Dr. Ronald received \$15,000.
- 3/1/17 - 2/28/18 **Source:** The University of Western Ontario
Program: Western Strategic Support for CIHR Success – Seed Grant
Title: Towards Safe In Vivo Cell Tracking with Multimodality Molecular Imaging using CRISPR/Cas Genome Editing Tools

Principal Investigator: **John Ronald**
Total Amount: \$25,000 for 1 year

2017 **Source:** Canadian Foundation for Innovation (CFI)
Program: Innovation Fund
Title: Infectious Disease Pathogenesis Facility for the Study of Emerging and Re-emerging Infectious Diseases
Principal Investigator: Eric Arts
Co-Investigators: Gregory Dekaban, Jimmy Dikeakos, Paula Foster, **John Ronald**, Mansour Haeryfar, David Heinrichs, Ting-Yim Lee, Leonard Luyt, John McCormick
Total Amount: \$7,990,246 for infrastructure

7/1/16 - 6/30/17 **Source:** The University of Western Ontario
Program: Western Strategic Support for CIHR Success – Seed Grant
Title: An Integrated Strategy for the Detection and Visualization of Lung Metastases using Tumour-Activatable Minicircles
Principal Investigator: **John Ronald**
Total Amount: \$25,000 for 1 year

2015 - 2017 **Source:** Cancer Research Society
Program: Operating Grant
Title: The Use of Novel *In Vivo* Imaging Techniques to Study the Impact of a Primary Tumour on Metastasis and Dormancy
Principal Investigator: Paula Foster
Co-Investigators: **John Ronald**, Ann Chambers, Dwayne Jackson
Total Amount: \$120,000 for 2 years

RESEARCH CONTRIBUTIONS

h-index=21; i10-index=35; citations: total=2196, since 2018=1147 (Google Scholar)

Publications

Peer-Reviewed Manuscripts	
In Prep/Submitted/In Revision	3
Published/In Press	62
Book Chapters	3
Invited Lectures	27
Interview and Media Relations	5
Intellectual Property	1
Conference Abstracts	112

Peer-Reviewed Manuscripts - Underlined denotes mentored individuals

In Prep/Submitted/In Revision

1. Evans MM, Liu S, **Ronald JA**. Development of minicircles as non-viral vectors for adenine and cytosine base editor delivery (*In Revision*).
2. Shalaby N, Xia Y, Kelly JJ, Sanchez-Pupo R, Martinez F, Fox M, Thiessen J, Hicks J, Scholl TJ, **Ronald JA**. Imaging CAR-NK cells targeted to HER2 ovarian cancer with human sodium-iodide symporter-based positron emission tomography (*Submitted*).

3. Serack FE, **Ronald JA**, Amsden BG, Hess DA, Flynn LE. Delivery of human adipose-derived stromal cells within mechanically resilient hydrogels induces adverse outcomes in a femoral artery ligation model in athymic *nu/nu* mice. (*In Prep*)

Published/In Press

1. Fu Y, Wang TD, **Ronald JA**. A synthetic Notch (synNotch) system linking intratumoral immune-cancer cell communication to a synthetic blood biomarker assay. *Front Pharmacol*, 14:1304194, Dec 2023.
2. McRae SW, Cleary MB, Martinez FM, Xia Y, Caravan P, Gale EM, **Ronald JA***, Scholl TJ*. Development of a suite of gadolinium-free OATP1-targeted paramagnetic probes for liver MRI. *J of Med Chem*, 66(10):6567-76, May 2023. *equal senior authors
3. Tang JM, McLennan A, Liu L, Hadway J, **Ronald JA**, Hicks J, Hoffman L, Anazodo UC. A protocol for simultaneous in-vivo imaging of cardiac and neuroinflammation in dystrophin-deficient MDX mice using [18F]FEPPA PET. *Int J of Mol Sci*, 24(8):7522, April 2023.
4. Iredale E, Elsaleh A, Xu H, Christiaans P, Deweyert A, **Ronald J**, Schmid S, Hebb MO, Peters TM, Wong E. Spatiotemporally dynamic electric fields for brain cancer treatment. *Physics in Medicine and Biology*, 68(8), April 2023.
5. Wang TD, Chen Y, Nystrom NN, Liu S, Fu Y, Martinez FM, Scholl TJ, **Ronald JA**. Visualizing cell-cell communication using synthetic notch activated magnetic resonance imaging. *Proc Natl Acad Sci U S A*, 120(11): e2216901120, March 2023.
6. Nystrom NN, McRae SW, Martinez FM, Kelly JJ, Scholl TJ, **Ronald JA**. A genetically-encoded magnetic resonance imaging reporter enables sensitive detection and tracking of spontaneous metastasis in deep tissues. *Cancer Res*, 83(5):673-85, March 2023. (preprint on BioRxiv doi: [Link](#)).
7. Shalaby N, Kelly JJ, Sehl OC, Gevaert JJ, Fox MS, Qi Q, Foster PJ, Thiessen JD, Hicks JW, Scholl TJ, **Ronald JA**. Complementary early-phase magnetic particle imaging and late-phase positron emission tomography reporter imaging of mesenchymal stem cells in vivo. *Nanoscale*, 15(7):3408-18, February 2023.
8. Williams RJ, Sehl O, Gevaert JJ, Liu S, Kelly JJ, Foster PJ, **Ronald JA**. Dual magnetic particle imaging and Akaluc bioluminescence imaging for tracking cancer cell metastasis. *Tomography*, (9)1: 178-194, January 2023.
9. Nystrom NN, Liu H, Martinez FM, Zhang X, Scholl TJ, **Ronald JA**. Gadolinium-free magnetic resonance imaging of the liver via an OATP1-targeted manganese(III) porphyrin. *J Med Chem*, July 2022. (preprint on BioRxiv doi: [Link](#)).
10. Shalaby N, Dubois VP, **Ronald J**. Molecular imaging of cellular immunotherapies in experimental and therapeutic settings. *Cancer Immunol, Immunother*, 71(6):1281-94, June 2022.

11. Shalaby N, Kelly J, Martinez F, Fox M, Thiessen J, Hicks J, Scholl TJ, **Ronald JA**. A human-derived dual MRI/PET reporter gene system with high translational potential for cell tracking. *Mol Imaging Biol*, 24(2): 341-351, April 2022.
12. Dubois VP, Sehl O, Foster PJ, **Ronald JA**. Visualizing CAR-T cell Immunotherapy using 3 Tesla 19-Fluorine MRI. *Molecular Imaging and Biology*, 24(2): 298-308, April 2022.
13. Liu S, Nystrom NN, Kelly JJ, Hamilton AM, Fu Y, **Ronald JA**. Molecular imaging reveals a high degree of cross-seeding of spontaneous metastases in a novel mouse model of synchronous bilateral breast cancer. *Mol Imaging Biol*, 24(1):104-114, February 2022. (preprint on BioRxiv doi: [Link](#))
14. Sirianni QEA, Wang TD, Borecki A, Deng Z, **Ronald JA**, Gillies ER. Self-immolative polyplexes for DNA delivery. *Biomater Sci*, 10(10):2557-67, February 2022.
15. Liu S, Su Y, Lin MZ, **Ronald JA**. Brightening up biology: Advances in luciferase systems for in vivo imaging. *ACS Chemical Biology*, 16(12): 2707-2718, December 2021.
16. Knier NN, Dubois VP, **Ronald JA**, Foster PJ. A method for the efficient iron-labeling of patient-derived xenograft cells and cellular imaging validation. *Journal of Biological Methods*, 8(3): e154, Sept 2021.
17. Martin PM, Walker JT, Kim KJ, Brooks CR, Serack FE, Kornmuller A, Juignet L, Hamilton AM, Dunmore-Buyze PJ, Drangova M, **Ronald JA**, Flynn L. Modular cell-assembled adipose matrix-derived bead foams as a mesenchymal stromal cell delivery platform for soft tissue regeneration. *Biomaterials*, 275:120978, August 2021.
18. Saha K, Sontheimer EJ, Brooks PJ, Dwinell MR, Gersbach CA, Liu DR, Murray SA, Tsai SQ, Wilson RC, Anderson DG, Asokan A, Banfield JF, Bankiewicz KS, Bao G, Bulte JWM, Bursac N, Campbell JM, Carlson DF, Chaikof EL, Chen ZY, Cheng RH, Clark KJ, Curiel DT, Dahlman JE, Deverman BE, Dickinson ME, Doudna JA, Ekker SC, Emborg ME, Feng G, Freedman BS, Gamm DM, Gao G, Ghiran IC, Glazer PM, Gong S, Heaney JD, Hennebold JD, Hinson JT, Khvorova A, Kiani S, Lagor WR, Lam KS, Leong KW, Levine JE, Lewis JA, Lutz CM, Ly DH, Maragh S, McCray PB Jr, McDevitt TC, Mirochnitchenko O, Morizane R, Murthy N, Prather RS, **Ronald JA**, Roy S, Roy S, Sabbisetti V, Saltzman WM, Santangelo PJ, Segal DJ, Shimoyama M, Skala MC, Tarantal AF, Tilton JC, Truskey GA, Vandsburger M, Watts JK, Wells KD, Wolfe SA, Xu Q, Xue W, Yi G, Zhou J; SCGE Consortium. The NIH Somatic Cell Genome Editing program. *Nature*, 592(7853): 195-204, April 2021.
19. Parkins KM, Melo KP, **Ronald JA**, Foster PJ. Visualizing tumour self-homing with magnetic particle imaging. *Nanoscale*, 13(12): 6016-6023, March 2021. (preprint on BioRxiv doi: [Link](#)) (highlighted)
20. Wang TD, Chen Y, Goodale D, Allan AL, **Ronald JA**. A survivin-driven tumour-activatable minicircle system for prostate cancer theranostics. *Molecular Therapy – Oncolytics*, 20(20): 209-219, Jan 2021. (preprint on BioRxiv: [Link](#))

