MILICA RADISIC
Curriculum Vitae

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1. GENERAL INFORMATION

1.1 CONTACT INFORMATION

Name: Milica Radisic

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1.2 EDUCATION

Post Doctorate Harvard-MIT Division of Health Science and Technology
Massachusetts Institute of Technology 2004-2005
Advisor: Gordana Vunjak-Novakovic

Ph.D. Chemical Engineering, Massachusetts Institute of Technology 1999-2004
Doctoral thesis: "Biomimetic Approach to Cardiac Tissue Engineering"
Advisor: Robert Langer

B.Eng. Chemical Engineering, McMaster University 1996-1999
Undergraduate thesis: "Interfacial tension in polymer melts"
Advisor: Andrew Hrymak

Chemical Engineering, University of Novi Sad, Serbia 1995-1996

1.3 WORK AND TRAINING EXPERIENCE

07/2017-06/2020 Associate Chair-Research, Department of Chemical Engineering and Applied Chemistry, University of Toronto

07/2017-current, Director Ontario-Quebec Center for Organ-on-a-Chip Engineering

07/2017-current, Visiting Professor, Faculty of Medicine, University of Novi Sad, Serbia

04/2016-03/2022 Director, NSERC CREATE Training Program in Organ-on-a-Chip Engineering and Entrepreneurship

09/2011- current, Canada Research Chair (Tier 2)

03/2016-current, Senior Scientist, Toronto General Research Institute

07/2014-current, Professor, University of Toronto
I teach courses in Chemical and Biomedical Engineering. I direct a research program focused on engineering microenvironments for cardiovascular regeneration. We work with cardiomyocytes derived from human pluripotent stem cells and design microfabricated systems for their maturation. We are also working in the area of organ-on-a-chip engineering designing vascularized and perfusable models of human heart, liver and tumor tissue for drug discovery and safety testing. An important aspect of our research is the development of new elastic and immunomodulatory materials for the development of injectable polymer scaffolds. These materials allow us to inject scaffolds and living tissues in the body in a minimally invasive manner. They also prevent infection in situ and modulate immune response towards healing.

07/2010-06/2014 Associate Professor, University of Toronto

07/2005-06/2010- Assistant Professor, University of Toronto

Institute of Biomaterials and Biomedical Engineering (IBBME)
Department of Chemical Engineering and Applied Chemistry

My research program consists of several different projects that all fall under the umbrella of cardiac tissue engineering and regenerative medicine. We are focused on pursuing molecular mechanisms governing the formation of contractile cardiac tissue in vitro as well as on practical strategies for treatment of myocardial infarction and heart failure through development of new biomaterials. Our work can be grouped into the following areas:

Tissue Engineering of Cardiac Patches: The key projects in this area are focused on: 1) designing advanced bioreactors for cardiac tissue engineering capable of integrating mechanical and electrical stimuli with perfusion, 2) developing strategies to engineer vascularized myocardium based on the tri-culture of key heart cell types and 3) using the engineered cardiac tissue based on cardiomyocytes derived from human embryonic stem cells and induced pluripotent stem cells as a model system for cardiac cell therapy or drug testing.

Injectable Biomaterials: Cell injection into the infracted myocardium can result in functional improvements, but the utility of this procedure in clinical settings is hampered by the massive death and washout of the injected cells (~90%). We are working on the development of injectable hydrogels that will promote survival and localization of cardiomyocytes injected into the infracted myocardium. The hydrogels are functionalized with specific peptides capable of promoting survival of cardiomyocytes.

Microfluidic Cell Separation: Cardiomyocytes do not have well established surface markers. The main goal of this project is to develop size and adhesion based microfluidic cell separation methods capable of fractionating cells from small samples such as human biopsies or differentiating human pluripotent stem cell cultures. The system would enable fractionation of endothelial cells, cardiomyocytes, fibroblasts and smooth muscle cells without the need for labeling.

Microfabricated Systems for Cell Culture: In vivo, multiple physical and biochemical stimuli act in concert to determine cell fate and phenotype. In order to engineer functional cardiac patches and develop advanced bioreactors we need to understand the interactive effects of multiple physical stimuli. We are currently developing microfabricated cell culture systems with built-in electrodes and precisely defined topography for simultaneous application of field stimulation and contact guidance cues. These microfabricated systems serve as platforms for maturation of human pluripotent stem cell derived cardiomyocytes.

07/2004-06/2005 Post-doctoral Associate, Harvard-MIT Division of Health Science and Technology
Supervisor: Dr. Gordana Vunjak-Novakovic
Microfluidic cell separation, surface patterning via photocrosslinkable chitosan, optical mapping of electrical signal propagation in engineered heart tissue, subcutaneous implantation of PGS based channeled cardiac constructs.

01/ 2000-07/2004 Research Assistant, Department of Chemical Engineering, **MIT**
Supervisor: Prof. Robert Langer
Developed methods for cell seeding of porous scaffolds at physiological cell densities. Designed cell culture hardware (perfused, recirculating loops) that allows for nutrient and oxygen supply to the growing tissue by convection-diffusion. Utilized synthetic oxygen carriers (Oxygent^{TM}) in perfused tissue cultures to simulate the role of haemoglobin *in vivo*. Developed methods and set-up for cultivation of engineered myocardium in the presence of *in vivo*-like electrical stimuli. Derived mathematical model for oxygen transport in engineered tissues. Developed methods for characterization of contractile response of engineered myocardium to electrical pacing. Analytical methods: FACS, histology, immunohistochemistry, Western blot, RT-PCR, computer-based image analysis.

09/1998-07/1999 Research Assistant, Department of Chemical Engineering, McMaster University
Supervisor: Prof. Andrew Hrymak
Implemented imbedded disc retraction method (IDR) for measurement of interfacial tension in high viscosity polymer melts. Extended Newtonian model for IDR to include elastic effects. Developed a method of estimating the significance of elastic effects in measurement of interfacial tension for a given polymer pair.

09/1997-07/1998 Research Assistant, Department of Chemical Engineering, McMaster University
Research Supervisor: Prof. Robert Pelton
Synthesized defoaming agents; investigated their efficiency and mechanism of defoaming.

07-08/1995 Research Assistant Department of Material Science, Weizmann Institute of Science
Research Supervisor: Dr. Gregory Kahluzny
Prepared organic thiol SAM's on gold surfaces. Investigated metal ion binding to the end amine groups and change in oxidation state for potential application in electronic devices.

1.4 AFFILIATIONS

01/2014- current: Cardiovascular Sciences Collaborative Program

01/2011-current: Member of the **Ontario Stem Cell Initiative (OSCI), Ontario Institute of Regenerative Medicine**

07/2007- 03/2016: **Affiliated Scientist**, Toronto General Hospital Research Institute (**TGHRI**)

09/2006 –current: Member Heart & Stroke/Richard Lewar Center of Excellence in Cardiovascular Research (**HSRLCE**), University of Toronto

07/2005-06/2009: **Principal Investigator**, Advanced Regenerative Tissue Engineering Centre (**ARTEC**)
University of Toronto, Sunnybrook & Women's Hospital Health Sciences Center, Toronto

07/2005-current: Associate Member, Pediatric Regenerative Medicine Program (**PRM**)
Hospital for Sick Children, Toronto

07/2005-current: Research Collaborator Tissue Engineering Resource Center **(TERC)**
Tufts University, MIT, NIH

1.5 PROFESSIONAL REGISTRATIONS

2011-current P.Eng. License, Professional Engineers Ontario

2007-2011 Engineering Intern Training (EIT), Professional Engineers Ontario

1.6 AWARDS, HONORS AND SCHOLARSHIPS

1. 10/1997 **ICI Canada Inc.** Scholarship for outstanding performance in Level Two Chemical Engineering, McMaster University

2. 11/1997 **The Mabel Stoakely Scholarship**; awarded for outstanding academic achievement and leadership,
   McMaster University

3. 02/1998 **CSChE Student Paper Award** (2nd Place) "The role of defoamers in brownstock washing"

4. 09/1998 **The Herbert A. Ricker Scholarship**; awarded for academic excellence, McMaster University

5. 11/1998 **The Chancellor's Gold Medal**; the highest University award for undergraduate students, awarded for academic excellence, leadership and influence, McMaster University

6. 04/1999 **The Presidential Graduate Fellowship;** awarded by the Department of Chemical Engineering, Massachusetts Institute of Technology for exceptional record and promising future

7. 06/1999 **The Canadian Society of Chemical Industries Merit Award;** awarded to Chemical Engineering graduate with the highest cumulative average

8. 06/2000-06/2004 **Studenica Foundation Graduate Fellowship**

9. 05/ 2002 **Poitras Pre-Doctoral Fellowship;** awarded for studies in biomedical engineering, MIT

10. 07/2003 **Cambridge Science Foundation Travel Grant**

11. 08/2007 **Early Researcher Award**; Ministry of Research and Innovation, Ontario

12. 08/2008 **MIT Technology Review Top 35 Innovators under 35 (TR35)**

13. 04/2009 **Breaking the Glass Ceiling Award;** Women in Science and Engineering Club, University of Toronto

14. 01/2010 **2010's People to Watch**; Toronto Star

15. 04/2010 **NSERC Discovery Accelerator Supplement**

16. 06/2010 **McMaster Arch Award** for work in Bioengineering**,** McMaster University Alumni Association,
    a. Recognizes McMaster's graduates within 10 years after convocation for their unique and interesting
    b. contributions to society, their local community, and to McMaster University.

17. 06/2010 **Scientist to Watch;** named by the Scientist Magazine

18. 01/2011 **Connaught Innovation Award**; University of Toronto

19. 07/2011 **Young Engineer Award;** Professional Engineers Ontario, Ontario Society of Professional Engineering

20. 11/2011 **Canada Research Chair Functional Cardiovascular Tissue Engineering (Tier 2)**

21. 06/2012 **Engineers Canada Young Engineer Award**

22. 07/2012 **McLean Award, University of Toronto**

23. 02/2013 **Queen Elizabeth II Diamond Jubilee Medal**

24. 05/2013 **University of Toronto Inventor of the Year Award** (with Axel Guenther, Liang Leng, Arianna McAllister, Andrew Woollard and Boyang Zhang)

25. 02/2014 **E.W.R. Steacie Memorial Fellowship**, National Science and Engineering Research Council of Canada

26. 09/2014 **Royal Society of Canada**, member of The College of New Scholars, Artists and Scientists

27. 03/2015 **Fellow of the American Institute for Medical and Biological Engineering (AIMBE)**

28. 10/2015 **Hatch Innovation Award,** Canadian Society of Chemical Engineers

29. 06/2016 **Fellow, Canadian Academy of Engineering**

30. 05/2017 **Dr. E. R. Smith Lectureship in Cardiovascular Research Award,** Libin Cardiovascular Institute, University of Calgary

31. 08/2017 **Top 150 alumni**, as an outstanding **McMaster Engineering** Graduate

32. 11/2017 **Fellow, Royal Society of Canada (RSC), Academy of Science, Applied Sciences and Engineering Division**

33. 02/2018 **Steacie Prize for Natural Sciences, Trustees of the E.W.R. Steacie Memorial Fund**

34. 03/2018 **YWCA Toronto Women of Distinction Award, Honouring Women in Canada**

35. 09/2018 **Fellow Tissue Engineering and Regenerative Medicine Society**

36. 11/2019 **Engineering Medal for Research and Development, Ontario Professional Engineers**

37. 12/2019 **Tissue Engineering & Regenerative Medicine Society-Americas, Innovation & Commercialization Award**

38. 05/2020 **Senior Member Massey Collage**

39. 06/2020 **Killam Fellowship**

40. 04/2021 **Safwat Zakay Research Leader Award**, Faculty of Applied Science and Engineering, University of Toronto

41. 01/2022 **Tier I Canada Research Chair in Organ-on-a-Chip Engineering**

42. 04/2022 **Acta Biomaterialia Silver Award**

43. 10/2022 **Fellow of the Biomedical Engineering Society**

44. 03/2023 **Alexander von Humboldt Fellowship**

2. PUBLICATIONS and TECH TRANSFER (h-index 68, 17380 citations by Google Scholar):

2.1 REFEREED JOURNAL PAPERS

Published: (after line at the University of Toronto**)**

1. Rodic M, (maiden name) and Hrymak AN: "The modified disc retraction method for measurement of interfacial tension in polymer melts", ***Rheologica Acta***, 40:339-349, 2003