21. Kelly JJ, Saeed-Marand M, Nystrom NN, Chen Y, Evans MM, Martinez FM, Hamilton AM, **Ronald JA**. A safe harbor-targeted CRISPR/Cas9 homology independent targeted integration (HITI) system for multi-modality reporter gene-based cell tracking. *Science Advances*, 7(4):eabc3791, Jan 2021. (preprint also on BioRxiv doi: [Link](#))
22. Parkins KM, Dubois VP, Kelly JJ, Chen Y, Foster PJ, **Ronald JA**. Engineering “self-homing” circulating tumour cells as novel cancer theranostics. *Theranostics*, 10(17):7925-7937, June 2020. (preprint also on bioRxiv doi: [Link](#))
23. Kanada M, Kim BD, Hardy JW, **Ronald JA**, Bachmann MH, Bernard MP, Perez GI, Zarea AA, Ge TJ, Withrow A, Ibrahim SA, Toomajian V, Gambhir SS, Paulmurugan R, Contag CH. Microvesicle-mediated delivery of minicircle DNA results in effective gene-directed enzyme prodrug cancer therapy. *Molecular Cancer Therapeutics*, 18(12):2331-2342, Dec 2019.
24. Nystrom NN, Yip LCM, Carson JLL, Scholl TJ, **Ronald JA**. A human photoacoustic imaging reporter gene using the clinical dye indocyanine green. *Radiology: Imaging Cancer*, 1(2): e190035, Nov 2019. (preprint also on bioRxiv doi: [Link](#))
25. Nystrom NN, Hamilton AM, Xia W, Liu S, Scholl TJ, **Ronald JA**. Longitudinal visualization of viable cancer cell intratumoral distribution in mouse models using Oatp1a1-enhanced magnetic resonance imaging. *Investigative Radiology*, 54(5): 302-11, May 2019.
26. Wang TD*, Chen Y*, **Ronald JA**. A novel approach for assessment of prostate cancer aggressiveness using surviving-driven tumour-activatable minicircles. *Gene Therapy*, 26(5):177-186, May 2019. *indicates equal contribution.
27. Ivanova IA, Arulanantham S, Barr K, Cepeda M, Parkins KM, Hamilton AM, Johnston D, Penuela S, Hess DA, **Ronald JA**, Dagnino L. Targeting FER kinase inhibits melanoma growth and metastasis. *Cancers (Basel)*, 11(3): pii:E419, Mar 2019.
28. Williams KC, Cepeda MA, Javed S, Searle K, Parkins KM, Makela A, Hamilton AM, Soukhthezari S, Kim Y, Tuck AB, **Ronald JA**, Foster PJ, Chambers AF, Leong HS. Invadopodia are chemosensing protrusions that guide cancer cell extravasation to promote brain tropism in metastasis. *Oncogene*, 38(19):3598-3615, Jan 2019.
29. Parkins KM, Dubois VP, Wong S, Hamilton AM, Foster PJ, **Ronald JA**. Cellular MRI reveals altered brain arrest of genetically-engineered metastatic breast cancer cells. *Contrast Media & Molecular Imaging*, 2019:6501231, Jan 2019.
30. Chen Y, Rogers KA, Rutt BK, **Ronald JA**. Close association of myeloperoxidase-producing activated microglia with amyloid plaques in hypercholesterolemic rabbits. *Journal of Alzheimer's Disease*, 67(4): 1221-1234 Jan 2019.
31. Dubois VP, Zotova D, Parkin KM, Swick C, **Ronald JA**. Safe harbor targeted CRISPR/Cas9 tools for molecular-genetic imaging of cells in living subjects. *CRISPR*, 1(6): 440-449, Dec 2018.

32. Hamilton AM, Foster PJ, **Ronald JA**. Evaluating non-integrating lentiviruses as safe vectors for noninvasive reporter-based molecular imaging of multipotent mesenchymal stem cells. *Human Gene Therapy*, 29(10): 1213-1225, Oct 2018.
33. Berish RB, Telmer PG, **Ronald JA**, Leong HS. Bone metastasis models of prostate cancer. *Nature Rev Urology*, 15(7):403-421, Jul 2018.
34. Chen Y, Rogers KA, Rutt BK, **Ronald JA**. *In vivo* MRI of amyloid plaques in a cholesterol-fed rabbit model of Alzheimer's disease. *Journal of Alzheimer's Disease*, 64(3):911-923, Jul 2018.
35. Parkins KM, Dubois VP, Hamilton AM, Makela AV, **Ronald JA**, Foster PJ. Multimodality cellular and molecular imaging of the impact of a primary tumor on metastatic growth in a syngeneic mouse model of breast cancer brain metastasis. *Scientific Reports*, 8(1): 8930, Jun 2018.
36. Le TNT, Lim H, Hamilton AM, Parkins KM, Chen Y, Scholl TJ, **Ronald JA**. Multiparametric magnetic resonance imaging and bioluminescence imaging characterization of an orthotopic rat model of glioblastoma. *Tomography*, 4(2):55-65, Jun 2018.
37. Hoehne A, James ML, Alam IS, **Ronald JA**, Schneider B, D'Souza A, Witney TH, Andrews LE, Cropper HC, Behera D, Gowrishankar G, Ding Z, Wyss-Coray T, Chin FT, Biswal S, Gambhir SS. [¹⁸F]FSPG-PET reveals increased cystine/glutamate antiporter (xc-) activity in a mouse model of multiple sclerosis. *J Neuroinflammation*, 15(1):55, Feb 2018.
38. **Ronald JA**, Kim B-S, Gowrishankar G, Namavari M, Alam IS, D'Souza A, Nishikii H, Chuang H-Y, Ilovich O, Lin C-F, Reeves RE, Shuhendler A, Hoehne A, Chan C, Baker J, Yaghoubi S, VanBrocklin HF, Hawkins RA, Franc BL, Jivan S, Slater JB, Verdin EF, Gao KT, Benjamin J, Negrin RS, Gambhir SS. A PET imaging strategy to visualize activated T cells in acute graft-versus-host disease elicited by allogenic hematopoietic cell transplant. *Cancer Research*, 77(11): 2893-2902, Jun 2017.
39. Parkins KM, Hamilton AM, Makela AV, Chen Y, Foster PJ, **Ronald JA**. A multimodality imaging model to track viable breast cancer cells from single arrest to metastasis in the mouse brain. *Scientific Reports*, 6: 35889, Oct 2016.
40. Chen Y, Hamilton A, Parkins KM, Wang J-X, Zeineh M, Rogers KA, Rutt BK, **Ronald JA**. MRI and histopathologic analysis of a novel cholesterol-fed rabbit model of xanthogranuloma. *J Magn Reson Imaging*, 44(3):673-82, Sep 2016.
41. **Ronald JA***, D'Souza AL*, Chuang H-Y, Gambhir SS. Artificial microRNAs as novel secreted reporters for cell tracking in living subjects. *PLOS One*, 11(7): e0159369, Jul 2016.
*indicates equal contribution.
42. Hamilton AM, Parkins KM, Murrell DH, **Ronald JA**, Foster PJ. Investigating the impact of a primary tumor on metastasis and dormancy using MRI: New insights into the mechanism of concomitant tumor resistance. *Tomography* 2(2): 79-84, Jul 2016.

43. **Ronald JA**, Chuang H-Y, Dragulescu-Andrasi A, Hori S, Gambhir SS. Detecting cancers through tumor-activatable minicircles that lead to a detectable blood biomarker. *Proc Natl Acad Sci U S A*, 112(10): 3068-73, Mar 2015.
44. **Ronald JA**, Katzenberg R, Nielsen CH, Jae HJ, Hofmann LV, Gambhir SS. MicroRNA-regulated non-viral vectors with improved specificity in an orthotopic rat model of hepatocellular carcinoma. *Gene Ther*, 20(10): 1006-13, Oct 2013.
45. **Ronald JA**, Cusso L, Chuang H-Y, Yan X, Dragulescu-Andrasi A, Gambhir SS. Development and validation of non-integrative, self-limited, and replicating minicircles for safe reporter gene imaging of cell-based therapies. *PLoS ONE*, 8(8): e73138, Aug 2013.
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49. **Ronald JA**. Imaging Myeloperoxidase in Cardiovascular Disease. *Current Cardiovascular Imaging Reports*, 4(1): 24-31, 2011.
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Book Chapters

1. Bazalova-Carter M, Murrell DM, Parkins KM, **Ronald JA**, Foster PJ, Graves E, Granton P, Wong E. Contributed Chapter: Small Animal Radiotherapy and Imaging. *Advances in Medical Physics: Volume 6*. Publisher: Medical Physics Publishing, July 2016.
2. **Ronald JA**, Biswal S, and Gambhir SS. Contributed Chapter: Monitoring Gene and Cell Therapies in Living Subjects with Molecular Imaging Technologies. *Gene and Cell Therapy: Therapeutic Mechanisms and Strategies*, 4th edition. Publisher: CRC Press, 2015.

3. Rutt BK and **Ronald JA**. Carotid Disease: The Role of Imaging in Diagnosis and Management. Contributed chapter: Future Technical Developments, Editors: Jonathan Gillard, Martin Graves, Thomas Hatsukami, Chun Yuan. Publisher: Cambridge University Press, 2006.

Presentations/Lectures

1. Imaging Cellular Immunotherapies with Reporter Gene-Based Technologies. 4th Annual Immune-Oncology Symposium. March 29, 2023 (invited).
2. Highly Efficient CRISPR-Cas9 Genome Editing to Generate HER2-Targeted CAR-T Cells Co-Expressing Multimodal Imaging Reporter Genes. 18th European Molecular Imaging Meeting (EMIM) 2023. March, 2023 (invited).
3. Molecular Imaging Reporter Gene Technologies for Cancer Applications. McGill Biological and Biomedical Engineering. January 27, 2023 (Invited).
4. Multimodality Molecular-Genetic Imaging Technologies for Cancer Applications. Western Oncology Grand Rounds. April 5, 2022.
5. CRISPR Technologies for Cell Tracking with Multimodal Imaging. Perkin Elmer User Meeting. November 4th, 2021 (Invited).
6. Reporter Genes and Genome Editing for MRI Cell Tracking. Megastars of Molecular Imaging (Virtual) – Hosted by Kings College London. November 8th-9th, 2020 (Invited).
7. CRISPR genome editing tools for safer multimodality reporter gene cell tracking. Session: CRISPR Images: Genome Editing and Circuit Technology for Human Cell Imaging - Synthetic Biology and Reporter Genes (SyBRG) Group. World Molecular Imaging Congress Virtual 2020. October 7th-9th, 2020 (Invited).
8. Introduction to the Canadian Chapter of the World Molecular Imaging Society (WMISCan). Closing ceremony at World Molecular Imaging Congress. Montreal, QC. September 2019.
9. Molecular-Genetic Imaging Technologies for Cancer. University of Windsor, March 7th, 2019 (Invited).
10. A Primer on Bioluminescence Imaging and Its Applications in Cancer Research. London Regional Cancer Program Physics Group. October 2, 2018 (Invited).
11. Precision Cancer Medicine. Discover Robarts – Tailored Medicine. June 7th, 2017.
12. Molecular-Genetic Imaging Strategies for *In Vivo* Cell Tracking. Ontario Institute for Cancer Research (OICR) Bi-Annual Meeting. March 23rd, 2017 (Invited).
13. Next-Gen DNA Technologies for Cell Tracking and Cancer Detection. Discover Robarts. March 3rd, 2017.
14. Novel Molecular-Genetic Imaging Technologies for Cell Tracking and Cancer Detection. Medical Biophysics – New Kids on the Block Talks. Sept 22nd, 2016

15. Using Reporter Genes to Track Cells and Therapies in Living Subjects. Robarts Summer Students Lecture Series. June 21st, 2016.
16. Novel Reporter Gene-Based Technologies for Cell Tracking and Cancer Detection. New2Robarts Talk. June 9th, 2016.
17. Novel Reporter Gene-Based Technologies for Cell Tracking and Cancer Detection using Biofluid- and Imaging-Based Readouts. Department of Oncology Grand Rounds. London, ON. May 10th, 2016 (Invited).
18. Tracking Transplanted and Diseased Cells in Living Subjects through Multi-Modality Molecular Imaging and *In Vitro* Diagnostics. Armand Keating Group. Toronto, ON. May 5th, 2016.
19. Applications of Bioluminescence Imaging for Monitoring Cell- and Gene-Based Therapeutics. Cutting Edge Real Time Optical Imaging for Translational Research. Li Ka Shing Knowledge Institute, Toronto, ON. December 8th, 2015 (Invited).
20. Tracking Transplanted and Diseased Cells in Living Subjects through Multimodality Molecular Imaging and *In Vitro* Diagnostics. RGE Murray Seminar Series, Department of Microbiology and Immunology, The University of Western Ontario. December 3rd, 2015.
21. Molecular-Genetic Imaging for Cell Tracking and Disease Detection. New Faculty Lecture Series, The University of Western Ontario. November 13th, 2015.
22. New MRI Method for Atherosclerosis: Molecular MRI of Myeloperoxidase. Graduate student speaker by Department of Medical Biophysics for Annual A.C. Burton Day. March 2006.
23. Conventional, Cellular and Molecular Contrast-Enhanced MRI of Experimental Atherosclerosis. 2nd annual iCAPTURE/Robarts Research Institute Scientific Colloquium, Gourlay Conference Room, iCAPTURE Centre, Vancouver, British Columbia, Canada, March 2006.
24. Imaging Inflammation: Atherosclerosis. Inaugural Cellular Imaging Program Retreat. Windermere Manor, London, Ontario, Canada, August 2005.
25. Imaging Vulnerable Atherosclerotic Lesions: Development of MR Techniques. Robarts Trainee Mini Symposium, Robarts Research Institute, London, Ontario, Canada, April 2005.
26. Cellular Magnetic Resonance Imaging in Atherosclerosis. Inaugural iCAPTURE/Robarts Research Institute Scientific Colloquium, Gourlay Conference Room, iCAPTURE Centre, Vancouver, British Columbia, Canada, January 2005.
27. Peering into atherosclerotic rabbits using MRI. Spinal Cord Injury Team (SCIT), Robarts Research Institute, London, Ontario, Canada, October 2004.

Interview and Media Relations

1. News Coverage – CTV London, London Free Press, Western News – Coverage of TianDuo Wang’s work on Tumour-Activatable Minicircles for Assessment of Prostate Cancer Aggressiveness
2. News Coverage – CTV London interview about CIHR Grant on Tumour-Activatable Minicircles
3. Rapport Magazine 2016 – Interview regarding the lab’s focus and scientific direction.
4. Articles and interviews regarding the paper “**J.A. Ronald** et al., *Proceedings of the National Academy of Sciences*, 2015.” were published by the following media and scientific outlets: The Pathologist; The Dr. Drew Show; The Frank Ling show; FoxNews; The Scientist; Demanjo; Science Daily; China.org; Healthcare Asia; Hindustan Times; Hindu Business Line; genomeweb; NDTV; Health News Latest; ZME Science; Medindia; Diajiworld; Newsly; News24; and Mid Day.
5. Articles and interviews regarding the paper “**J.A. Ronald** et al., *Brain*, 2009.” were published by the following media and scientific outlets: USA Today; The Economist; Reuters; consumer.healthday; china.org; and cbica.upenn.edu.

Intellectual Property

1. Gambhir SS and **Ronald JA**. Tumor-specific minicircles for cancer screening. United States Patent Number: 9534248; 2017/1/3.
 - a. Licensed by Earli, Inc. – Start-up company in Silicon Valley.

Conference Abstracts (Up to 2020)

1. Martin PM, Kim K, Serack F, Juignet L, Hamilton AM, **Ronald JA**, Flynn LE. Cell-assembled matrix-derived bead foams as a pro-angiogenic mesenchymal stromal cell delivery platform. *11th World Biomaterials Congress*. May 2020.
2. Wang TD, Chen Y, **Ronald JA**. Developing tumour-activatable minicircles for prostate cancer diagnosis and therapy. *Canadian Cancer Research Conference*, Ottawa, ON. November 2019. **[Poster Presentation]**
3. Kelly JJ, Saeed-Marand M, Nyström NN, Chen Y, Evans MM, Hamilton AM, **Ronald JA**. Development of CRISPR/Cas9 Homology Independent Targeted Integration (HITI) Minicircle Donors for Multi-Modality Reporter Gene-Based Cell Tracking. *Canadian Cancer Research Conference*. Ottawa, Ontario. November 2019. **[Poster Presentation]**
4. Parkins KM, Dubois VP, Kelly J, Chen Y, Foster PJ, **Ronald JA**. Engineering “self-homing” circulating tumour cells as novel cancer theranostics. *World Molecular Imaging Congress*, Montreal, QC. September 2019. **[Oral Presentation – Highlight Talk and Young Investigator Award Finalist]**
5. Kelly JJ, Saeed-Marand M, Nyström NN, Chen Y, Evans MM, Hamilton AM, **Ronald JA**. A Safe Harbor-Targeted CRISPR/Cas9 Homology Independent Targeted Integration (HITI) System for Multi-Modality Reporter Gene-Based Cell Tracking. *World Molecular Imaging Congress (WMIC)*. Montreal, QC. September 2019. **[Oral Presentation - Highlight talk]**

6. Wang TD, Chen Y, **Ronald JA**. In vivo evaluation of tumour-activatable minicircles for prostate cancer diagnosis and therapy. *World Molecular Imaging Congress*, Montreal, QC. September 2019. **[Oral Presentation]**
7. Hamilton AM, Martin PM, Flynn LE, Foster PJ, **Ronald JA**. Tracking stem cell delivery to triple negative breast cancer brain metastases using multimodal imaging. *World Molecular Imaging Congress*. Montreal, QC. September 2019. **[Poster Presentation]**
8. Nyström NN, Yip LCM, Carson JJJ, Scholl TJ, **Ronald JA**. A human photoacoustic and 3T magnetic resonance reporter gene system that uses the clinical agents indocyanine green and Gd-EOB-DTPA. *World Molecular Imaging Congress*. Montreal, QC. September 2019. **[Oral Presentation]**
9. Nyström NN, Liu HA, Zhang XA, Scholl TJ, **Ronald JA**. Of mice and Mn: Preclinical development of a gadolinium-free MRI probe targeting organic anion-transporting polypeptides. *World Molecular Imaging Congress*. Montreal, QC. September 2019. **[Oral Presentation]**
10. Nyström NN, Wang TD, **Ronald JA**. An Aerosolized Cancer-Activatable PET Reporter Gene System for Early Detection of Lung Cancer. *World Molecular Imaging Congress*. Montreal, QC. September 2019. **[Oral Presentation]**
11. Liu S, Nyström NN, Hamilton AM, **Ronald JA**. In vivo bioluminescence imaging of two cell populations using the highly sensitive luciferases Antares and Akaluc. *World Molecular Imaging Congress*, Montreal, QC. September 2019. **[Poster Presentation]**
12. Kelly JJ, Saeed-Marand M, Nyström NN, Chen Y, Evans MM, Hamilton AM, **Ronald JA**. A CRISPR/Cas9 Homology Independent Targeted Integration (HITI) System for Trimodality Reporter Gene Cell Tracking. *The Future of Molecular MR Workshop*. St John's, Newfoundland. July 2019. **[Oral Presentation]**
13. Nyström NN, Yip LCM, Carson JJJ, Scholl TJ, **Ronald JA**. In vivo cell tracking via a clinically-relevant reporter gene for fluorescence, photoacoustic, and magnetic resonance imaging at 3 Tesla. *The Future of Molecular MR Workshop*. St John's, Newfoundland. July 2019. **[Oral Presentation]**
14. Wang TD, Chen Y, **Ronald JA**. Developing tumour-activatable minicircles as novel agents for prostate cancer detection. *Oncology Research and Education Day*, London, ON. June 2019. **[Oral Presentation]**
15. Parkins KM, Dubois VP, Kelly J, Chen Y, Foster PJ, **Ronald JA**. Dual-luciferase imaging enables visualization of efficient tumour self-homing of metastatic breast lesions. *Oncology Research and Education Day*, London, Ontario. June 2019. **[Poster Presentation]**
16. Wang TD, Chen Y, **Ronald JA**. Using tumour-activatable minicircles to detect prostate cancer with a urine-based test. *Robarts Research Retreat*, London, ON. June 2019. **[Poster Presentation]**