2. Radisic M , Euloth M, Yang L, Langer R, Freed LE, Vunjak-Novakovic G: "High density seeding of myocyte cells for cardiac tissue engineering", ***Biotechnology & Bioengineering*** 82: 403-414, 2003

3. Radisic M , Yang L, Boublik J, Langer R, Freed LE, Vunjak-Novakovic G: "Medium perfusion enables cultivation of compact and contractile cardiac tissue", ***American Journal of Physiology-Heart and Circulatory Physiology*** 286: H507-516, 2004

4. Radisic M , Park H, Shin H, Consi T, Schoen FJ, Freed LE, Vunjak-Novakovic G: "Functional assembly of engineered myocardium by electrical stimulation of cardiac myocytes cultured on scaffolds", ***Proceedings of the National Academy of Sciences of the United States of America***, 101:18129-18134, Dec 28, 2004 (Cover article)

5. Radisic M , Deen WM, Langer R, Vunjak-Novakovic G: "Mathematical model of oxygen distribution in engineered cardiac tissue with parallel channel array perfused with culture medium containing oxygen carriers", ***American Journal of Physiology-Heart and Circulatory Physiology***, 288: H1278-H1289, 2005

6. Boublik J, Park H, Radisic M, Tognana E, Chen F, Pei M, Vunjak-Novakovic G, Freed LE: "Mechanical function and remodeling of hybrid cardiac constructs made from heart cells, fibrin, and a biodegradable, elastomeric knitted fabric", ***Tissue Engineering***, 11: 1122-1132, 2005

7. Park H, Radisic M, Lim JO, Chung BH, Vunjak-Novakovic G: "A novel composite scaffold for cardiac tissue engineering", ***In Vitro Cell and Developmental Biology-Animal***,41:188-196, 2005

8. Radisic M , Malda J, Epping E, Geng W, Langer R, Vunjak-Novakovic G: "Oxygen gradients correlate with cell density and cell viability in engineered cardiac tissue", ***Biotechnology & Bioengineering***, 93:332-343, 2006

9. Radisic M , Park H, Chen F, Wang Y, Dennis R, Langer R, Freed LE, Vunjak-Novakovic G: "Biomimetic approach to cardiac tissue engineering: Oxygen carriers in channeled scaffolds", ***Tissue Engineering***, 12: 2077-91, 2006 (Cover article)

10. Murthy SK, Sethu P, Vunjak-Novakovic G, Toner M, Radisic M (corresponding author): "Size-Based Microfluidic Enrichment of Neonatal Rat Cardiac Cell Populations", ***Biomedical Microdevices***, 8:231-237, 2007

11. Karp JM, Yeo Y, Geng W, Cannizarro C, Jan K, Kohane DS, Vunjak-Novakoviv G, Langer RS, Radisic M (corresponding author): "A Photolitographic Method to Create Cellular Micropatterns", ***Biomaterials*** 27:4755-64, 2006

12. Yeo Y, Geng, W, Ito T, Kohane DS, Burdick JA, Radisic M (corresponding author): "A photocrosslinkable hydrogel for myocyte cell culture and injection", ***Journal of Biomedical Materials Research Part B,*** 81:312-322, 2006

13. Plouffe BD, Njoka D, Harris J, Liao J, Horick NK, Radisic M, Murthy SK: "Peptide-Mediated Selective Adhesion of Smooth Muscle and Endothelial Cells in Microfluidic Shear Flow", ***Langmuir***, 23:5050-5055, 2007

14. Khademhosseini A, Eng G, Yeh J, Kucharczyk PA, Langer R, Vunjak-Novakovic G, Radisic M (corresponding author): "Microfluidic patterning for fabrication of contractile cardiac organoids", ***Biomedical Microdevices***, 9:149-157, 2007

15. Au HTH, Cheng I, Chowdhury MF, Radisic M "Interactive effects of surface topography and pulsatile

electrical field stimulation on fibroblasts and cardiomyocytes", ***Biomaterials***, 28: 4277-93, 2007

16. Radisic M, Park H, Salazar-Lazaro JE, Wang Y, Langer R, Freed LE, Vunjak-Novakovic G: "Pretreatment of synthetic elastomeric scaffolds by cardiac fibroblasts improves engineered heart tissue", ***Journal of Biomedical Materials Research Part A***, 86:713-724, 2008

17. Wallis MC, Yeger H, Cartwright L, Shou Z, Radisic M, Haig J, Suoub M, Farhat WA: "Feasibility study of a novel urinary bladder bioreactor" ***Tissue Engineering***,14:339-348, 2008

18. Radisic M, Marsano A, Maidhof R, Wang Y, Vunjak-Novakovic G. "Cardiac tissue engineering using perfusion bioreactor systems" , ***Nature Protocols***, 3:719-38, 2008

19. Plouffe BD, Radisic M, Murthy SK: "Microfluidic Depletion of Endothelial Cells, Smooth Muscle Cells, and Fibroblasts from Heterogeneous Suspensions", ***Lab-on-a-Chip***, 3:462-472, 2008

20. Shen Y-H, Shoichet M, Radisic M (corresponding author): "Vascular endothelial growth factor immobilized in collagen scaffold promotes proliferation and penetration of endothelial cells", ***Acta Biomaterialia***, 4:477-489, 2008

21. Iyer RK, Chiu L, Radisic M (corresponding author): "Microfabricated poly(ethylene glycol) templates enable rapid screening of tri-culture conditions for cardiac tissue engineering", ***Journal of Biomedical Materials Research Part A***, 89A:616-31, 2009

22. Radisic M (co-corresponding author), Fast VG, Sharifov OF, Iyer RK, Park H, Vunjak-Novakovic G: "Optical mapping of impulse propagation in engineered cardiac tissue", ***Tissue Engineering Part A***, 15:851-60, 2009

23. Brown MA, Iyer RK, Radisic M (corresponding author): "Pulsatile perfusion bioreactor for cardiac tissue engineering", ***Biotechnology Progress***, 24:907-920, 2008

24. Park H, Bhalla R, Saigal R, Radisic M, Watson N, Langer R, Vunjak-Novakovic G. "Effects of electrical stimulation in C2C12 muscle constructs", ***Journal of Tissue Engineering and Regenerative Medicine*** 2:279-287, 2008

25. Tandon N, Cannizzaro C, Chao PH, Maidhof R, Marsano A, Au HT, Radisic M, Vunjak-Novakovic G. "Electrical stimulation systems for cardiac tissue engineering", ***Nature Protocols***, 4:155-173, 2009

26. Heidi Au HT, Cui B, Chu ZE, Veres T, Radisic M. (co-corresponding author): "Cell culture chips for simultaneous application of topographical and electrical cues enhance phenotype of cardiomyocytes" , ***Lab-on-a-Chip***, 9:564-575, 2009

27. Iyer RK, Chui J, Radisic M. (corresponding author): "Spatiotemporal tracking of cells in tissue-engineered cardiac organoids.", ***Journal of Tissue Engineering and Regenerative Medicine***, 3:196-207, 2009

28. Plouffe BD, Brown MA, Iyer RK, Radisic M (co-corresponding author), Murthy SK: "Controlled Capture and Release of Cardiac Fibroblasts using Peptide-Functionalized Alginate Gels in Microfluidic Channels", ***Lab- on -a -Chip***, 9:1507-10, 2009

29. Green JV, Radisic M, Murthy SK: "Deterministic Lateral Displacement as a Means to Enrich Large Cells for Tissue Engineering", ***Analytical Chemistry***, 81:9178-9182, 2009

30. Chiu LLY, Radisic M (corresponding author): "Scaffolds with covalently immobilized VEGF and Angiopoietin-1 for vascularization of engineered tissues", ***Biomaterials,*** 31:226-241, 2010

31. Song H, Yoon C, Kattaman SJ, Dengler J, Thavaratnam T, Gewarges M, Masse S, Nanthakumar K, Rubart M, Keller GM, Radisic M (co-corresponding author), Zandstra P: "Interrogating functional integration between injected pluripotent stem cell derived-cells and surrogate cardiac tissue", ***Proceedings of the National Academy of Sciences of the United States of America***, 107:3329-3334, 2010

32. Chiang K, Chowdhury MF, Iyer RK, Stanford WL, Radisic M (co-corresponding author): "Engineering surfaces for site specific vascular differentiation of mouse embryonic stem cells", ***Acta Biomaterialia***, 6:1904-16, 2010

33. Rask F, Dallabrida SM, Ismail NS, Amoozgar Z, Yeo Y, Rupnick M, Radisic M. (corresponding author): "Photocrosslinkable chitosan modified with angiopoietin-1 peptide, QHREDGS, promotes survival of neonatal rat heart cells", ***Journal of Biomedical Materials Research Part A***, 95:105-117, 2010

34. Bhana B and Iyer RK, Chen WLK, Zhao R, Sider KL, Simmons CA, Radisic M (corresponding author): "Influence of Substrate Stiffness on the Phenotype of Heart Cells", ***Biotechnology & Bioengineering***, 105:1148-1160, 2010 (cover in June 2011)

35. Chiu LLY, Weisel RD, Li R-K, Radisic M (co-corresponding author): "Defining conditions for covalent immobilization of angiogenic growth factors onto scaffolds for tissue engineering", ***Journal of Tissue Engineering and Regenerative Medicine,*** 5:69-84, 2011

36. Rask F, Mihic A, Reis L, Dallabrida SM, Ismail NS, Sider K, Simmons CA, Rupnick MA, Weisel RD, Li R-K, Radisic M (corresponding author): "Hydrogels modified with QHREDGS peptide support heart cell survival in vitro and after sub-cutaneous implantation", ***Soft Matter***, 6:5089-5099, 2010

37. Dengler J, Song H, Massé S, Wood G, Nanthakumar K, Zandstra PW and Radisic M (corresponding author): "An in vitro model system for cardiac stem cell therapy", ***Biotechnology & Bioengineering*** , 108: 704-719, 2011

38. Miyagi Y and Chiu LLY, Cimini M, Weisel RD, Radisic M (co-corresponding author), Li R-K "Biodegradable collagen patch with covalently immobilized VEGF improves right ventricular repair", ***Biomaterials***, 32:1280-90, 2011

39. Song H, Zandstra P, Radisic M (corresponding author): "Engineered heart tissue model of diabetic myocardium.", ***Tissue Engineering***, (13-14):1869-78, 2011

40. Odedra D, Shoichet M, Radisic M (co-corresponding author): "Endothelial Cells Guided by Immobilized Gradients of Vascular Endothelial Growth Factor on Porous Collagen Scaffolds", ***Acta Biomaterialia***,7:3027-35, 2011

41. Chiu LLY, Iyer RK, Radisic M (corresponding author): "Biphasic electrical field stimulation aids in tissue engineering of multi-cell type cardiac organoids", ***Tissue Engineering Part A***, 17:1465-77, 2011

42. Chiu LLY, Radisic M (corresponding author): "Controlled release of thymosin β4 using collagen-chitosan composite hydrogels promotes epicardial cell migration and angiogenesis", ***Journal of Controlled Release***, 155:376-85, 2011

43. Reis LA, Chiu LL, Liang Y, Hyunh K, Momen A, Radisic M (corresponding author): "A peptide-modified chitosan-collagen hydrogel for cardiac cell culture and delivery", ***Acta Biomaterialia***, 8:1022-36, 2012

44. Boudou T, Legant WR, Mu A, Borochin MA, Thavandiran N, Radisic M, Zandstra PW, Epstein JA, Margulies KB, Chen CS: "A Microfabricated Platform to Measure and Manipulate the Mechanics of Engineered Cardiac Microtissues", ***Tissue Engineering Part A***. (9-10):910-9, 2012

45. Chiu LLY, Janic K, Radisic M (corresponding author): "Engineering of oriented myocardium on three-dimensional micropatterned collagen-chitosan hydrogel", ***International Journal of Artificial Organs***, 35:237-250, 2012

46. Iyer RK, Odedra D, Vunjak-Novakovic G, Radisic M (corresponding author): "VEGF Secretion by Non-Myocytes Modulates Connexin-43 Levels in Cardiac Organoids", ***Tissue Engineering Part A,*** 18:1771-83, 2012

47. Zhang B, Green JV, Murthy SK, Radisic M (corresponding author): "Label-free enrichment of functional cardiomyocytes using microfluidic deterministic lateral flow displacement", ***PLoS One*** 2012;7(5):e37619. Epub 2012 May 29.