17. Nyström NN, Yip LCM, Carson JJJ, Scholl TJ, **Ronald JA**. Multimodality OATP1B3-enhanced reporter gene imaging of engineered cells via fluorescence, photoacoustic, and magnetic resonance imaging. *International Society for Magnetic Resonance in Medicine*, Montreal, Canada. April 2019. **[Oral Presentation]**
18. Nyström NN, Yip LCM, Carson JJJ, Scholl TJ, **Ronald JA**. In vivo cell tracking via multimodality reporter-based fluorescence, photoacoustic, and magnetic resonance imaging at 3 Tesla. *London Health Research Day*. London, Canada. April 2019. **[Oral Presentation]**
19. Parkins KM, Dubois VP, Kelly J, Chen Y, Foster PJ, **Ronald JA**. Dual-luciferase imaging enables visualization of efficient tumour self-homing of metastatic breast lesions. *London Health Research Day*. London, Ontario. April 2019. **[Oral Presentation]**
20. Olin A, Deweyert A, Benoit S, Xu H, Hamilton AM, Kelly J, Chen X, Hebb M, **Ronald JA**. Novel *in vitro* models of cellular homing to gliomas using safely engineered brain-derived progenitor cells as proof of concept for *in vivo* studies. *London Health Research Day*. London, Canada. April 2019. **[Poster Presentation]**
21. Parkins KM, Dubois VP, Kelly J, Chen Y, Foster PJ, **Ronald JA**. Dual-luciferase imaging enables visualization of efficient tumour self-homing of metastatic breast lesions. *Imaging Network of Ontario*. London, Ontario. March 2019. **[Oral Presentation]**
22. Dubois VP, Zotova D, Parkins KM, Swick C, Kelly JJ, Hamilton AM, **Ronald JA**. Safe harbor targeted CRISPR/Cas9 tools for molecular-genetic imaging of cells in living subjects. *Imaging Network Ontario*. London, Ontario. March 2019. **[Oral Presentation]**
23. Hamilton AM, Foster PJ, **Ronald JA**. Earlier detection of spontaneous breast cancer lung metastases using an improved bioluminescence reporter. *Imaging Network of Ontario*. London, Canada. March 2019 **[Poster Presentation]**
24. Kelly JJ, Saeed-Marand M, Nyström NN, Chen Y, Evans MM, Hamilton AM, **Ronald JA**. A Genomic Safe Harbour Homology Independent Targeted Integration (HITI) CRISPR/Cas9 System for Efficient Tri-Modal Reporter Gene-Based In Vivo Cell Tracking. *Imaging Network Ontario (IMNO)*. London, Ontario. March 2019. **[Poster Presentation]**
25. Dubois VP, Zotova D, Parkins KM, Swick C, Kelly JJ, Hamilton AM, **Ronald JA**. Safe harbor targeted CRISPR/Cas9 tools for molecular-genetic imaging of cells in living subjects. *4th International Cancer Research Conference*. Windsor, Ontario. November 2018. **[Oral Presentation, Poster Presentation]** *Poster presentation award*.
26. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. Investigating the impact of a primary tumour on metastatic outgrowth in a syngeneic mouse model of breast cancer. *International Society for Magnetic Resonance in Medicine*. Paris, France. June 2018. **[Oral Presentation]** *1st Place Award*, Cellular and Molecular Imaging, ISMRM Congress.
27. Nyström NN, Hamilton AM, Xia W, Scholl TJ, **Ronald JA**. *Oatp1a1*-enhanced reporter gene imaging of triple negative breast cancer in preclinical animal models at 3

Tesla. International Society for Magnetic Resonance Imaging in Medicine (ISMRM) Conference. Paris, France. June 2018. **[Oral Presentation]** *2nd Place Award*, Cellular and Molecular Imaging, ISMRM Congress.

28. Parkins KM, Dubois V, Wong S, Hamilton AM, Foster PJ, **Ronald JA**. Cellular MRI reveals altered brain arrest of genetically-engineered metastatic breast cancer cells. *International Society for Magnetic Resonance in Medicine*. Paris, France. June 2018. **[Poster Presentation]**
29. Nystrom NN, Hamilton AM, Scholl TJ, **Ronald JA**. Through the Looking Glass: Non-invasive reporter gene imaging of breast cancer. *Oncology Research and Education Day*. London, Ontario, Canada. June 2018. **[Poster Presentation]** *Top Poster Prize*.
30. Dubois VP, Zotova D, Parkins KM, Swick C, Hamilton AM, **Ronald JA**. Genome editing of cell lines with reporter genes for *in vivo* cell tracking using CRISPR-cas9 technology. *Oncology Research and Education Day*, London, Ontario. June 2018. **[Poster Presentation]**
31. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. Investigating the impact of a primary tumour on metastatic outgrowth in a syngeneic mouse model of breast cancer. *Oncology Research and Education day*, London, Ontario. June 2018. **[Poster Presentation]**
32. Dubois VP, Zotova D, Parkins KM, Swick C, Hamilton AM, **Ronald JA**. Genome editing of cell lines with reporter genes for *in vivo* cell tracking using CRISPR-cas9 technology. *Robarts Research Retreat*, London, Ontario. June 2018. **[Poster Presentation]**
33. Nystrom NN, Hamilton AM, Scholl TJ, **Ronald JA**. Triple Negative Breast Cancer imaging via reporter gene-enhanced bioluminescence and magnetic resonance imaging. *Robarts Research Retreat*, London, Ontario, Canada. June 2018. **[Poster Presentation]** *Top Poster Prize*.
34. Hamilton AM, Foster PJ, **Ronald JA**. Engineering non-integrating lentiviral vectors for safe reporter-based imaging of mesenchymal stromal cells. *London Health Research Day*. London, Ontario. March 2018. **[Poster Presentation]**
35. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. Investigating the impact of a primary tumour on metastatic outgrowth in a syngeneic mouse model of breast cancer. *London Health Research Day*. London, Ontario. March 2018. **[Poster Presentation]**
36. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. Investigating the impact of a primary tumour on metastatic outgrowth in a syngeneic mouse model of breast cancer. *AC Burton Day*, Department of Medical Biophysics, Western University, London, Ontario. May 2018. **[Oral Presentation]**
37. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. Investigating the impact of a primary tumour on metastatic outgrowth in a syngeneic mouse model of breast

- cancer. *Cellular and Molecular Imaging Symposium*. London, Ontario. May 2018. [**Oral Presentation**]
38. Parkins KM, Dubois V, Wong S, Hamilton AM, Foster PJ, **Ronald JA**. Cellular MRI reveals altered brain arrest of genetically engineered metastatic breast cancer cells. *Cellular and Molecular Imaging Symposium*. London, Ontario. May 2018. [**Poster Presentation**]
 39. Hamilton AM, Foster PJ, **Ronald JA**. Engineering non-integrating lentiviral vectors for safe reporter-based imaging of mesenchymal stromal cells. *Cellular and Molecular Imaging Symposium*. London, Ontario. May 2018. [**Poster Presentation**]
 40. Dubois VP, Zotova D, Parkins KM, Swick C, Hamilton AM, **Ronald JA**. Genome editing of cell lines with reporter genes for *in vivo* cell tracking using CRISPR-cas9 technology. *Cellular and Molecular Imaging Symposium*, London, Ontario. May 2018. [**Poster Presentation**]
 41. Dubois VP, Zotova D, Parkins KM, Swick C, Hamilton AM, **Ronald JA**. Genome editing of cell lines with reporter genes for *in vivo* cell tracking using CRISPR-cas9 technology. *Inspiring Young Women in STEM*, London, Ontario. March 2018. [**Poster Presentation**]
 42. Saeed-Marand M, Nyström NN, Hamilton AM, **Ronald JA**. Homology Independent Targeted Integration (HITI) CRISPR/Cas9 Systems for Efficient Reporter Gene Knock-In in Cells. *Inspiring Young Women in STEM*. London, Ontario. March 2018. [**Poster Presentation**]
 43. Dubois VP, Zotova D, Parkins KM, Swick C, Hamilton AM, **Ronald JA**. Genome editing of cell lines with reporter genes for *in vivo* cell tracking using CRISPR-cas9 technology. *Western University Health and Research Conference*, London, Ontario. March 2018. [**Poster Presentation**]
 44. Hamilton AM, Foster PJ, **Ronald JA**. Engineering non-integrating lentiviral vectors for safe reporter-based imaging of mesenchymal stem cells. *Imaging Network of Ontario (ImNO) Symposium*. Toronto, Ontario. March 2018. [**Oral Presentation**]
 45. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. Investigating the impact of a primary tumour on metastatic outgrowth in a syngeneic mouse model of breast cancer. *Imaging Network of Ontario Symposium*. London, Ontario. March 2018. [**Poster Presentation**]
 46. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. Investigating the impact of a primary tumour on metastatic outgrowth in a syngeneic mouse model of breast cancer. *Stanford University, Molecular Imaging Program & Radiological Science Laboratories*, California, USA. January 2018. [**Oral Presentation**]
 47. Parkins KM, Dubois V, Hamilton AM, Makela A, **Ronald JA**, Foster PJ. A multimodality imaging model to study the impact of a primary tumour on metastasis. *Canadian Cancer Research Conference*. Vancouver, CA. November 2017. [**Poster Presentation**]
 48. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. Building new imaging technologies to study breast cancer metastasis in the brain. *Internal review and*

site visit by the Breast Cancer Society of Canada, London, Ontario. June 2017. **[Oral Presentation]**

49. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. A multimodality imaging model to study concomitant tumour resistance. *Oncology Research and Education Day*, London, Ontario. June 2017. **[Poster Presentation]**
50. Parkins KM, Dubois V, Makela A, Hamilton AM, **Ronald JA**, Foster PJ. A multimodality imaging model to study concomitant tumour resistance. *Robarts Research Retreat*. London, Ontario. June 2017. **[Oral Presentation]**
51. Robb KP, Parkins KM, **Ronald JA**, Dekaban GA, Flynn LE. The role of inflammation in adipose-derived stromal cell-mediated soft tissue regeneration within decellularized adipose tissue scaffolds. *Canadian Connective Tissue Conference*. Montreal, Quebec. May 2017. **[Poster Presentation]**
52. Berish RB, Hamilton AM, **Ronald JA**, Leong HS. Bioluminescent and CryoViz Imaging of a Mouse Model of Prostate Cancer. *London Health Research Day*. London, Ontario. March 2017. **[Poster Presentation]**
53. Le TNT, Lim H, Martínez-Santesteban FM, Parkins KM, Scholl TJ, **Ronald JA**. Characterizing an orthotopic C6 glioblastoma rat model with multiparametric magnetic resonance imaging and bioluminescence imaging. *London Health Research Day*. London, Ontario. March 2017. **[Oral Presentation]**
54. Nystrom NN, Hamilton AM, Martínez-Santesteban FM, Lim H, Scholl TJ, **Ronald JA**. Novel reporter genes for cell tracking via magnetic resonance imaging. *London Health Research Day*. London, Ontario. March 2017. **[Poster Presentation]**
55. Parkins KM, Hamilton AM, **Ronald JA**, Foster PJ. A multimodality imaging model to study concomitant tumour resistance. *London Health Research Day*. London, Ontario. March 2017. **[Poster Presentation]**
56. Robb KP, Brown CFC, Parkins KM, **Ronald JA**, Dekaban GA, Flynn LE. The role of inflammation in adipose-derived stem cell-mediated soft tissue regeneration within bioscaffolds. *London Health Research Day*. London, Ontario. March 2017. **[Poster Presentation]**
57. Le TNT, Lim H, Hamilton AM, Martínez-Santesteban FM, Parkins KM, Scholl TJ, **Ronald JA**. Characterizing an orthotopic C6 glioblastoma rat model with multiparametric magnetic resonance imaging and bioluminescence imaging. *Imaging Network of Ontario*. London, Ontario. March 2017. **[Oral Presentation]**
58. Parkins KM, Hamilton AM, **Ronald JA**, Foster PJ. A multimodality imaging model to study concomitant tumour resistance. *Imaging Network of Ontario*. London, Ontario. March 2017. **[Oral Presentation]**

59. Nystrom NN, Hamilton AM, Martínez-Santiesteban FM, Lim H, Scholl TJ, **Ronald JA**. OATP1A1 as a novel clinical-field strength MRI reporter gene for cell tracking. *Imaging Network of Ontario*. London, Ontario. March 2017. **[Oral Presentation]**
60. Liu S, Nyström NN, **Ronald JA**. OATP1A1 as a novel dual-modality reporter gene for cell tracking in living subjects. *Thames Valley Science and Engineering Fair*. London, Ontario. March 2017. **[Poster Presentation]** *Awarded Research Western Imagination Prize*.
61. Le TNT, Lim H, Hamilton AM, Parkins KM, Martínez-Santiesteban FM, Scholl TJ, **Ronald JA**. Towards imaging tumour metabolism using novel multi-modality molecular imaging in an orthotopic rat model of glioblastoma multiforme. *World Molecular Imaging Congress*. New York, USA. September 2016. **[Poster Presentation]**
62. Parkins KM, Hamilton AM, Foster PJ, **Ronald JA**. Filling the MR void with BLI: A multimodality imaging model to track viable cancer cells from single arrest to metastasis. *World Molecular Imaging Congress*. New York, USA. September 2016. **[Poster Presentation]**
63. Parkins KM, Hamilton AM, Makela AV, Foster PJ, **Ronald JA**. Filling the MR void with BLI: A multimodality imaging model to track viable cancer cells from single arrest to metastasis. *London Imaging Discovery Conference*. London, ON. June 2016. **[Poster Presentation]**
64. Liu S, Hamilton AM, **Ronald JA**. Engineering gene vectors for long-term tracking of cell fate in animals with bioluminescence imaging. *Robarts Research Retreat*. London, ON. June 2016. **[Oral Presentation]**
65. Le TNT, Lim H, Hamilton AM, Parkins AM, Martínez-Santiesteban FM, Scholl TJ, **Ronald JA**. Towards the evaluation of treatment response of glioma in a rat model of cancer using hyperpolarized ¹³C magnetic resonance spectroscopic imaging and bioluminescence imaging. *Robarts Research Retreat*. London, ON. June 2016. **[Poster Presentation]**
66. Parkins KM, Hamilton AM, Makela AV, Foster PJ, **Ronald JA**. A multimodality imaging model to monitor cancer metastasis. *Robarts Research Retreat*. London, ON. June 2016. **[Poster Presentation]**
67. Liu S, Hamilton AM, **Ronald JA**. Engineering gene vectors for long-term tracking of cell fate in animals with bioluminescence imaging. *Oncology Research and Education Day*. London, ON. June 2016. **[Poster Presentation]**
68. Parkins KM, Hamilton AM, Makela AV, Foster PJ, **Ronald JA**. A multimodality imaging model to monitor cancer metastasis. *Oncology and Research Education Day*. London, ON. June 2016. **[Poster Presentation]**
69. Parkins KM, Hamilton AM, **Ronald JA**, Foster PJ. Monitoring breast cancer metastasis with a multimodality imaging model. *London Health Research Day*. March 2016. **[Poster Presentation]** Ranked top 100 abstract
70. Le TNT, Lim H, Hamilton AM, Parkins KM, Martínez-Santiesteban FM, Scholl TJ, **Ronald JA**. Towards using hyperpolarized magnetic resonance spectroscopic imaging to measure

therapeutic response of glioblastoma in a rat model of cancer. *London Health Research Day*. March 2016. **[Poster Presentation]**

71. Parkins KM, Hamilton AM, Makela AV, Foster PJ, **Ronald JA**. The development of a multimodality imaging model to monitor breast cancer metastasis. *Imaging Network of Ontario*. March 2016. **[Poster Presentation]**
72. Le TNT, Lim H, Hamilton AM, Parkins KM, Martínez-Santesteban FM, Scholl TJ, **Ronald JA**. Towards assessing therapeutic response of glioblastoma in a rat model of cancer using novel multi-modality imaging. *Imaging Network of Ontario*. March 2016. **[Poster Presentation]**
73. Liu S, Hamilton AM, **Ronald JA**. Engineering novel reporter gene vectors for improved in vivo cellular imaging. *Canada Wide Science Fair*. May 2016. **[Poster Presentation]**
74. Liu S, Hamilton AM, **Ronald JA**. Engineering gene vectors for long-term tracking of cell fate in animals with bioluminescence imaging. *Thames Valley Science and Engineering Fair*. March 2016. **[Poster Presentation]** Gold medal winner
75. Chen Y, Yang Y, Rogers KA, **Ronald JA**, Rutt BK. *In Vivo* Visualization of Iron-Rich Amyloid Plaques in Cholesterol-Fed Rabbits using Clinical Field-Strength Magnetic Resonance Imaging. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. June 2016. **[Poster Presentation]**
76. D'Souza A, **Ronald JA**, Chuang H-Y, Gambhir SS. Cell tracking in mice using an integrated imaging and RNA-based blood reporter strategy. *World Molecular Imaging Congress*, Honolulu, HI, September 2015. **[Poster Presentation]**
77. **Ronald JA**, Kim BS, Namavari M, Yan X, Chuang H-Y, Benjamin J, Negrin R, Gambhir SS. A novel strategy for PET imaging of graft versus host disease in living subjects. *World Molecular Imaging Congress*, Savannah, GA, September 2013. **[Oral Presentation]**
78. **Ronald JA**, Chuang H-Y, Dragulescu-Andrasi A, Hori S, Gambhir SS. Tumor-specific minicircles as a novel safe technology for cancer screening via blood-based and molecular imaging assays. *World Molecular Imaging Congress*, Savannah, GA, September 2013. **[Poster Presentation]** Semi-finalist for poster award.
79. **Ronald JA**, Cusso L, Dragulescu-Andrasi A, Gambhir SS. A Novel Self-Replicating Minicircle Strategy for Safer Long-Term Monitoring of Cell Therapies. *World Molecular Imaging Congress*, Dublin, Ireland, September 2012. **[Oral Presentation]**
80. **Ronald JA**, Katzenberg R, Nielsen C, Jae HJ, Hofmann L, Gambhir SS. A novel targeting strategy for gene therapy of hepatocellular carcinoma using microRNAs. *Society of Interventional Radiology Annual Meeting*, Chicago, IL, March 2011. **[Oral Presentation]**
81. Rao J, Rutt BK, Liang G, Ma N, Chen Y, Ma ML, Ye D, **Ronald JA**. Controlled self-assembly of nanoparticles: a general template for developing "smart" MRI contrast agents. *World Molecular Imaging Congress*, Kyoto, Japan. September 2010. **[Oral Presentation]**