48. Leng L, McAllister A, Zhang B, Radisic M, Günther A: "Mosaic hydrogels: One-step formation of multidimensional, multiscale soft materials", ***Advanced Materials***, 24:3650-8, 2012 (cover article)

49. Al-Haque S, Miklas J, Feric N, Chiu LLY, Chen WLK, Simmons CA, Radisic M (corresponding author): "Substrate stiffness and topography simultaneously influence cardiac fibroblast contact guidance on hydrogels ", ***Macromolecular Bioscience***, 12:1342-53, 2012 (cover article)

50. Iyer TK, Chiu LLY, Vunjak-Novakovic G, Radisic M (corresponding author): "Sequential Preculture of Non-Myocytes Improves Formation of Vascular-Like Cords in Engineered Cardiac Tissues", ***Biofabrication*** 4:035002, 2012

51. Chiu LLY, Reis LA, Momen A, Radisic M (corresponding author): "Controlled release of thymosin β4 from injected collagen-chitosan hydrogels promotes angiogenesis after myocardial infarction in rats", ***Regenerative Medicine***, 7:523-33, 2012

52. Kang K, Sun L, Xiao Y, Li S-H, Wu Y, Yau TM, Weisel RD, Radisic M, Li R-K : "Aged Human Cells Rejuvenated by Cytokine-Enhancement of Biomaterials for Surgical Ventricular Restoration", ***Journal of the American College of Cardiology***, 20:2237-49, 2012

53. Chiu LLY, Montgomery M, Liang Y, Liu H, Radisic M (corresponding author): "Perfusable branching microvessel bed for vascularization of engineered tissues", ***Proceedings of the National Academy of Sciences of the United States of America***, 109:E3414-23, 2012

54. Martin C, Sofla AYN, Zhang B, Nunes SS, Radisic M (corresponding author):"Fusible core molding for fabrication of branched three-dimensional perfusable microvessels for vascular tissue engineering", ***International Journal of Artificial Organs,*** 36:159-65, 2013

55. Sofla A, Cirkovic B, Hsieh A, Miklas JW, Filipovic N, Radisic M (corresponding author): "Enrichment of live unlabelled cardiomyocytes from heterogeneous cell populations using manipulation of cell settling velocity by magnetic field", ***Biomicrofluidics*** 7, 014110, 2013; http://dx.doi.org/10.1063/1.4791649

56. Nunes SS, Miklas JW, Xiao Y, Zhang B, Hsieh A, Thavandiran N, Jiang J, Masse S, Ggaliardi M, Laflamme MA, Nanthakumar K, Gross G, Keller G, Radisic M (corresponding author): "Biowire: a platform for maturation of human pluripotent stem cell derived cardiomyocytes", ***Nature Methods*** 10:781-787, 2013 *(On July 03rd, 2013 the article ranked in the 98 percentile of a sample of 10,000 of the 31,524 tracked articles of a similar age in all journals and in the 95 percentile (ranked 3rd) of the 46 tracked articles of a similar age in Nature Methods)*

57. Redpath CJ, Bou Khalil M, Drozdzal G, Radisic M, McBride HM: "Mitochondrial hyperfusion during oxidative stress is coupled to a dysregulation in calcium handling within a C2C12 cell model", ***PLoS One*** 8;8(7):e69165, 2013 doi: 10.1371/journal.pone.0069165

58. Zhang B, Peticone C, Murthy S, Radisic M (corresponding author): "A standalone perfusion platform for drug testing in microvessel networks ", ***Biomicrofluidics*** 7, 044125 , 2013; http://dx.doi.org/10.1063/1.4818837

59. Miklas JW, Dallabrida SM, Reis LA, Ismail N, Rupnick M, Radisic M (corresponding author): "QHREDGS enhances tube formation, cell metabolism and cell survival of human umbilical cord endothelial cells in collagen-chitosan hydrogels" ***PLoS One***, 8(8):e72956, 2013 doi:10.1371/journal.pone.0072956

60. Xiao Yun, Zhang B, Liu H, Miklas JW, Gagliardi M, Pahnke A, Thavandiran N, Sun Y, Simmons CA, Keller G, Radisic M (corresponding author): "Microfabricated perfusable cardiac biowire: a platform that mimics native cardiac bundle", ***Lab-on-a-Chip*** 14:869-82, 2014 (cover article)

61. Thavandiran N, Dubois D, Mikryukov A, Massé S, Beca B, Simmons CA, Deshpande V, McGarry P, Chen CS, Nanthakumar K, Keller G, Radisic M (co-corresponding author), Zandstra PW: "Design criteria-guided formulation of pluripotent stem cell-derived cardiac microtissues", ***Proceedings of the National Academy of Sciences of the United States of America*** 110(49):E4698-707. doi: 10.1073/pnas.1311120110 , 2013

62. Liu H, Wen J, Xiao Y, Liu J, Hopyan S, Radisic M, Simmons CA, Sun Y : "In situ mechanical characterization of the cell nucleus by atomic force microscopy", ***ACS Nano***, 8:3821-8, 2014

63. Miklas JW, Nunes SS, Pahnke A, Sofla A, Radisic M: "Bioreactor for modulation of cardiac microtissue phenotype by combined mechanical and electrical stimulation" ***Biofabrication***, 6(2):024113. doi: 10.1088/1758-5082/6/2/024113, 2014

64. Traister A, Li M, Aafaqi S, Lu M, Arab S, Radisic M, Guido F, Sherret J, Verma S, Slorach C, Mertens L, Hui W, Hannigan G, Maynes JT, Coles JG: "Rescue of disrupted mechanotransduction as a new therapeutic strategy in human dilated cardiomyopathy" ***Nature Communications***, Sep 11;5:4533. doi: 10.1038/ncomms5533, 2014

65. Dang LT, Feric N, Laschinger C, Chang WY, Zhang B, Wood G, Stanford WL, Radisic M (corresponding author):" A biomaterials-based approach to inhibit apoptosis of human induced pluripotent stem cells during expansion in a defined culture using angiopoietin-1 derived peptide QHREDGS", ***Biomaterials***, 35:7786-99, 2014

66. Feric N, Cheng C, Coh C, Yang L, Di Tizio V, Radisic M (corresponding author): "QHREDGS promotes osteoblast differentiation, bone matrix deposition and mineralization", ***RSC Biomaterials Science,*** 2, 1384-1398, 2014

67. Reis LA, Chiu LLY, Wu J, Feric N, Lachinger C, Momen A, Li R-K, Radisic M (corresponding author): "Hydrogels with integrin binding angiopoietin 1 derived peptide QHREDGS for treatment of acute myocardial infarction", ***Circulation- Heart Failure***, 8:333-41, 2015

68. Hsieh A, Feric NT and Radisic M (corresponding author): "Combined hypoxia and sodium nitrite pretreatment for cardiomyocyte protection in vitro", ***Biotechnology Progress***, Apr, 482-492, 2015

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31. Yun Xiao, Lewis Reis, Serena Mandla, Milica Radisic “HYDROGEL COMPOSITION AND ASSOCIATED METHOD OF USE”, filed on April 12th, 2018 Application number 15952004

32. Miklas J, Radisic M, Thavandiran N, Vasconcelos S, Xiao Y, Zhang B, Zhao Y: “COMPOSITIONS AND METHODS FOR MAKING AND USING THREE-DIMENSIONAL TISSUE SYSTEMS” US Patent Number 10,254,274 issued April 9, 2019

33. Locke Davenport-Huyer, Miles Montgomery, Milica Radisic: “Smart polyester biomaterial design incorporating biomimetic antibacterial and immunomodulatory cell functionality” US Provisional Patent Application 62/872,878 number 10003769, filed on 11/07/2019

34. Yimu Zhao, Milica Radisic, Peter Backx, Naimeh Rafatian “METHODS FOR TISSUE GENERATION” US Provisional Patent 62/772,515 filed on November 28, 2018

35. Nimalan Thavandiran, Milica Radisic, Peter Zandstra: “Cardiac tissue constructs and methods of fabrication thereof” United States Patent 10,034,738 issued July 31, 2018

36. Jason Miklas, Milica Radisic, Nimalan Thavandiran, Sara Vasconcelos, Yun Xiao, Boyang Zhang, Yimu Zhao: “Compositions and methods for making and using three-dimensional tissue systems”, 16/259399 published 2019/11/7 (Licensed to TARA Biosystems)

37. Milica Radisic, Yun Xiao, Lewis Reis, Serena Mandla: “Hydrogel composition and associated method of use”, US Patent Application 16/510381 published 2019/10/31 (Assigned to Quthero Inc)

38. Ulrich Broeckel, Praful Aggrawal, Milica Radisic, Yimu Zhao: “ Methods and Systems for In Vitro Cardiac Disease Modeling” US Provisional Patent Application number 62/885,948 filed on August 13th, 2019

39. Serena Mandla, Milica Radisic: “Macrophage polarization with Angiopoietin-1 peptide QHREDGS”, US Provisional Patent 62/930,122 filed November 04th, 2019 (assigned to Quthero Inc)

40. Yimu Zhao, Milica Radisic, Peter Backx and Naimeh Rafatian “METHODS FOR TISSUE GENERATION” World Wide Patent WO 2020/113025 Filed on 2020-06-04 (optioned to TARA Biosystems)

41. Yimu Zhao, Milica Radisic and Boyang Zhang A: " MICROPHYSIOLOGICAL PLATFORM WITH EMBEDDED ELECTRODES FOR 3D TISSUE CULTURE" PCT/US2020/017195 filed on 2020-02-07) (optioned to TARA Biosystems)

42. LOCKE DAVENPORT HUYER, MILES MONTGOMERY, MILICA RADISIC: "POLYESTER BIOMATERIALS HAVING ANTIBACTERIAL AND IMMUNOREGULATORY ACTIVITIES" US Patent Application, July 13, 2020

43. Boyang Zhang, Anastasia Korolj, Carol Laschinger, Milica Radisic: "APPARATUS AND METHOD FOR HIGH-FIDELITY PODOCYTE CULTIVATION" US Patent Application 15/724,731 filed on 03-OCT-2017; Office action response filed on March 31st, 2020; Patent 15/724,731 granted on December 29th, 2020

44. Serena Mandla and Milica Radisic: "Compositions and methods for use for improvement of the condition and appearance of skin" Chinese Patent Application No. 202011375990.9, Filed November 30th 2020 (Quthero Inc)

45. Holly Sparks, Jeff Biernaskie, Holly Sparks, Michael Scott and Milica Radisic "Compositions and methods for use for improvement of the condition and appearance of skin", US Provisional Application 63/119,059 filed on November 30th, 2020 (Optioned to Quthero Inc)

46. Qinghua Wu, Yimu Zhao, Milica Radisic: "3D PRINTING OF THERMOPLASTIC POLYMER/QUANTUM DOT NANOCOMPOSITE FOR HEART-ON-A-CHIP", US Provisional Application 63/110591, filed on 06 November 2020

47. Milica Radisic, Yun Xiao, Leiws Reis, Serena Mandla: "Hydrogel composition and the associated method of use", Continuation in part filed on February 25th, 2021 (Assigned to Quthero Inc)

48. Milica Radisic, Yun Xiao, Lewis Reis, Serena Mandla: "Hydrogel composition and associated method of use" US Patent App. 17/184,745, 20/01/2022

49. M Radisic, Y Zhao, P Backx, N Rafatian Methods for tissue generation, US Patent App. 17/286,865, 09/12/2021

50. Q-peptide hydrogel promotes immune modulation and macrophage differentiation
S Mandla, M Radisic, US Patent App. 17/086,786 06/05/2021

51. Milica Radisic, Yun Xiao, Leiws Reis, Serena Mandla: "Hydrogel composition and the associated method of use", Continuation in part filed on February 25th, 2021 (Assigned to Quthero Inc)

52. Qinghua Wu, Yimu Zhao, Milica Radisic "THERMOPLASTIC POLYMER COMPOSITION FOR MICRO 3D PRINTING AND USES THEREOF", US utility patent filed on 05-NOV-2021, 17/520,303

53. Milica Radisic, Boyang Zhang, Yimu Zhao, Keith Yeager "A microphysiological platform with embedded electrodes for 3d tissue culture", US Patent Application 17798047, Publication date 2023/3/9

54. Serena Mandla, Jeff Alan Biernaskie, Holly Danielle Sparks, William Michael Scott, Milica Radisic: "Compositions and methods of use for treatment or improvement of the condition and appearance of skin" US Patent Application 17539132, Publication date 2022/6/2

55. Qinghua Wu, Yimu Zhao, Milica Radisic "Thermoplastic polymer composition for micro 3d printing and uses thereof" US Patent Application number 17520303, Publication date 2022/5/12

56. Milica Radisic, Boyang Zhang, Yimu Zhao, Keith Yeager "A microphysiological platform with embedded electrodes for 3d tissue culture", US Patent Application 17798047, Publication date 2023/3/9

57. Serena Mandla, Jeff Alan Biernaskie, Holly Danielle Sparks, William Michael Scott, Milica Radisic: "Compositions and methods of use for treatment or improvement of the condition and appearance of skin" US Patent Application 17539132, Publication date 2022/6/2

58. Qinghua Wu, Yimu Zhao, Milica Radisic "Thermoplastic polymer composition for micro 3d printing and uses thereof" US Patent Application number 17520303, Publication date 2022/5/12

2.7 START-UPS

Co-founder of **TARA Biosystems,** New York, NY. August 2014. VC funded start-up focused on heart-on-a-chip for drug testing. www.tarabiosystems.com Acquired by Valo Health in April 2022

Founder of **Quthero Inc**, Miami, FL, May 2017. Bioengineered peptide materials for scar reduction and skin regeneration.

www.quthero.com & www.qutheroskincare.com

3. PROFESSIONAL ACTIVITIES

3.1 CONFERENCE PRESENTATIONS-ABSTRACTS (name of presenter underlined)

1. **Radisic M**: " Biomimetic approach to the tissue engineering of functional myocardium", "Tissue Engineering" conference, Cold Spring Harbor Laboratories, New York, Nov 21-24, 2002 (oral)

2. Vunjak-Novakovic G, **Radisic M**, Park H, Boublik J, Freed LE: "Biomimetic Approach to the Tissue Engineering of Functional Myocardium", 2003 NASA Cell Science Conference, Houston, TX, February 21, 2003 (oral)

3. **Radisic M**, Park H, Schoen F, Shing S, Consi T, Jan Boublik J, Langer R, Freed LE, Vunjak-Novakovic G:

4. "Electrical stimulation enhances functional assembly of engineered myocardium", 2003 Annual Meeting of the Korean Society for Biotechnology and Bioengineering, Oct. 24, 2003 (oral)

5. **Radisic M**, Park H, Langer R, Freed LE, Vunjak-Novakovic G: "Tissue Engineering of a Compact and Contractile Myocardial Patch", 2003 Annual Meeting of the AIChE, San Francisco, CA, November 2003 (oral)

6. **Radisic M**, Park H, Langer R, Freed LE, Vunjak-Novakovic G: "Biomimetic Approach to Cardiac Tissue Engineering " Sixth Annual International Conference and Exposition for the Tissue Engineering Society International, Orlando, FL, Dec 11-13 2003 (oral)

7. **Radisic M,** Park H, Shing H, Boublik J, Consi T, Schoen F, Freed LE, Vunjak-Novakovic G: "Electrical

8. stimulation enhances functional assembly of engineered myocardium" NASA Cell Science Conference, Palo Alto CA, February 26-28, 2004.

9. Park H, **Radisic M**, Meinel L, Freed LE, Vunjak-Novakovic G: "Tissue engineering of myocardium: extension to adult human mesenchymal stem cells cultured on collagen scaffolds. 2004 meeting of the

American Chemical Society, Special Symposium: Stem Cell and Gene Therapeutics: From Benchtop to Bioprocess, Anaheim, CA, March 28 - April 1, 2004 (oral)

10. **M Radisic M**, Park H, Shing H, Consi T, Schoen F, Langer R, Freed LE, Vunjak-Novakovic G: " Interstitial flow and electrical stimulation *in vitro* enable the assembly of compact and functional myocardium" Eighth Annual Hilton Head Workshop on Cardiovascular Tissue Engineering, Hilton head NC, March 6 - 10, 2004 (oral)

11. Vunjak-Novakovic G, **Radisic M,** Obradovic B: Cardiac tissue engineering. Expert's conference and COST Steering Committee Meeting "Applications of Immobilization/Bioencapsulation in Medicine, Pharmacy, Food Technology and Biotechnology", June 26, 2004. Belgrade, Serbia (oral)

12. **Radisic M**, Park H, Wang Y, Langer R, Freed LE, Vunjak-Novakovic G: "Cardiac tissue engineering using perfused channeled scaffolds and oxygen carriers" TESI/ETES Annual Meeting, Oct 10-13 2004, Laussane Switzerland (oral)

13. **Radisic M**, Park H, Deen WM, Langer R, Freed LE, Vunjak-Novakovic G: "Perfusion bioreactors for cardiac tissue engineering" BMES Annual Fall Meeting, Oct 13-16, 2004 Philadelphia, PA (oral)

14. **Radisic M**, Park H, Langer R, Freed LE, Vunjak-Novakovic G: "Co-culture of cardiac fibroblasts and myocytes enhances functional assembly of engineered myocardium" AIChE Annual Meeting, Nov 7-12, Austin, TX, 2004 (oral)

15. **Radisic M**, Deen WM, Langer R, Vunjak-Novakovic G: "Oxygen distribution in channelled cardiac constructs perfused with oxygen carrier supplemented culture medium" AIChE Annual Meeting, Nov 7-12, Austin, TX, 2004 (oral)

16. **Radisic, M.** Park, H. Wang Y, Dennis R, Langer, Freed LE, Vunjak-Novakovic G. " Tissue Engineering of myocardium based on channelled elastomeric scaffold and oxygen carriers" MRS Fall Meeting Nov 29 – Dec 03, 2004, Boston, MA (oral)

17. Park H, **Radisic M**, Langer R, Freed LE, Vunjak-Novakovic G: "Electrical stimulation of cells cultured on 3-dimensional scaffolds markedly increased the expression of cardiac properties" 7th International Congress of the Cell Transplant Society, Nov 17-20, 2004 Boston, MA (poster)

18. **Radisic M**, Park H, Langer R, Freed LE, Vunjak-Novakovic G: " Co-culture of cardiac fibroblasts and myocytes enhances functional assembly of engineered myocardium" 7th International Congress of the Cell Transplant Society, Nov 17-20, 2004 Boston, MA (oral)

19. Vunjak-Novakovic G, **Radisic M**, Park H: " Biomimetic Approach to Cardiac Tissue Engineering" 2005BMES Annual Meeting, Sept 28-Oct 01 Baltimore, MD (oral)

20. Vunjak-Novakovic G, **Radisic M**, Park H, Wang Y, Dennis RG, Freed LE, Langer RS, Deen W

21. "Convective-Diffusive Oxygen Transport In Engineered Cardiac Tissue" 2005 BMES Annual Meeting, Sept 28-Oct 01 Baltimore, MD (oral)

22. **Radisic M,** Park H, Langer R, Freed LE, Vunjak-Novakovic G: "Bioreactors with electrical stimulation for functional tissue engineering of myocardium", 2005 BMES Annual Meeting, Sept 28-Oct 01 Baltimore MD (oral)

23. **Radisic M,** Park H, Langer R, Vunjak-Novakovic G: "Collagen and channeled poly (glycerol sebacate) scaffold for cardiac tissue engineering" 55th Canadian Chemical Engineering Conference, Oct16-19 2005, Toronto, ON (oral)

24. **Radisic M,** Malda J, Epping E, Geng W, Langer R, Vunjak-Novakovic G: "Oxygen gradients correlate with decrease in cell density and viability in engineered cardiac tissue" 2005 AIChE Annual Meeting, Oct 30-Nov 04 Cincinnati, OH (oral)

25. Yeo Y, Geng W, **Radisic M**: "A simple method for fabrication of micropatterned cell arrays using photocrosslinkable chitosan." Nov 28-Dec 02, Boston, MA (poster)

26. Yeo Y, Geng W, Burdick J, **Radisic M:** "Injectable hydrogel blend for regeneration of infarcted myocardium" 2005 MRS Fall Meeting, Nov 28-Dec 02, Boston, MA (poster)

27. Park H, Saigal R, Bhalla R, **Radisic M**, Watson N, Langer R, Vunjak-Novakovic G: "Electrical field stimulation enhanced excitation-contraction coupling in engineered muscle constructs: effects of voltage and frequency" 2005 MRS Fall Meeting, Nov 28-Dec 02, Boston, MA (poster)

28. Park H, **Radisic M,** Langer R, Freed L, Vunjak-Novakovic G: "Electrical stimulation enhances functional properties in 3-D cultured cells**"** New England BioScience Society, 2005, Boston, MA. (oral)

29. **Radisic M**, Park H, Deen W, Langer R, Freed L, Vunjak-Novakovic G: "Biomimetic approach to cardiac tissue engineering: Oxygen carriers and channeled scaffolds**"** 10th International symposium on blood substitutes, 2005, Brown University, RI. (oral)

30. Park H, **Radisic M**, Peterson L, Langer R, Freed L, Vunjak-Novakovic G: "Cardiac differentiation of human bone marrow derived mesenchymal stem cells (HMSC) by cultivation on a three-dimensional scaffold with electrical stimulation" International Society for Stem Cell Research, 2005, San Francisco, CA. (poster)

31. Park H, **Radisic M**, Peterson L, Hong M, Langer R, Vunjak-Novakovic, G: "Cardiac differentiation of human adult stem cells on 3D scaffolds for regenerative medicine" Challenges in Medicine, 2005, Toronto, Canada. (poster)

32. Vunjak-Novakovic G, **Radisic M,** Park H: "Biomimetic Approach to Cardiac Tissue Engineering" 2005 BMES Annual Meeting, Sept 28-Oct 01 Baltimore, MD (oral)

33. Vunjak-Novakovic G, **Radisic M**, Park H, Wang Y, Dennis RG, Freed LE, Langer RS, Deen W "Convective-Diffusive Oxygen Transport In Engineered Cardiac Tissue" 2005 BMES Annual Meeting, Sept 28-Oct 01 Baltimore, MD (oral)

34. **Radisic M**, Park H, Langer R, Freed LE, Vunjak-Novakovic G: "Bioreactors with electrical stimulation for functional tissue engineering of myocardium", 2005 BMES Annual Meeting, Sept 28-Oct 01 Baltimore, MD (oral)

35. **Radisic M,** Park H, Langer R, Vunjak-Novakovic G: "Collagen and channelled poly (glycerol sebacate) scaffold for cardiac tissue engineering" 55th Canadian Chemical Engineering Conference, Oct 16-19, 2005, Toronto, ON (oral)

36. **Radisic M,** Malda J, Epping E, Geng W, Langer RS, Vunjak-Novakovic G: "Oxygen gradients correlate with decrease in cell density and viability in engineered cardiac tissue" 2005 AIChE Annual Meeting, Oct 30-Nov 04 Cincinnati, OH (oral)

37. Yeo Y, Geng W, **Radisic M**: "A simple method for fabrication of micropatterned cell arrays using photocrosslinkable chitosan." 2005 MRS Fall Meeting, Nov 28-Dec 02, Boston, MA (poster)

38. Yeo Y, Geng W, Burdick J, **Radisic M:** "Injectable hydrogel blend for regeneration of infarcted myocardium" 2005 MRS Fall Meeting, Nov 28-Dec 02, Boston, MA (poster)

39. Park H, Saigal R, Bhalla R, **Radisic M**, Watson N, Langer R, Vunjak-Novakovic G: "Electrical field stimulation enhanced excitation-contraction coupling in engineered muscle constructs: effects of voltage and frequency" 2005 MRS Fall Meeting, Nov 28-Dec 02, Boston, MA (poster)

40. **Radisic M,** Park H, Freed LE, Langer R, Vunjak-Novakovic G: "Pre-treatment of scaffolds with cardiac fibroblasts improves assembly of cardiomyocytes into functional tissue" 2006 World Congress on Tissue Engineering and Regenerative Medicine, Apr 24-27, Pittsburgh, PA (oral)

41. Iyer RK and **Radisic M**: "Microfabricated Poly(Ethylene Glycol) Templates for Cell Tri Culture in Cardiac Tissue Engineering" 28th Annual International Society for Heart Research- American Section Meeting, June 14-16, 2006 Toronto, ON (poster)