82. **Ronald JA**, Katzenberg R, Nielsen C, Jae HJ, Hofmann L, Gambhir SS. A novel paradigm to markedly enhance the specificity of gene expression in hepatocellular carcinoma using microRNAs. *World Molecular Imaging Congress*, Kyoto, Japan. September 2010. **[Oral Presentation]**
83. **Ronald JA**, Chen Y, Rogers KA, Kerwin WS, Rutt BK. Non-invasive quantification of atherosclerotic plaque inflammation and neovascularity in a rabbit model using bright-blood dynamic contrast-enhanced MRI. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Stockholm, Sweden. June 2010. **[Poster Presentation]**
84. Chen Y, **Ronald**, Rodriguez E, Chen JW, Rogers KA, Rutt BK. Nuclear magnetic dispersion studies of MR sensor agents for myeloperoxidase imaging. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Stockholm, Sweden. June 2010. **[Poster Presentation]**
85. Kitzler HH, **Ronald JA**, Chen Y, Hammond HH, Rutt BK. Direct visualization of b-amyloid plaques in Alzheimer's disease brain tissue using clinical field-strength MRI. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Honolulu, HI. April 2009. **[Poster Presentation]**
86. Chen Y, **Ronald JA**, Kitzler H, Alejski A, Rogers KA, Rutt BL. High resolution MRI of xanthogranuloma of choroid plexus induced by hypercholesterolemia. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Honolulu, HI. April 2009. **[Poster Presentation]**
87. **Ronald JA**, Chen Y, Belisle A, Hamilton AM, Rogers KA, Hegele RA, Misselwitz B, Rutt BK. Fibrocellular tissue composition and neovascularization are critical determinants of Gadofluorine-M enhanced MRI of atherosclerotic plaques. *World Molecular Imaging Congress*. Nice, France. September 2008. **[Poster Presentation]**
88. **Ronald JA**, Chen Y, Bernas L, Hegele RA, Rogers KA, Rutt BK. Direct visualization of β -amyloid plaques in hypercholesterolemic rabbits using clinical field-strength magnetic resonance imaging. *International Conference on Alzheimer's Disease (ICAD)*. Chicago, IL. July 2008. **[Poster Presentation]**
89. Chen Y, **Ronald JA**, Hegele RA, Rogers KA, Rutt BK. Accumulation of β -amyloid plaques with microglial phagocytosis in rabbits fed cholesterol-enriched diets. *International Conference on Alzheimer's Disease (ICAD)*. Chicago, IL. July 2008. **[Oral Presentation]**
90. **Ronald JA**, Chen Y, Bernas LM, Hegele RA, Rogers KA, Rutt BK. Direct visualization of senile plaque using clinical field-strength MRI and a cholesterol-fed rabbit model of Alzheimer's Disease. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Toronto, ON. May 2008. **[Poster Presentation]**
91. Chen Y, **Ronald JA**, Bernas LM, Hegele RA, Rogers KA, Rutt BK. Iron is a prerequisite for direct visualization of Alzheimer's plaques in animal models. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Toronto, ON. May 2008. **[Poster Presentation]**

92. Hamilton AM, MacLean KA, Drangova M, **Ronald JA**, Rutt BK, Boughner DR, Rogers KA. Evaluation of statin therapy in a rabbit model of aortic valve sclerosis using high resolution MRI. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Toronto, ON. May 2008. **[Poster Presentation]**
93. Belisle A, **Ronald JA**, Rogers KA, Rutt BK. High-resolution multi-contrast MRI of rabbit atherosclerosis using clinical pulse sequences. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Toronto, ON. May 2008. **[Poster Presentation]**
94. **Ronald JA**, Chen Y, Bernas L, Hegele RA, Rogers KA, Rutt BL. The cholesterol-fed rabbit model of Alzheimer's Disease: Direct visualization of senile plaques using clinical-field strength MRI. *Joint Molecular Imaging Conference*. Providence, RI. September 2007. **[Poster Presentation]**
95. **Ronald JA**, Chen JW, Rogers RA, Hegele RA, Querol M, Bogdanov A, Rutt BK, Weissleder R. In vivo identification of "active" inflammation in experimental atherosclerosis via myeloperoxidase MR imaging. *Joint Molecular Imaging Conference*. Providence, RI. September 2007. **[Oral Presentation]**
96. Hamilton AM, Khan Z, Boughner DR, Drangova M, **Ronald JA**, Rutt BK, Laceyfield JC, Rogers KA. Evaluating aortic valve remodeling in a rabbit model using high resolution MRI. *Imaging Network of Ontario Symposium*. Toronto, ON. March 2007. **[Poster Presentation]**
97. **Ronald JA**, Chen J, Rogers KA, Hegele RA, Querol M, Bogdanov A, Weissleder R, Rutt BK. Molecular MRI of myeloperoxidase activity in experimental atherosclerosis using a novel "activatable" paramagnetic contrast agent. *Imaging Network of Ontario Symposium*. Toronto, ON. March 2007. **[Poster Presentation]**
98. **Ronald JA***, Chen J*, Rogers KA, Hegele RA, Querol M, Bogdanov A, Weissleder R, Rutt BK. Molecular MRI of myeloperoxidase activity in experimental atherosclerosis using a novel paramagnetic "smart" contrast agent. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Berlin, Germany. May 2007. *Authors contributed equally. **[Poster Presentation]**
99. de Smet M, **Ronald JA**, Rogers KA, Hegele RA, Nicolay K, Rutt BK. Comparison of four clinically approved gadolinium-based contrast agents for imaging of experimental atherosclerosis in a rabbit model. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Berlin, Germany. May 2007. **[Poster Presentation]**
100. **JA Ronald***, Chen JW*, Rogers KA, Querol M, Bogdanov A, Rutt BK, Weissleder R. Molecular imaging of myeloperoxidase activity in rabbit atherosclerotic plaques. *Annual Meeting of the Society of Molecular Imaging*. Waikoloa Village, HI. August 2006. * Authors contributed equally. **[Poster Presentation]**
101. **Ronald JA**, Zhang J, Hamilton AM, Rogers KA, Hegele RA, Rutt BK. Contrast-enhanced MRI at 3T of experimental atherosclerotic lesions using QIR-FSE and DTPA(Gd). *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Seattle, WA. May 2006. **[Oral Presentation]**

102. Heyn C, **Ronald JA**, Ramadan SS, Snir JA, Barry AM, MacKenzie LT, Mikulis D, Palmieri D, Bronder JL, Steeg PS, Yoneda T, McDonald IC, Chambers AF, Rutt BK, Foster PJ. In vivo tracking of growth and dormancy of solitary cells in a mouse model of breast cancer metastasis to brain using MRI. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. Seattle, WA. May 2006. **[Poster Presentation]**
103. **Ronald JA**, Heyn C, Alejski A, Weissleder R, Hegele RA, Rogers KA, Rutt BK. High resolution *in vivo* and *ex vivo* MR imaging of experimental atherosclerosis using monocrySTALLINE iron oxide nanoparticles (MION). *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. South Beach, Miami, FL. May 2005. **[Poster Presentation]**
104. **Ronald JA**, Rogers KA, Walcarius R, Robinson JF, Hegele RA, Rutt BK. High resolution MRI of experimental atherogenesis: Quantitative analysis of vessel wall traits over time. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. South Beach, Miami, FL. May 2005. **[Poster Presentation]**
105. Heyn C, **Ronald JA**, MacKenzie L, Chambers AF, Rutt BK, Foster PJ. MRI of single SPIO labeled cells in mice on a 1.5T clinical scanner. *International Society for Magnetic Resonance in Medicine Scientific meeting and exhibition*. South Beach, Miami, FL, USA. May 2005. **[Poster Presentation]**
106. **Ronald JA**, Heyn C, Alejski A, Weissleder R, Hegele RA, Rogers KA, Rutt BK. Magnetic resonance imaging of experimental atherosclerosis using superparamagnetic iron oxide (SPIO) nanoparticles. *Young Investigator's Forum*. Winnipeg, MA. April 2005. **[Poster Presentation]**
107. **Ronald JA**, Heyn C, Alejski A, Weissleder R, Hegele RA, Rogers KA, Rutt BK. MR imaging of atherosclerotic plaques using monocrySTALLINE iron oxide nanoparticles (MION). *Imaging Network of Ontario*. Toronto, ON. March 2005. **[Poster Presentation]**
108. Heyn C, **Ronald JA**, MacKenzie L, Chambers AF, Rutt BK, Foster PJ. Imaging single cells in mouse brain using MRI. *Imaging Network of Ontario*. Toronto, ON. March 2005. **[Poster Presentation]**
109. Cimini M, Boughner DR, **Ronald JA**, Johnston DE, Rogers KA. Dermal fibroblast culture on a collagen matrix is optimized for tissue engineering efforts. *Advances in Tissue Engineering and Biology of Heart Valves*. Florence, Italy. September 2004. **[Poster Presentation]**
110. Rogers KA, **Ronald JA**, Walcarius R, Robinson JF, Hegele RA, Rutt BK. High resolution magnetic resonance imaging of experimental atherosclerosis in the cholesterol-fed rabbit. *Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology*. San Francisco, CA. May 2004. **[Poster Presentation]**
111. Cimini M, **Ronald JA**, Boughner DR, Rogers K. Early aortic valve sclerosis; A rabbit model. *Society for Heart Valve Disease biennial meeting*. Paris, France. June 2003. **[Poster Presentation]**

112. Cimini M, Boughner DR, **Ronald JA**, Rogers KA. A rabbit model for early aortic valve sclerosis. *Canadian Journal of Cardiology*, Oct; 19 (Suppl. A), 2003. **[Poster Presentation]**

TEACHING

PEDAGOGY

Sept 2016 to present	Course Coordinator, Medical Biophysics 3970Z Medical Biophysics Laboratory Course
Sept 2015 to present	Lecturer, Medical Biophysics 9518B Molecular Imaging 5 lectures per year since 2022
Sept 2015 to 2020	Lecturer, Medical Biophysics 2582B Imaging in Biology 1 lecture per year

ADVISORY COMMITTEES

2023 to Present	Samantha Flood, MSc Candidate, Medical Biophysics
2022 to Present	Sarah From, MSc Candidate, Biomedical Engineering
2022 to Present	Rober Abdo, MSc Candidate, Biochemistry
2021 to Present	Daniel Nucifora, MSc Candidate, Biochemistry
2021 to 2022	Farah Hasan, MSc Candidate, Biochemistry
2020 to Present	Lohiny Balendran, MSc Candidate, Anatomy & Cell Biology
2020 to Present	Lei Qi, PhD Candidate, Microbiology & Immunology
2018 to 2023	Natasha Knier, PhD Candidate, Medical Biophysics
2018 to 2020	Joanne Tang, MSc, Medical Biophysics
2016 to 2022	Jenna Kitz, PhD, Anatomy & Cell Biology

CURRENT LAB

RESEARCH ASSOCIATES

John Kelly, PhD

Research Associate (March 2018 to Present)

Honours:

Imaging Network of Ontario (ImNO) 2022 Oral Presentation Award

Synthego Genome Editing Grant 2019 - \$50,000

World Molecular Imaging Society – 2019 Managers of Molecular Imaging Laboratories (MOMIL) Registration Grant

Ying Xia, PhD

Research Associate (March 2020 to Present)

POSTDOCTORAL FELLOWS

Rafael Sanchez-Pupo, PhD

Postdoctoral Fellow (October 2021 to Present)