42. Brown M, Iyer RK, **Radisic M**: "Pulsatile Perfusion Bioreactors Improve Differentiation of Engineered Cardiac Tissue" 2006 BMES, Annual Meeting, Oct 11-14, Chicago, IL (oral)

43. Iyer RK, Chiu L, **Radisic M**: "Engineering Cardiac Organoids Via Microfabricated Poly(Ethylene Glycol Templates" 2006 BMES, Annual Meeting, Oct 11-14, Chicago, IL (poster)

44. Iyer RK, Chiu L, **Radisic M**: " Novel microfabricated PEG templates for rapid screening of engineered organoids" IBBME Scientific Day, University of Toronto, June 07, 2006 (oral)

45. Murthy SK, Plouffe BD, **Radisic M**: "Surface Engineering in Microfluidic Devices for the Isolation of Smooth Muscle Cells and Endothelial Cells" 2007 Society for Biomaterials Annual Meeting, Chicago, IL. April 20, 2007 (oral)

46. Murthy SK, Plouffe BD, **Radisic M**: "Surface Engineering in Microfluidic Devices for the Isolation of Smooth Muscle Cells and Endothelial Cells" Materials Research Society Spring 2007 National Meeting, April 10, 2007 (oral)

47. **Radisic M**, Brown MA, Plouffe BD, Murthy SK: "Size and Adhesion Based Microfluidic Enrichment of Cardiac Cell Populations" 2007 90th Canadian Chemistry Conference, Winnipeg, MB (oral), May 28, 2007

48. Iyer RK, Chiu L, **Radisic M: "**Engineering Cardiac Organoids Via Microfabricated Poly(Ethylene Glycol) Templates" Heart & Stroke/Richard Lewar Centre of Excellence in Cardiovascular Research, University of Toronto, May 10, 2007

49. Dengler J, Niebrugge S, Zandstra P, **Radisic M**: "An *in vitro* Model System for Cardiac Cell Therapy" IBBME Scientific Day, University of Toronto, June 08, 2007 (poster)

50. Brown MA, Iyer RK, **Radisic M**: "Pulsatile Perfusion Bioreactors Improve Functionality of Engineered Cardiac Tissue" IBBME Scientific Day, University of Toronto, June 08, 2007 (poster)

51. Au HTH, Cheng I, Chowdhury MF, **Radisic M**: "Interactive effects of contact guidance and pulsatile electrical field stimulation on fibroblasts and cardiomyocytes" IBBME Scientific Day, University of Toronto, June 08, 2007 (oral)

52. Iyer RK, Chiu L, **Radisic M: "**Engineering Cardiac Organoids Via Microfabricated Poly(Ethylene Glycol) Templates" IBBME Scientific Day, University of Toronto, June 08, 2007 (poster)

53. Au HTH, Cheng I, Chowdhury MF, **Radisic M**: "Interactive effects of contact guidance and pulsatile electrical field stimulation on fibroblasts and cardiomyocytes" 26th Annual Canadian Biomaterials Society Meeting, May 25-26, 2007, London, ON (poster)

54. Iyer RK, Chiu L, **Radisic M: "**Engineering Cardiac Organoids Via Microfabricated Poly(Ethylene Glycol) Templates" 26th Annual Canadian Biomaterials Society Meeting, May 25-26, 2007, London, ON (poster)

55. Dengler J, Niebrugge S, Zandstra P, **Radisic M**: "An *in vitro* Model System for Cardiac Cell Therapy" TERMIS NA 2007 Conference and Exhibition on Tissue Engineering and Regenerative Medicine June 13-16, 2007 (poster)

56. Brown MA, Iyer RK, **Radisic M**: "Pulsatile Perfusion Bioreactors Improve Functionality of Engineered Cardiac Tissue" TERMIS NA 2007 Conference and Exhibition on Tissue Engineering and Regenerative Medicine June 13-16, 2007 (poster)

57. Brown MA, Murthy SK, **Radisic M**: "Peptide-mediated differential adhesion of neonatal rat heart cells in microfluidic shear flow" TERMIS NA 2007 Conference and Exhibition on Tissue Engineering and Regenerative Medicine June 13-16, 2007 (poster)

58. Au HTH, Cheng I, Chowdhury MF, **Radisic M**: "Interactive effects of contact guidance and pulsatile electrical field stimulation on fibroblasts and cardiomyocytes" TERMIS NA 2007 Conference and on Tissue Engineering and Regenerative Medicine June 13-16, 2007 (poster)

59. Iyer RK, Chiu L, **Radisic M:** "Engineering Cardiac Organoids Via Microfabricated Poly(Ethylene Glycol) Templates" TERMIS NA 2007 Conference and Exhibition on Tissue Engineering and Regenerative Medicine June 13-16, 2007 (oral)

60. Shen Y-H, Shoichet MS, **Radisic M**: "Immobilized Vascular Endothelial Growth Factor in Collagen Scaffold to Promote Endothelial Cell Infiltration for Cardiac" TERMIS NA 2007 Conference and Exhibition on Tissue Engineering and Regenerative Medicine June 13-16, 2007 (poster)

61. Shen Y-H, Shoichet MS, **Radisic M**: "Immobilized Vascular Endothelial Growth Factor in Collagen Scaffold to Promote Endothelial Cell Infiltration for Cardiac" Ontario/Quebec CSChE Biotechnology Meeting, June 7-8, 2007 (oral)

62. Plouffe BD, Radisic M, Murthy SK: "Peptide-Mediated Selective Adhesion of Smooth Muscle and Endothelial Cells in Microfluidic Shear Flow." 2nd Annual Methods in Bioengineering Conference, Cambridge, MA. July 12-13, 2007 (poster)

63. Murthy SK, **Radisic M**, Plouffe B: "Microfluidic Separation Of Cardiac Cell Subpopulations" 2007 AIChE Annual Meeting Day Nov 04-09 2007, Salt Lake City, UT (oral)

64. Dengler J, Zandstra P, **Radisic M**: "An *in vitro* Model System for Cardiac Cell Therapy" 2007 AIChE Annual Meeting Day Nov 04-09 2007, Salt Lake City, UT (oral)

65. Au HTH, Cheng I, Chowdhury MF, **Radisic M**: "Interactive effects of contact guidance and pulsatile electrical field stimulation on fibroblasts and cardiomyocytes" 2007 AIChE Annual Meeting Day Nov 04-09 2007, Salt Lake City, UT (oral)

66. **Radisic M:** "Ex-vivo construction of myocardial tissue: Bioreactor Cultivation" The 4th International Conference on Cell Therapy for Cardiovascular Diseases Jan 16-18, 2008, New York, NY (oral)

67. Plouffe BD, **Radisic M**, Murthy SK. "Peptide-Mediated Selective Adhesion of Smooth Muscle and Endothelial Cells in Microfluidic Shear Flow." 7th Annual New England Science Symposium, Harvard Medical School, Boston, MA. April 6, 2008 (poster)

68. **Radisic M**, Plouffe B, Brown MA, Murthy SK "Peptide mediated enrichment of heart cells in microfluidic shear flow" The 2008 World Biomaterials Congress, Amsterdam, Netherlands, May 2008 (oral-I had to decline due to pregnancy)

69. Dengler J, Zandstra P, **Radisic M**: "An in vitro model system for cardiac stem cell therapy" 2008 ISSCR Annual Meeting, June 11-14, Philadelphia, PA (poster)

70. Chowdhury MF, Stanford WL, **Radisic M**: "Site-specific patterned differentiation of murine embryonic stem cells to vascular cells" 2008 ISSCR Annual Meeting, June 11-14, Philadelphia, PA (oral)

71. Song H, Dengler J, **Radisic M,** Zandstra P: "Defining conditions for the efficient integration of pluripotent stem cell-derived cardiogenic cells into engineered heart tissue (EHT)" 2008 Stem Cell Network Annual Meeting, Nov , 2008 (oral and poster)

72. Miyagi Y, Chiu L, Cimini M, Kitagawa A, Weisel RD, **Radisic M**, Li R-K: " Biodegradable Collagen Patch with Covalently Bound VEGF Improves Right Ventricular Repair" American Heart Association Scientific Sessions 2008, November 8-12, 2008, New Orleans, LA. (oral)

73. Chiu LLY and **Radisic M**: "Scaffolds Covalently Immobilized with VEGF and Angiopoietin-1 to Promote Angiogenesis in Engineered Cardiac Tissues." AIChE Annual Meeting 2008, November 16-21, 2008, Philadelphia,PA.(oral)

74. Cimini M, Chiu L, Miyagi Y, Kitagawa A, Weisel RD, **Radisic M,** Li R: "Improved healing of a biodegradable collagen patch by inducing angiogenesis in the right ventricular outflow tract via covalently immobilized vegf" The 2008 Canadian Cardiovascular Congress, Toronto, ON, October 2008 (oral)

75. Chowdhury MF, Stanford WL, **Radisic M**: "Site-specific patterned differentiation of murine embryonic stem cells to vascular cells" 2008 IBBME Scientific Day, University of Toronto

76. Chowdhury MF, Stanford WL, **Radisic M**: "Site-specific patterned differentiation of embryonic stem cells to vascular cells" The 2008 Annual Meeting of the Tissue Engineering and Regenerative Society-Europe, Porto, Portugal, June 2008 (oral)

77. Green JV, Plouffe BD, **Radisic M**, Murthy SK: "Microfluidic Cell Separation for Tissue Engineering and Cell-Based Regenerative Therapeutics." Biomedical Engineering Society Annual Fall Meeting, St. Louis, MO. October 2, 2008 (oral)

78. Green JV, **Radisic M**, Murthy SK: "Microfluidic Cell Separation for Tissue Engineering and Cell-Based Regenerative Therapeutics." Center for Integration of Medicine & Innovative Technology (CIMIT) Innovation Congress 2008, Boston, MA. October 28-29, 2008. (poster)

79. Iyer RK, Chui J, **Radisic M:** "Cell Tracking and Cell Ratio Modulation for Cardiac Tissue Engineering" AIChE Annual Meeting 2008, November 16-21, 2008, Philadelphia, PA. (oral)

80. Green JV, Plouffe BD, **Radisic M**, Murthy SK: "Negative Selection Separation of Cells In Microfluidic Devices", AIChE Annual Meeting 2008, November 16-21, 2008, Philadelphia, PA. (oral)

81. Brown MA, Murthy SK, **Radisic M**: "Characterization of Microfluidic Devices for Cell Separation via Adhesion to Peptide-Functionalized Surfaces", AIChE Annual Meeting 2008, November 16-21, 2008, Philadelphia, PA. (oral)

82. Iyer RK, Chui J, **Radisic M**: "Cell Tracking and Cell Ratio Optimization for Cardiac Tissue Engineering" The 2008 Annual Meeting of the Tissue Engineering and Regenerative Society-North America, Dec 07-10, 2008, San Diego, CA. (oral)

83. Green JV, Plouffe BD, **Radisic M**, Murthy SK : "Effect of Microchannel Geometry in a Cell-Affinity Chromatography Process" 23rd International Symposium on Microscale Bioseparations, Boston, MA. February 4, 2009 (poster)

84. Plouffe BD, Brown MA, **Radisic M**, Murthy SK: "Capture and Release of Cardiac Fibroblasts in Microfluidic Devices using Peptide-Functionalized Alginate Gels." Materials Research Society Spring 2009 National Meeting, San Francisco, CA. April 15, 2009 (oral)

85. Green JV, **Radisic M**, Murthy SK: "Peptide-Functionalized Surfaces in Microfluidic Devices for Cell Separation by Negative Selection." Materials Research Society Spring 2009 National Meeting, San Francisco, CA. April 15, 2009 (oral)

86. Rask F, Radisic M: "An Injectable hydrogel for the site-specific delivery of cardiomyocytes to the heart" (poster) IBBME Scientific Day, May 14, 2009 (poster)

87. Chiu LLY, Radisic M: "Scaffolds Covalently Immobilized with VEGF and Angiopoietin-1 to Promote Angiogenesis in Engineered Cardiac Tissues" IBBME Scientific Day, May 14, 2009(poster)

88. Odedra D, Radisic M, Shoichet M: "Biomaterials with Growth Factor Gradients for Cardiac Tissue Engineering" IBBME Scientific Day, May 14, 2009 (poster)

89. Chiu LLY and **Radisic M**: "Scaffolds Immobilized with VEGF and Angiopoietin-1 to Create Cardiovascular

90. Grafts. 8th World Congress of Chemical Engineering, August 23-27, 2009, Montreal, QC (oral)

91. Chiu LLY, **Radisic M**: "Scaffolds covalently immobilized with VEGF and Angiopoietin-1 to promote angiogenesis in engineered cardiac tissues" Heart and Stroke Richard Lewar Centre of Excellence Scientific Day April 23, 2009 (poster) *Loraine was one of 5 finalists of the poster competition. Total of 43 posters were presented.

92. Dengler J, Zandstra P, **Radisic M:** "An in vitro model system for cardiac cell therapy" Heart and Stroke Richard Lewar Centre of Excellence Scientific Day April 23, 2009 (poster)

93. Rask F, **Radisic M**: "An injectable hydrogel for the site-specific delivery of cardiomyocytes to the heart" Heart and Stroke Richard Lewar Centre of Excellence Scientific Day April 23, 2009 (poster)

94. Green JV, Plouffe BD, **Radisic M**, Murthy SK: "Microfluidic Cell Separation - Applications & Challenges in

95. Tissue Engineering." Gordon Conference on Physics & Chemistry of Microfluidics, Lucca, Italy. June 30-July 2, 2009. (poster)

96. Green JV, **Radisic M**, Murthy SK: "Deterministic Lateral Displacement as a Means to Enrich Large Cells for Tissue Engineering" 2009 Annual Meeting of AIChE, Nov 11, 2009, Nashville, TN (oral)

97. Plouffe BD, Brown MA, **Radisic M**, Murthy SK: "Capture and Release of Cardiac Fibroblasts in Microfluidic Devices Using Peptide-Functionalized Alginate Gels" 2009 Annual Meeting of AIChE, Nov 10, 2009, Nashville, TN (oral)

98. Chiu LLY, Chiang K, Stanford WL and **Radisic M**: "Covalently Immobilized Growth Factors for Control of Progenitor Cell Differentiation and Vascularization of Engineered Tissues" Materials Research Society Annual Meeting, November 30 - December 4, 2009, Boston, MA (oral)

99. Song H, Yoon C, Kattman SJ, Dengler J, Masse S, Thavaratnam T, Gewarges M, Nanthakumar K, Keller GM, Rubart M, **Radisic M**, Zandstra PW: "Interrogating functional integration between injected cells and surrogate cardiac tissue", Stem Cell Network Annual General Meeting. November 1-4, 2009, Montreal, QC, Canada (poster)

100. Song H, Yoon C, Kattman SJ, Dengler J, Masse S, Thavaratnam T, Gewarges M, Nanthakumar K, Keller GM, Rubart M, **Radisic M**, Zandstra PW: "Engineered heart tissue: an in vitro model system for cardiac disease and stem cell therapy" Cardiac Discussion Group, McEwan Centre, February 11th, 2010 (oral)

101. Chiu LLY, Miyagi Y, Cimini M, Weisel RD, Li R-K, **Radisic M**: "Scaffolds Immobilized with VEGF and Angiopoietin-1 to Create Cardiovascular Grafts".Cardiac Discussion Group, McEwan Centre, February 25th, 2010 (oral)

102. Chiu L, Chiang K, Chowdhury K, Stanford WL, **Radisic M**: "Covalently Immobilized Growth Factors Enable Scaffold Vascularization and Site-specific Vascular Progenitor Differentiation" Regenerative Medicine: Advancing to Next Generation Therapies, The Annual Hilton Head Workshop, March 10-14, 2010 (oral)

103. Song H, Dengler J, Yoon C, Masse S, Nanthakumar K, Keller G, Zandstra P, **Radisic M:** "Engineered heart tissue enables interrogation of regenerative potential of injected pluripotent stem cells and their derivatives" Society for Biological Engineering's Second International Conference on Stem Cell Engineering, May 02-05, 2010, Boston, MA (oral)

104. Iyer RK, Odedra D, Vunjak-Novakovic G, **Radisic M**. "VEGF signaling regulates phenotypeand function in Precultured versus Tricultured Engineered Cardiac Tissues through changes inCx-43." Institute of Biomaterials and Biomedical Engineering (IBBME) E. Llewellyn Thomas Scientific Day. May 19, 2010, Toronto, ON (poster, honorable mention).

105. Chiang CK, Stanford WL, **Radisic M**: "Site-specific differentiation of cardiovascular progenitor cells in 3d vascular constructs for cardiac tissue engineering" 2010 NSERC Create MATCH Student Symposium, May 20-21, 2010, Toronto, ON (poster)

106. Odedra D**, Radisic M**, Shoichet M: "A novel platform for generation of immobilized protein gradients on biomaterials for cardiac tissue engineering." Ontario-on-a-chip and MATCH Annual Symposium. May 20-21, 2010, Toronto, ON. (Poster)

107. Chiu L, Chiang CK, Chowdhury MF, Stanford WL, **Radisic M**: "Covalent immobilization of growth factors for vascular tissue engineering" 93rd Canadian Chemistry Conference and Exhibition, May 29-June 02, 2010, Toronto, ON (poster)

108. Chiu LLY, Chiang CK, Chowdhury MF, Stanford WL, **Radisic M**: "Covalent immobilization of growth factors for vascular tissue engineering" 93rd Canadian Chemistry Conference, May 29- June 02, 2010, Toronto, ON (poster)

109. Odedra D, **Radisic M**, Shoichet M: "A novel platform for generation of immobilized protein gradients on biomaterials for cardiac tissue engineering." IBBME Scientific Day. May 19, 2010, Toronto, ON. (Poster)

110. Odedra D, **Radisic M**, Shoichet M: "A novel platform for generation of immobilized protein gradients on biomaterials for cardiac tissue engineering." The 28th Canadian Biomaterials Society Meeting. June 2-4, 2010, Kingston, ON. (Poster)

111. Thavandiran N, Zandstra P, **Radisic M**: "Investigating Heart Development and Disease using Engineered Heart Microtissue Bioreactors" 28th Canadian Biomaterials Society Meeting, June 02-05, 2010, Kingston, Ontario (poster)

112. Thavandiran N, Zandstra P, **Radisic M**: "Investigating Heart Development and Disease using Engineered Heart Microtissue Bioreactors" Ontario on a Chip/MATCH Symposium, June 2010, Toronto, Ontario (poster)

113. Chiang CK, Stanford WL, **Radisic M**: "Site-specific Differentiation of Cardiovascular Progenitor Cells for Cardiac Tissue Engineering" Cardiac Discussion Group Meeting, McEwan Centre, June 10, 2010, Toronto, ON (oral)

114. Reis L, Huynh K, **Radisic M**: "Development of a peptide modified collagen-chitosan hydrogel for the site-specific delivery of cardiomyocytes to the heart" 28th Canadian Biomaterials Society Meeting, June 4-6, 2010, Kingston, ON. (Poster).

115. Chiang CK, Stanford WL, **Radisic M**: "Site-specific Differentiation of Cardiovascular Progenitor Cells in 3D Vascular Constructs for Cardiac Tissue Engineering" 28th Canadian Biomaterials Society Meeting, June 02-04, 2010, Kingston ON (oral)

116. Song H, Zandstra PW, **Radisic M**. "Reverse of Myosin isoform conversion by insulin therapy in engineered heart tissue", October 6-9, 2010, BMES 2010, Austin, TX, USA

117. **Radisic M**: "Engineered heart tissue", Cardiovascular Seminar, American Heart Association, Scientific Sessions, November 14-16, 2010, Chicago, IL (oral)

118. Chiang CK, Chowdhury MF, Stanford WL, **Radisic M**: "Immobilized Growth Factors and Site-Specific Differentiation of ES-derived Vascular Progenitors" Stem Cell Network Annual Scientific Meeting, November 22-24, 2010, Calgary, AB (poster)

119. Iyer RK, Odedra D, Vunjak-Novakovic G, **Radisic M**. "VEGF-Cx43 Signaling Dynamics Modulate Structure and Function in Engineered Cardiac Tissues." Tissue Engineering and Regenerative Medicine International Society (TERMIS), Orlando, FL, December 5-8, 2010 (poster, finalist).

120. Chiang CK, Stanford WL, **Radisic M**: "Site-specific Differentiation of Embryonic Stem Cell Derived Progenitor Cells for Cardiac Tissue Engineering" TERMIS-NA 2010Annual Conference, December 05-08, 2010, Orlando, FL (poster)

121. Iyer RK, Odedra DO, Vunjak-Novakovic G, **Radisic M:** "Connexin-43 Expression in Cardiomyocytes is Transcriptionally and Translationally Regulated by VEGF/VEGFR2 Binding in Engineered Heart Tissues." IBBME Scientific Day, May 19, 2011 (oral)

122. Song H, **Radisic M**, Zandstra PW, "2D and 3D quantitative cellular and molecular screening test beds for myocardial infarction and cell therapy", January 22-27, 2012, Taos, New Mexico, USA (poster)

123. Song H, Yoon C, Fluri D, Thravandiran N, Masse S, Rubart M, Nanthakumar K, Keller G, **Radisic M**, Zandstra. "Quantitative cellular and molecular screening strategies for myocardial infarction reveal a potential cardiac regenerative therapy", ISSCR June 15-18, 2011, Toronto, Canada (poster)

124. Song H, Yoon C, Fluri D, Thravandiran N, Masse S, Rubart M, Nanthakumar K, Zandstra P, **Radisic M**. "Quantitative cellular and molecular screening of pluripotent stem cell derivatives in an engineered heart tissue model", June 7-10, 2011, TERMIS-EU, Granada, Spain (oral)

125. Zhang B, Green J, Murthy S, **Radisic M**."Label-free size-based separation of cardiomyocytes in microfluidic system" MATCH Symposium, June 2011 (oral)

126. Zhang B, Green J, Murthy S, **Radisic M**. "Label-free size-based separation of cardiomyocytes in microfluidic system" IBBME Scientific Day, University of Toronto, May 19, 2011 (oral)

127. Chiu, LLY, Liang, Y, **Radisic, M**: "Oriented Capillary Structures for Cardiac Tissue Engineering." 2011 BMES Annual Meeting, October 12-15, 2011. Hartford, CT. (oral)

128. Chiu, LLY, Liang, Y, **Radisic, M:** "Oriented Capillary Outgrowths for Cardiac Tissue Engineering." IBBME

129. Scientific Day 2011, University of Toronto, May 19, 2011. Toronto, ON. (oral)

130. Reis L, Chiu LLY, Liang Y, Huynh K, & **Radisic M**. "A peptide modified collagen-chitosan hydrogel for the site-specific delivery of cardiomyocytes to the heart." University of Toronto Institute of Biomaterials & Biomedical Engineering Scientific Day May 19, 2011 (Poster)

131. Reis L, Chiu LLY, Wu J, Momen A, Li RK, & **Radisic M**. "A bio-instructive hydrogel for cardiac regeneration." 5th Annual Regenerative Medicine Symposium, Toronto, ON, CAN, April 4-5, 2012 (Oral)

132. Reis L, Chiu LLY, Wu J, Momen A, Li RK, & **Radisic M**. "A peptide modified hydrogel to reduce long term effect of acute myocardial infarction." University of Toronto Institute of Biomaterials & Biomedical Engineering Scientific Day May 7, 2012 (Poster)

133. Reis L, Chiu LLY, Wu J, Momen A, Li RK, & **Radisic M**. "A peptide modified hydrogel for cardiac regeneration." Canadian Student Health Research Forum, Winnipeg, MB, CAN, June 13, 2012 (Poster)

134. Nunes SS, Miklas JW, Xiao Y, Gagliardi M, Keller G and **Radisic M**: "Electrical field stimulation maturation of human embryonic stem cell-derived cardiomyocytes". Ontario Stem Cell Network Till & McCulloch Meetings. 2012 (poster)

135. Nunes SS, Dang L, Gagliardi M, Keller G and **Radisic M**: "Use of human embryonic stem cell-derived cardiomyocytes as an in vitro model of human cardiovascular hypertrophy". Personalized Medicine in the Genomics Era, 2011 (poster)

136. Xiao Y, **Radisic M:** "Engineering Cardiac Organoids with Microfabricated Devices" IBBME Scientific Day, May 19, 2011 (poster)

137. Iyer RK, Chui J, Odedra D, Chiu LLY, Vunjak-Novakovic G, **Radisic M**. Cardiac Tissue Engineering: Micro-scale Technologies and Applications. IEEE Engineering Medicine and Biology (EMBC) Nanobiomaterials Session, August 30, 2011 (oral).