Honours:

World Molecular Imaging Congress 2023 – Top Abstract for Imaging in Cell and Immune Therapies (ICIT) Interest Group

RESEARCH ASSISTANTS

Victor Velehorsi, MSc

Research Assistant (May 2023 to present)

MSc Microbiology & Immunology (May 2022 to April 2023); Co-Supervisor: Mansour Haeryfar

DOCTORAL STUDENTS

Sean McRae

PhD Candidate Medical Biophysics (September 2020 to Present); Co-Supervisor: Timothy Scholl

Honours:

Ontario Graduate Scholarship (OGS) 2023-2024

Translational Breast Cancer Research Unit (TBCRU) Student Scholarship 2022-2023

TBCRU Student Scholarship 2021-2022

TBCRU Student Scholarship 2020-2021

Melissa Evans

PhD Candidate Medical Biophysics (September 2020 to Present)

4th Year Co-Op Student University of Waterloo (Jan 2019 to August 2019 and May 2018 to August 2018)

Honours:

NSERC Doctoral CGS-D 2022-2025

NSERC Masters CGS-M 2021-2022

Robarts Research Retreat Top Oral Presentation 2021

Western's Centre for Advanced Materials and Biomaterials Day Top Oral Award 2021

Translational Breast Cancer Research Unit (TBCRU) Student Scholarship 2020-2021

MASTERS STUDENTS

Yanghao (Jerry) Fu

MSc Candidate Medical Biophysics (September 2022 to present); Co-Supervisor: Samuel Asfaha

Undergraduate Student (2018 to 2022)

Program in Experiential Learning (PEL) High School Student (February 2017 to 2018)

Honours:

NSERC Masters CGS-M 2022-2023

Ontario Graduate Scholarship (OGS) 2022-2023

Al-Shumoos Fadhil

MSc Candidate Medical Biophysics (September 2022 to present); Co-Supervisor: Lauren Flynn

Joshua Krautner

MSc Candidate Medical Biophysics (September 2023 to present)

Undergraduate Student (December 2021 to August 2022)

UNDERGRAD STUDENTS

Anthony Arena

January 2023 to present

Jasmine Lau

May 2022 to present

Honours:

NSERC USRA 2023

NSERC USRA 2022

Rick Cui

May 2023 to present

Dongkyu (DK) Kim

May 2023 to present

Madhumita Chandrasekaran

Sept 2023 to present

HIGH SCHOOL STUDENTS

Isabella Bu

Sept 2023 to present

ALUMNI

RESEARCH ASSOCIATES

Yuanxin Chen, PhD

Research Associate (June 2015 to July 2019; October 2019 to July 2021)

Amanda Hamilton, PhD

Research Associate (June 2015 to January 2019)

Honours:

World Molecular Imaging Society – 2019 Managers of Molecular Imaging Laboratories (MOMIL) Registration Grant

DOCTORAL STUDENTS

Nourhan Shalaby, PhD

PhD Medical Biophysics (September 2018 to August 2023); Co-Supervisor: Timothy Scholl
Thesis Title: *Activatable Synthetic Biomarker Systems for Gene- and Cell-Based Detection and Theranostics*

Honours:

NSERC Doctoral PGS-D 2020-2023

Windsor Cancer Research Group International Conference 2020 Oral Award

Translational Breast Cancer Research Unit (TBCRU) Student Scholarship 2019-2020

TianDuo (TD) Wang, PhD

PhD Medical Biophysics (September 2017 to January 2023); Co-Supervisor: Timothy Scholl
Thesis Title: *Activatable Synthetic Biomarker Systems for Gene- and Cell-Based Detection and Theranostics*

Honours:

European Molecular Imaging Meeting (EMIM) 2022 Young Investigator Award 2022 – top abstract and oral presentation out of >500 submissions

NSERC Doctoral PGS-D 2020-2023

Morris Kroll Memorial Award 2021

Top Poster Award – 18th Oncology Research and Education Day, London, ON 2021

First Place Oral Presentation Award – 19th Imaging Network of Ontario (ImNO) 2021

Queen Elizabeth II Graduate Scholarship in Science and Technology (declined) 2020

A.C. Groom Award - Department of Medical Biophysics, UWO 2020

Norman E. Nixon Marie Ramo Nixon Award – Schulich School of Medicine and Dentistry UWO 2020

NSERC Masters CGS-M 2018-2019

Western Graduate Research Scholarship 2018-Present

Canadian Cancer Society – Travel Award 2019

World Molecular Imaging Congress 2019 – Top Abstract - Highlighted During Plenary

AC Burton Award for Best MSc. Departmental Seminar 2018

Centre for Advanced Materials and Biomaterials Research UWO – Travel Award 2019

Ontario Graduate Scholarship (declined) 2018

3rd Place Oral Presentation Award – Imaging Network of Ontario (ImNO) 2018

Nivin Nystrom, PhD

PhD Medical Biophysics (September 2016 to June 2020); Co-Supervisor: Timothy Scholl
Thesis Title: *A Genetically-Encoded Reporter for In Vivo Imaging in Deep Tissues*

Honours:

The Lucille & Norton Wolf London Health Research Day Trainee Publication Award 2019 – best publication in 2018

Young Investigator Award – Future of Molecular MRI Meeting 2019

NSERC PGS-D Scholarship 2018-2021

2nd Top Talk at ISMRM Cellular Imaging Study Group – Paris, France 2018

Top Poster Award at Oncology Research and Education Day 2018

Top Poster Award at Robarts Research Day 2018

Top Team Prize, Proteus Innovation Competition 2018

Molecular Imaging Travel Award 2018

Invited Student Speaker, Ontario Genomics 2017

1st Place Oral Presentation, London Imaging Discovery Day 2017

Graduate Innovation Scholar Award 2017

NSERC CGS-M Scholarship 2017-2018

Translational Breast Cancer Research Unit (TBCRU) Student Scholarship 2017-2018

Katie Parkins, PhD

PhD Medical Biophysics (June 2015 to August 2019); Joint Supervisor: Paula Foster
Thesis Title: *Investigating the Mechanisms of Breast Cancer Metastasis Using Multimodality Molecular Imaging*

Honours:

NSERC PGS-D Scholarship 2018-2021

Top 3 Finalist Young Investigator Award at World Molecular Imaging Congress 2019

Top Talk Overall at ISMRM Cellular Imaging Study Group – Paris, France 2018

Top poster presentation at Imaging Network of Ontario (ImNO) Symposium 2018

Cancer Research and Technology Transfer Scholar 2017-2018

Ontario Graduate Scholarship QEII Science and Technology Award 2017-2018

Schulich School of Medicine - Norma E. Nixon Marie Ramo Nixon Award 2017

Top poster presentation overall at London Oncology Research and Education Day 2017

Translational Breast Cancer Research Unit (TBCRU) Student Scholarship 2015-2016 & 2016-2017 & 2017-2018

The Lucille & Norton Wolf London Health Research Day Trainee Publication Award 2017 - Best Publication in 2016

MASTERS STUDENTS

Shirley Liu, MSc

MSc Medical Biophysics (September 2021 to June 2023); Co-Supervisor: Timothy Scholl
Thesis Title: *Evaluation of DNA Minicircles for Delivery of Adenine Base Editors using Activatable Reporter Imaging Systems*
High School and Undergraduate Student (September 2015 to August 2021)

Honours:

NSERC Masters Award CGS-M 2021-2023
Windsor Cancer Research Group International Conference 2020 Poster Award
NSERC Undergraduate Student Research Award (USRA) 2020
NSERC USRA 2019
NSERC USRA 2018
Gold Medal at Thames Valley Science and Engineering Fair 2016
Competed at Canada-Wide Science Fair in Montreal 2016
Research Western Imagination Prize at Thames Valley Science Fair 2017

Veronica Dubois, MSc

MSc Medical Biophysics (September 2018 to May 2021); Co-Supervisor: Paula Foster
Thesis Title: *In Vivo Detection of CAR-T Cell Immunotherapy using 3 Tesla Fluorine-19 MRI*
Undergrad Student (January 2017 to August 2018)

Honours:

Ontario Graduate Scholarship (OGS) 2020-2021
Translational Breast Cancer Research Unit (TBCRU) Student Scholarship 2020-2021
Translational Breast Cancer Research Unit (TBCRU) Student Scholarship 2019-2020
Top Oral Presentation Award at Windsor Cancer Research Group's 4th Biennial International Cancer Research Conference 2018
Top Poster Award at Robarts Research Day 2018

Ryan Williams, MSc

MSc Medical Biophysics (September 2019 to December 2021); Co-Supervisor: Paula Foster
Thesis Title: *Exploring Multimodal Cancer Cell Tracking Using Magnetic Particle Imaging and Akaluc BLI*

Andrew Olin, MSc

MSc Neuroscience (September 2018 to July 2023); Co-Supervisor: Matthew Hebb
Thesis Title: *Exploring Brain-Derived Progenitor Cells as a Therapeutic Delivery System to Glioblastoma*

Trung (Adam) Le, MSc

MSc Medical Biophysics (Sept 2015 to November 2017); Co-Supervisor: Timothy Scholl
Thesis Title: *Characterization of an Orthotopic Rat Model of Glioblastoma Using Multiparametric Magnetic Resonance Imaging and Bioluminescence Imaging*

Richard Berish, MSc

MSc Microbiology & Immunology (June 2016 to May 2017); Co-Supervisor: Hon Leong

Honours:

Dr. Frederick W. Luney Graduate Scholarship 2016

UNDERGRAD STUDENTS

Caroline Seguin

Undergraduate Co-op McMaster University (May 2023 to August 2023)

Ma'az Syed

Undergraduate Student (December 2021 to April 2023)

Ivy Verriet

Undergraduate Student (September 2022 to May 2023)

Hongdao (Davis) Dong

Medical Student (January 2020 to May 2022)

Philipp Guevorguian

Undergraduate Student (January 2020 to April 2020)

Ramon Brown

Undergraduate Student (September 2019 to April 2020)

Rangana Guruge

Undergraduate Student (September 2019 to April 2020)