138. Rashedi I, Wang X, Viswanathan S, **Radisic M**, Keating A: "Bone marrow mesenchymal stromal cell: the effect of environment on cardiogenic cellular reprogramming". Till & McCulloch annual meeting, April 30-May 2, 2012.

139. Rashedi I, Radisic M, Keating A: "characterization of bone marrow mesenchymal stromal cells undergoing cardiac lineage differentiation". 9th annual meeting of International Society for Stem Cell Research, June 15-18, 2011 (poster).

140. Rashedi I, **Radisic M**, Keating A: "characterization of bone marrow mesenchymal stromal cells undergoing cardiac lineage differentiation". IBBME Scientific Day, May 19, 2011 (poster).

141. Vasconcelos S, Xiao Y, Thavandiran N, Au H, **Radisic M**. "Microbioreactors for cardiac tissue engineering", June 7-10, 2011, TERMIS-EU, Granada, Spain (oral)

142. Hsieh A, Sofla A, **Radisic M**: "Label-free Cardiomyocyte Enrichment in Microfabricated Device" Microtechnology Conference and Expo, Boston, MA, 2011 (poster)

143. Hsieh A, Sofla A, **Radisic M**: "Label-free, cardiomyocyte enrichment: A biochemical and microfabricated approach", BMES Annual Meeting, Hartford, CT, 2011 (poster)

144. Hsieh A, Sofla A, **Radisic M;** "Cardiomyocyte enrichment in microfabricated device", Ontario-on-Chip/MATCH Symposium, Toronto, ON, 2011 (poster)

145. N. Thavandiran, N. Dubois, S. Masse, B. Beca, C. A. Simmons, P. McGarry, V. Deshpande. C. S. Chen, K. Nanthakumar. G. Keller, **M. Radisic**, P. W. Zandstra. Engineering the heart cell niche in a microscale self-assembling tissue-mimetic in vitro model. Microfluidic Applications and Training in Cardiovascular Health (MATCH)/Ontario On A Chip (OOAC) symposium. Toronto, Canada, 2011 (poster). Best poster award.

146. N. Thavandiran, N. Dubois, S. Masse, B. Beca, C. A. Simmons, P. McGarry, V. Deshpande. C. S. Chen, K. Nanthakumar. G. Keller, **M. Radisic**, P. W. Zandstra. (2011) Cardiac MicroWire: A microengineered tissue-mimetic system for studying cardiac development and disease. Microtechnologies in Medicine and Biology (MMB). Lucerne, Switzerland. (Podium/poster presentation), 2011 Best talk/poster award.

147. Boudou T, Legant WR, Mu A, Borochin MA, Thavandiran N, **Radisic M,** Zandstra PW, Epstein JA, Margulies KB, Chen CS: "A Microfabricated Platform to Measure and Manipulate the Mechanics of Engineered Cardiac Microtissues", ASME 2012 Summer Bioengineering Conference, June 20-23, 2012 Fajarado, Puerto Rico

148. Li M, Traister A, Aafaqi S, Lu M, Jiang J, Guido F, Sherret J, **Radisic M**, Gross G, Hannigan G, Maynes J, Coles J: " Integrin-Linked Kinase Regulates Cardiomyocyte Calcium Signaling through Protein-Protein Interaction with Sarcoplasmic Reticulum Calcium ATPase" American Heart Association Scientific Sessions, Los Angeles, CA, Nov 3-7, 2012 (poster)

149. Montgomery M, **Radisic M**: "An Elastomeric, Biodegradable Cardiac Patch for Myocardial Infarction Treatment" Scientific Writing II, Chemical Engineering and Applied Chemistry, University of Toronto, April 1, 2013 (poster)

150. Miklas J.W, Nunes S.S, Xiao Y, Gagliardi M Keller G, **Radisic M**: "An in vitro model of hypertrophic engineered heart tissue" 2012 Till and McCulloch Meetings, Montreal, QC. April 29 – May 4, 2012 (poster)

151. Miklas J.W, Nunes S.S, Keller G, and **Radisic M**: "An in vitro model of hypertrophic engineered heart tissue" Institute of Biomaterials and Biomedical Engineering Scientific Day, Toronto, ON. May 7, 2012 (poster)

152. Nunes SS, Miklas JW, Xiao Y, Gagliardi M, Keller G and Radisic M. "Electrical field stimulation promotes maturation of human embryonic stem cell-derived cardiomyocytes". Ontario Stem Cell Network Till & McCulloch Meetings. 2012. (poster)
Hsieh A, **Radisic M**: "The development of cardiomyocyte separation, a biochemical and microfluidic approach" Ontario-on-a-Chip and MATCH ,Toronto, ON, May 17-18, 2012 (poster)

153. Rashedi I, Wang XH, **Radisic M**, Keating A: "Cardiac Reprogramming of TLR-Activated Human Bone Marrow Mesenchymal Stromal Cells" Hematology & Hematopathology Research Day, University of Toronto, Toronto, Canada, April 23, 2013, (poster)

154. Rashedi I, Wang XH, Viswanathan S, **Radisic M**, Keating A: "Human Bone Marrow Mesenchymal Stromal Cells: The Effect of Environment on Cardiogenic Cellular Reprogramming" Hematology & Hematopathology Research Day, University of Toronto, Toronto, Canada, May 8, 2012, poster.

155. Rashedi I, Wang XH, Viswanathan S, **Radisic M**, Keating A: "Human Bone Marrow Mesenchymal Stromal Cells: The Effect of Environment on Cardiogenic Cellular Reprogramming", IBBME Research Day, University of Toronto, Toronto, Canada, May 7, 2012, (poster)

156. Rashedi I, Wang XH, Viswanathan S, **Radisic M**, Keating A: "Human Bone Marrow Mesenchymal Stromal Cells: The Effect of Environment on Cardiogenic Cellular Reprogramming" Till & McCulloch meeting, Montreal, Canada, April 30- May 2, 2012, (poster)

157. Zhang B, **Radisic M**: "Synthetic Cardiac Tissue Patch with Built-in Vasculature Allows for Direct Vascular Anastomosis in Cardiac Repair", MATCH Symposium, Toronto, ON May 24th, 2013 (oral)

158. XiaoY, Zhang B, Liu H, Miklas JW, Gagliardi M, Pahnke A, Thavandiran N, Sun Y, Simmons CA, Keller G,

159. **Radisic M** "Cardiac biowires mimicking native cardiac bundles generated by microfabricated bioreactors" 30th Annual Meeting of the Canadian Biomaterials Society, Ottawa, ON May 2013 (poster)

160. Reis L.A., Chiu L.L.Y., Wu J., Momen A., Li R.K., & **Radisic M**. "A peptide modified hydrogel for treatment after acute myocardial infarction. 30th Annual Meeting of the Canadian Biomaterials Society, Ottawa, Ottawa, ON, May 2013 (poster)

161. Chiu L, Montgomery M, Liang Y, Liu H, **Radisic M**: "Perfusable branching microvessel bed for vascularization of engineered tissues", Canadian Medical and Biomedical Engineering Society (CMBES), Ottawa, ON, May 21-24, 2013 (poster)

162. Montgomery M, **Radisic M**: "Developing a Biodegradable Elastic Cardiac Patch for Myocardial Infarction Therapy" Ontario-on-a-Chip (OOAC)/MATCH, University of Toronto, Toronto, ON, May 23-24th, 2013 (poster)

163. Montgomery M, **Radisic M**: "An Elastomeric, Biodegradable Cardiac Patch for Myocardial Infarction Therapy "IBBME Scientific Day, University of Toronto, Toronto, ON May 02nd, 2013 (poster)

164. Nunes SS, Miklas JW, Liu J, Aschar-Sobi R, Xiao Y, Zhang B, Jiang J, Masse S, Nanthakumar K, Gross G, Backx P, Keller G and **Radisic M**. "Biowire: a platform for maturation of human pluripoten stem cell derived cardiomyocytes". Biomedical Engineering Society (BMES) Annual Meeting, Seattle,WA, Sept 25-28, 2013. (Oral)

165. Zhang B, Montgomery M, Pahnke A, Reis L, Nunes SS, **Radisic M**: "MICROFLUIDIC TISSUE: A BIODEGRADABLE SCAFFOLD WITH BUILT-IN VASCULATURE FOR CARDIAC TISSUE VASCULARIZATION AND SURGICAL VASCULAR ANASTOMOSIS" mTAS, 27-31 October, 2013 Freiburg, Germany (Oral)

166. Montgomery M, Zhang B, **Radisic M**: "BioMesh: An Injectable Tissue for Minimally Invasive Cardiac Repair" Centre for Microfluidic Systems in Chemistry and Biology Small Talks Competition, August 28th, 2013 (oral, Awarded 1st Prize)

167. Zhang B, Montgomery M, **Radisic M**: "BioSynMartix: Human on a Plate" Centre for Microfluidic Systems in Chemistry and Biology Sales Pitch Competition, August 28th, 2013 (oral, Awarded 1st Prize)

168. Zhang B, **Radisic M** "Microfluidic tissue: a biodegradable scaffold with built-in vasculature for cardiac tissue vascularization and surgical vascular anastomoses"17th international conference on miniaturized system for chemistry and life sciences, Freiburg, Germany, 2013, (oral).

169. Nimalan Thavandiran, Samuel McEwen, George Graham, **Milica Radisic**, Peter Zandstra: "Re-engineering the 96-well plate using 3D printing: A screening platform for measuring contractile force in engineered cardiac microtissues" Keystone Meeting, April 2014

170. Hsieh A, Ramachandran A, **Radisic M**: "High gradient magnetic separation of label-free cardiomyocytes" CSCHE Ontario-Quebec Biotechnology Meeting, May 15-16, 2014, Toronto, ON

171. Hsieh A, Ramachandran A, **Radisic M**: "High gradient magnetic separation of label-free cardiomyocytes" Ontario-on Chip & MATCH symposium, May 29-30, 2014, Toronto (poster)

172. Reis L.A., Chiu L.L.Y., Wu J., Feric N., Momen A., Li R.K., **Radisic M**. A peptide modified hydrogel therapy for acute myocardial infarction. 2014 Annual University of Toronto Institute of Biomaterials & Biomedical Engineering Scientific Day, May 2014, Toronto, ON, CAN (poster)

173. Hsieh A, Ramachandran A, **Radisic M**: "High gradient magnetic separation of label-free cardiomyocytes" The Till & McCulloch Meetings, October 27-29, 2014, Ottawa, ON (poster)

174. Xiao Y, **Radisic M**: "Chitosan-Collagen Hydrogel Modified with QHREDGS Peptide for Wound Healing" 2014 TERMIS-AM Annual Meeting, December 13th-16th, 2014, Washington, DC (poster)

175. Xiao Y, Zhang B, Liu H, Sun Y, Simmons C, **Radisic M**:"Microfabricated Perfusable Cardiac Biowire: A Platform That Mimics Native Cardiac Bundle" 2014 TERMIS-AM Annual Meeting, December 13th-16th, 2014, Washington, DC (oral)

176. Montgomery M, Zhang B, Reis L, Radisic M: "Designing a Shape--Memory Scaffold for Minimally Invasive Functional Cardiac Tissue Delivery" Canadian Biomaterials Society Annual Meeting, May 27th-30th, 2015, Toronto, ON (oral)

177. Thavandiran, N; Blit P, Graham G, Prowse A, Gagliardi M, Witty A, Afshar M, Ostblom J, Chau E, McEwen S, Gilbert P, Keller G, **Radisic M**, Zandstra P: "Next-generation 96-well tissue culture plates re-engineered via 3D printing: A screening platform for measuring contractile force in human pluripotent stem cell-derived cardiac microtissues " European Society of Animal Cell Technology (ESACT) Meeting, May 30th, 2015 Barcelona, Spain (oral)

178. Thavandiran, N; Blit P, Graham G, Prowse A, Gagliardi M, Witty A, Afshar M, Ostblom J, Chau E, McEwen S, Gilbert P, Keller G, **Radisic M**, Zandstra P: "Next-generation 96-well tissue culture plates re-engineered via 3D printing: A screening platform for measuring contractile force in human pluripotent

stem cell-derived cardiac microtissues. Microfluidic Applications and Training in Cardiovascular Health (MATCH)/Ontario On A Chip (OOAC) symposium. May 29, 2015, Toronto, ON Canada (oral)