Moe Sae-Marand

Undergraduate Student (May 2017 to August 2018)

Vyshnave Jeyabalan

Undergraduate Student (August 2017 to April 2018)

Lama Mounaimne

Undergraduate Student (September 2017 to April 2018)

Honours:

Biology 4999E Thesis Day Award Winner

Tyler Boulanger

Undergraduate Student (September 2017 to April 2018)

Yingxue Sun

Undergraduate Student (May 2017 to April 2018)

Nancy Liu

Undergraduate Student (June 2017 to May 2018)

Darya Zotova

Undergraduate Student (May 2016 to August 2017)

Gurkamal Deol

Undergraduate Student (September 2016 to April 2017)

Connor Swick

Undergraduate Student (September 2015 to August 2016)

HIGH SCHOOL STUDENTS

Haran Kandlakuti

High School Student (October 2022 to April 2023)

Danish Mahmood

Program in Experiential Learning (PEL) High School Student (June 2019 to August 2021)

Honours:

Team Canada - 2020 Regeneron International Science and Engineering Fair (ISEF) – selected as one of top 8 high school scientists in Canada

Bradley Xiang

Program in Experiential Learning (PEL) High School Student (October 2019 to April 2020)

Ruide Li

Program in Experiential Learning (PEL) High School Student (September 2016 to May 2017)

SERVICE

Leadership

2023 to present
2022 to present
2022 to present
2021 to present

2019 to present

2015 to 2022

Schulich Research Council - member
Director - Imaging Labs at Robarts Research Institute
Robarts Research Institute Executive Committee
Translational Immuno-Oncology Research Group (TIORG) ([link](#)) – Co-Founder and Co-Leader
World Molecular Imaging Society Canadian Chapter (WMISCan) ([link](#)) - Co-Founder and Co-Leader
Cures4Glioma Network ([link](#)) - Co-Founder and Co-Leader - Involved directing a group of clinicians and basic scientists that have a common scientific interest in brain tumour research. Network has participation of researchers from London, Windsor, Toronto, Germany, and USA.

Departmental/Institutional Committees

2023 to present

Biomedical Imaging Research Centre (BIRC) Operational Committee - member

2022 to present

Medical Biophysics Undergrad Curriculum Committee - member

2020 to present

Medical Biophysics Graduate Committee - member

2019 to 2022

Medical Biophysics Annual Performance Evaluation (APE) Committee - member

2018 to present

Medical Biophysics Workload Committee - member

2018

Medical Biophysics APE Committee - alternate member (participated in APE evaluations for 2018).

2018 to present

Centre for Translational Cancer Research (CTCR) - Management Committee

2018 to 2022

The Centre for Advanced Materials and Biomaterials Research (CAMBR) - Operational Committee

2016 to present

Medical Biophysics Undergraduate Committee - member

Journal Editorial Boards

2023-

npj Imaging - Associate Editor – Nature Publishing Group

2022-

Molecular Imaging and Biology – Senior Editor

(Emerging Technologies) – Springer Publishing Group

Journal Referee

I am a reviewer on an ad-hoc basis for the following journals:

2023-

PLoS One

2022-

Investigative Radiology

2022-

Molecular Therapy: Nucleic Acids

2021-

Frontiers in Oncology

2020-

Nature Reviews Cancer

2019-

Nano Letters

2019-

Magnetic Resonance in Medicine

2018-

WIREs Nanomedicine & Nanotechnology

2018-	Molecular Pharmaceutics
2018-	Molecular Imaging & Biology
2018-	Photoacoustics
2017-	Advanced Biosystems
2017-	Theranostics
2016-	Molecular Therapy: Methods & Clinical Development
2016-	Oncotarget
2015-	Scientific Reports

Grant Panels

2022 Fall	CIHR Project Grant – Cancer Progression and Therapeutics (CPT-2) Panel
2022 Spring	CIHR Project Grant – Cancer Progression and Therapeutics (CPT-2) Panel
2022	NIH Special Emphasis Panel, IMST-U 02 (R21/R01)
2022	Schulich Collaborative Research Seed Grants (CRSG)
2021 Fall	CIHR Project Grant – Cancer Progression and Therapeutics (CPT-2) Panel
2021 Spring	CIHR Project Grant – Cancer Progression and Therapeutics (CPT-2) Panel
2020	NIH-NCI Synthetic Biomarkers in Cancer Panel
2019	New Frontiers Research Fund Exploration Grant – External Reviewer (1 grant)
2019	NSERC Discovery Grant - External Reviewer (1 grant)
2018	Prostate Cancer Canada – Movember Translation Acceleration Grant in Predictive Markers - Scientific Officer
2018	Western Petro-Canada Young Innovator Award - Reviewer
2017	United States-Israel Binational Science Foundation - Reviewer (1 grant)

Scholarship/Fellowship/Travel Award Referee

2023	Schulich Summer Research Awards
2022	Schulich Summer Research Awards
2021	MITACS Accelerate Fellowship
2019	MITACS Accelerate Fellowship
2019	Pamela Greenaway-Kohlmeier Translation Breast Cancer Research Unit (TBCRU) Traineeship Program Awards
2019	CIHR Postdoctoral Fellowships
2018	TBCRU Travel Award Reviewer
2018	TBCRU Traineeship Program Awards
2018	CIHR Postdoctoral Fellowships
2017	MITACS Accelerate Fellowship

Event Activities

2023	World Molecular Imaging Congress (WMIC) - Organization Committee
2023	4 th Annual Immuno-Oncology Symposium (London) - Organization Committee

2022 3rd Annual Immuno-Oncology Symposium (London) - Organization Committee

2021 World Molecular Imaging Congress (WMIC) - Organization Committee

2021 WMISCan Scientific Session at World Molecular Imaging Congress - Lead Organizer

2021 World Molecular Imaging Congress (WMIC) - Abstract Reviewer

2021 European Molecular Imaging Meeting (EMIM) - Abstract Reviewer

2020 WMISCan Scientific Session at World Molecular Imaging Congress - Lead Organizer

2020 World Molecular Imaging Congress (WMIC) - Abstract Reviewer

2019 WMISCan Inaugural Pre-Symposium, Montreal - Lead Organizer

2019 Great Lakes Advanced Molecular Imaging Course (GLAMIC) – Co-Lead Organizer

2019 European Molecular Imaging Meeting (EMIM) - Abstract Reviewer

2019 London Health Research Day - Abstract Reviewer

2018 Annual AC Burton Day for Medical Biophysics - Lead Organizer

2018 2nd Cellular and Molecular Imaging Symposium - London Museum – Co-Lead Organizer

2018 The Centre for Advanced Materials and Biomaterials Research (CAMBR) - Travel Awards Reviewer

2018 European Molecular Imaging Meeting (EMIM) - Abstract Reviewer

2018 World Molecular Imaging Congress (WMIC) - Session Moderator

2018 Oncology Research & Education Day - Abstract Reviewer

2018 London Health Research Day - Abstract Reviewer

2017 Robarts Research Retreat - Poster Judge

2017 Oncology Research & Education Day - Poster Judge

2017 Oncology Research & Education Day - Discussion Facilitator on Cancer Imaging

2016 Oncology Research & Education Day - Session Moderator

2016 World Molecular Imaging Congress (WMIC) - Abstract Reviewer

2016 Imaging Network of Ontario (ImNO) Symposia - Poster Judge

2016 London Health Research Day - Abstract and Poster Judge

2015 European Molecular Imaging Meeting (EMIM) - Abstract Reviewer

Thesis Examiner

MSc

2023

M.Sc. Olda Haydaychuck (Biochemistry)

2022	M.Sc. Farah Hasan (Biochemistry)
2019	M.Sc. Chris Leclerc (Biomedical Engineering)
2018	M.Sc. Nolan Broeke (Medical Biophysics)
2017	M.Sc. Kobra Pourbouyeh (Medical Biophysics)
2017	M.Sc. Sina Ghoreishi (Medical Biophysics)
2017	M.Sc. Ahmed Abbas (Medical Biophysics)
2016	M.Sc. Brooke Raycraft (Chemistry)
2016	M.Sc. Jenna Kara (Medical Biophysics)

PhD

2023	Ph.D. Qin Daisy Sun (Medical Biophysics)
2021	Ph.D. Jason Lee (Medical Biophysics)
2021	Ph.D. Hayley Good (Pathology and Laboratory Medicine)
2020	Ph.D. Charmaine Cruje (Medical Biophysics)
2020	Ph.D. Fiona Li (Medical Biophysics)
2019	Ph.D. Yonathan Araya (Medical Biophysics)
2019	Ph.D. Emily Murrell (Chemistry)
2019	Ph.D. Mohammed Albatany (Medical Biophysics)
2018	Ph.D. Corby Fink (Microbiology & Immunology)
2018	Ph.D. Ashley Makela (Medical Biophysics)
2017	Ph.D. Heeseung Lim (Medical Biophysics)
2016	Ph.D. Khadija Sheikh (Medical Biophysics)
2016	Ph.D. Donna Murrell (Medical Biophysics)
2015	Ph.D. Jonatan Snir (Medical Biophysics)

Comprehensive Examiner

2019	Andrew Deweyert (Anatomy and Cell Biology)
2017	Yohan Kim (Pathology & Laboratory Medicine)
2017	Stephen Sherman (Physiology & Pharmacology)

Comprehensive/Thesis Chair

2023	Kirhiran Kooner (Medical Biophysics, Ph.D.)
2020	Laurie Huang (Medical Biophysics, M.Sc.)
2015	Elina Ismailova (Medical Biophysics, M.Sc.)
2015	Kamini Marathe (Medical Biophysics, M.Sc.)

Other Activities

2016 and 2017	Medical Biophysics Low-Level Examinations Chair
2017	London Health Research Day – Postdoctoral Association at Western Workshop Panel
2016	Western PostDoc Research Day Lecturer and Panelist
2016	Medical Biophysics Faculty Representative at March Break Open House
2016	Dalhousie University Committee on Laboratory Animals (UCLA) animal ethics (Review of animal use proposal)
2015	Guest Panelist for Postdoctoral Mentoring Day
2015	Medical Biophysics Faculty Representative at Fall Preview Day