179. Zhang B, Montgomery M, Chamberlain MD, Ogawa S, Korolj A, Pahnke A, Wells LA, Massé S, Kim J, Reis L, Momen A, Nunes SS, Wheeler AR, Nanthakumar K, Keller G, Sefton MV, **Radisic M**: " Biodegradable scaffold with built-in vasculature for organ-on-a-chip engineering and direct surgical anastomosis" Nature Conference on Tissue Engineering and Regenerative Medicine, Guangzhou, China. April 7-9, 2016 (oral)

180. Korolj A, Zhang B, Montgomery M, **Radisic M**: "Biomaterials with Fine-Tunable Properties for Soft Tissue Engineering" Canadian Biomaterials Society Annual Meeting, May 27-30, 2015, Toronto, ON (oral)

181. Xiao Y, **Radisic M**: "Angiopoietin-1-derived peptide promotes keratinocyte survival and diabetic wound healing", 10th World Biomaterials Congress, Montreal, Quebec, Canada. May 17-22, 2016 (oral)

182. Ahadian S, Yamada S, Estili M, Liang X, Nakajima K, Shiku H, Matsue T, **Radisic M**: "Carbon nanotubes embedded in embryoid bodies direct cardiac differentiation", 10th World Biomaterials Congress, Montreal, Quebec, Canada. May 17-22, 2016 (oral)

183. Conant G, Zhao Y, **Radisic M:** "High-throughput analysis of kinase inhibitor drugs on cardiac function using engineered heart tissue constructs" 10th World Biomaterials Congress, Montreal, Quebec, Canada. May 17-22, 2016 (poster)

184. Davenport Huyer, L., Zhang, B., Montgomery, M., Korolj, A., Drecun, S., Conant, G., Radisic, M: "A highly elastic and moldable polyester biomaterial for cardiac tissue engineering applications" 10th World Biomaterials Congress, Montreal, Quebec, Canada. May 17-22, 2016 (oral)

185. Feric N, Cheng CHC, Goh MC, Dudnyk V, Di Tizio V, **Radisic M**:"Biomedical materials modified with the Angiopoietin-1-derived peptide QHREDGS induce osteoblast differentiation, bone matrix deposition and mineralization" 10th World Biomaterials Congress, Montreal, Quebec, Canada. May 17-22, 2016 (oral)

186. Korolj A, Zhang B, Montgomery M, **Radisic M**: "Study of a synthetic elastomer with tunable mechanical properties", 10th World Biomaterials Congress, Montreal, Quebec, Canada. May 17-22, 2016 (poster)

187. Zhang B, Montgomery M, Chamberlain MD, Ogawa S, Korolj A, Pahnke A, Wells LA, Massé S, Kim J, Reis L, Momen A, Nunes SS, Wheeler AR, Nanthakumar K, Keller G, Sefton MV, **Radisic M**: "AngioChip: a biodegradable scaffold with built-in vasculature for organ-on-a-chip engineering and direct surgical anastomosis", 10th World Biomaterials Congress, Montreal, Quebec, Canada. May 17-22, 2016 (oral)

188. Zhao, Y., Feric, N., Zhang, B., Aschar-Sobbi, R., Ronaldson, K., Conant, G., Pahnke, A.,Vunjak-Novakovic, G., Backx, P., and **Radisic, M**: "High Throughput Drug Testing Platform for Long Term Cardiotoxicity Monitoring Using High Fidelity Engineered Cardiac Tissue" 10th World Biomaterials Congress, Montreal, Quebec, Canada. May 17-22, 2016 (poster)

189. Korolj A, Zhang B, Laschinger C, **Radisic M**: "Microfabrication of a biomimetic 'bubbly' surface" Ontario-on-a-Chip Symposium, Toronto, Ontario, Canada. May 26-27, 2016 (poster)

190. Korolj A, Zhang B, Laschinger C, James C, Hu E, Willette R, **Radisic M**: "Biomimetic curvatures in 3D cell culture platform improves podocyte differentiation in vitro" Toronto General Research Institute Research Day, Toronto, Ontario, Canada. October 6, 2016 (poster, moderated)

191. Korolj A, Zhang B, Laschinger C, James C, Hu E, Willette R, **Radisic M**: "Biomimetic 3D platform inducesnephrin upregulation in differentiating podocytes" 20th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Dublin, Ireland. October 9-13, 2016 (poster)

192. Ahadian S, Davenport Huyer L, Estili M, Yee B, Smith N, Xu Z, Sun Y, **Radisic M**: "Hybrid carbonnanotube-polymer scaffolds for cardiac tissue regeneration" 5th International Conference on Stem Cell Engineering, Toronto, Ontario, Canada. October 23-26, 2016 (poster)

193. Korolj A, Zhang B, Laschinger C, James C, Hu E, Willette r, **Radisic M**: "Geometric cues in bioengineered scaffold enhance podocyte differentiation in vitro" International Conference on Stem Cell Engineering, Toronto, Ontario, Canada. October 23-26, 2016 (poster)

194. Davenport Huyer L, Zhang B, Montgomery M, Korolj A, Drecun S, Conant G, Reis L, **Radisic M**: "Highly elastic and moldable polyester biomaterial for cardiac tissue engineering applications" 2016 TERMIS-Americas Conference and Exhibition, San Diego, California, USA. Dec 11-14, 2016 (Podium)

195. Montgomery M, Zhang B, Davenport-Huyer L, Korolj A, **Radisic M**: "Platform Technology for Assembly of Instantaneously Functional Mosaic Tissues" Tissue Engineering and Regenerative Medicine International Society - Americas Annual Meeting, San Diego, California, USA. Dec 11-14, 2016 (oral)

196. Ahadian S, Davenport Huyer L, Smith N, **Radisic M**: "Hybrid carbon nanotube-polymer scaffolds for cardiac tissue regeneration" Microfluids, BioMEMS, and Medical Microsystems XV, San Francisco, SA. Jan 28-Feb 2, 2017 (oral)

197. Korolj A, Laschinger C, James C, Hu E, Willette R, Ahadian S, **Radisic M**, Zhang B: "Biometric curvature in cell culture platform improves podocyte differentiation in vitro" Keystone Symposia on Molecular and Cellular Biology: Engineered Cells and Tissues as Platforms for Discovery and Therapy, Boston, Massachusetts, USA. March 9-12, 2017 (poster and oral)

198. Zhao Y, Wang EY, Simmons C, Bhattacharya S, **Radisic M**: "Biowire II platform: a microfabricated device for cardiac fibrosis disease modelling" Engineered Cells and Tissues as Platforms for Discovery and Therapy (K1) Conference, Boston, Massachusetts, USA. March 9-12, 2017 (abstract)

199. Montgomery M, **Radisic M:** "Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues" ChemE Research Exhibition, Toronto, Ontario, Canada April 7, 2017 (oral)

200. Montgomery M, **M. Radisic**: "Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues", Ontario-on-a-chip, Toronto, ON, Canada, May, 2017 (oral)

201. Montgomery M, **Radisic M:** "Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues" Ontario Institute of Regenerative Medicine, Toronto, Ontario, Canada May, 2017 (oral)

202. Montgomery M, **Radisic M**: "Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues". Institute of Biomaterials and Biomedical Engineering Annual Research Day, Toronto, ON, Canada, May, 2017 (oral)

203. Lai F, **Radisic M**: "Perfusable vascularized tissues for drug testing and modeling inter-organ biological events on a microfluidic plate" 12th Annual Ontario on a Chip/ToEP Symposium, University of Toronto, Toronto, Ontario, Canada. May 25-26, 2017 (poster)

204. Korolj A, Laschinger C, James C, Hu E, Willete R, Smith N, Ahadian S, **Radisic M**, Zhang B: " Biomimetic curvature in cell culture platform improves podocyte differentiation in vitro" Ontario-on-a-Chip Symposium, Toronto, Ontario, Canada. May 25-26, 2017 (oral)

205. Hossein M, **Radisic M**: "Development of functional heart ventricle using hiPSC-derived cardiomyocytes" 12th Annual Ontario-on-Chip Symposium, Toronto, Ontario, Canada. May 25-26, 2017 (poster)

206. Montgomery M, **Radisic M:** "Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues" 12th Annual Ontario-on-a-chip, Toronto, Ontario, Canada. May 25-26, 2017 (Oral)

207. Montgomery M, **Radisic M**:"Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues", Ontario Institute of Regenerative Medicine Research Symposium, Toronto, ON, Canada, May 25-26, 2017 (oral)

208. Davenport Huyer L, Montgomery, **M, Radisic**, M. "Noxa Biomedical: Antimicrobial polymer solutions" Ontario on a Chip Symposium, Toronto, Ontario, CA May 25-26, 2017 (Oral, Awarded best pitch)

209. Bannerman D, Duong B, Jadidian P, Voicu D, Guenther A. "Fabrication of a Flow Focusing Microfluidic Device for Generation of Flavoured Alginate Microgels". Ontario-on-a-chip, Toronto, Ontario, May 25-26, 2017 (poster).

210. Davenport Huyer L*, Ahadian, S.*, Estill, M., Yee, B., Smith, N., Zhensong, X., Sun, Y., **Radisic, M**. "Moldable elastomeric polyester-carbon nanotube scaffolds for cardiac tissue engineering" Ontario on a Chip Symposium, Toronto, Ontario, CA May 25-26, 2017 (Poster, Awarded best poster)

211. Montgomery M, **Radisic M:** "Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues" Ontario Institute of Regenerative Medicine, Toronto, Ontario, Canada May 26, 2017 (poster)

212. Korolj A, Laschinger C, James C, Hu E, Willette R, Velinkonja C, Smith N, Ahadian S, **Radisic M**, Zhang B: "Tissue architecture in the cell microenvironment: Microcurvature promotes differentiation of kidney podocytes" Gordon Conference on Biomaterials and Tissue Engineering, Holderness, NH, USA. July 23-28, 2017 (poster)

213. Davenport Huyer, L.*, Ahadian, S.*, Estill, M., Yee, B., Smith, N., Zhensong, X., Sun, Y., **Radisic, M**. "Moldable elastomeric polyester-carbon nanotube scaffolds for cardiac tissue engineering" Gordon Research Conference: Biomaterials & Tissue Engineering. Holderness, New Hampshire, USA July 23-28, 2017 (Poster)

214. Montgomery M, **Radisic M**: "Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues", Biomedical Engineering Society Annual Meeting, Phoenix, Arizona, USA, October 10-14, 2017 (oral)

215. Lai F, **Radisic M:** "InVADE: Integrated Vasculature for Assessing Dynamic Events" Toronto General Research Institute Research Day, Toronto, Ontario, Canada. October 11, 2017 (poster)

216. Bannerman D, **Radisic M:** "Design and fabrication of an adhesive patch for myocardial repair" Toronto General Hospital Research Day, Toronto, Ontario, Canada. October 11, 2017 (poster)

217. Lai F, **Radisic M**:"Perfusable vascularized tissues for drug testing and modeling inter-organ biological events on a microfluidic plate" Keystone Symposia T3 Hong Kong October 15-19, 2017 (poster)

218. Lai BFL, Davenport Huyer L, Lu RXZ, Drecun S, Zhang B, **Radisic M**: "Perfusable Vascularized Organoids for Drug Testing and Modeling Inter-organ Biological Events on Microfluidic Plates" Keystone Symposium– Regenerative Biology and Applications: Cell Differentiation, Tissue Organization, and Biomedical Engineering (T3), University of Hong Kong, Hong Kong, China October 15-19, 2017 (oral and poster)

219. Montgomery M, **Radisic M:** " Flexible Shape-memory Scaffold for Minimally Invasive Delivery of Functional Tissues" Biomedical Engineering Society Annual Meeting, Phoenix , Arizona, USA October 10-14, 2017 (oral)

220. Korolj A, Laschinger C, James C, Hu E, Willette R, Velinkonja C, Smith N, Ahadian S, **Radisic M**, Zhang B "Microcurvature promotes differentiation of kidney podocytes" Biomedical Engineering Society Conf for Cellular and Biomolecular Engineering, Florida Keys, FL, USA. January 2-6, 2018 (oral) (Recipient of Graduate Shooting Star Award)

221. Bannerman D, Montgomery M, Lu R, Velikonja C, Civitarese R, Davenport Huyer L, **Radisic M**. "A novel adhesive biomaterial for cardiac patch technology". Chemical Engineering and Applied Chemistry Exhibition, University of Toronto, Toronto, Ontario, Mar. 23, 2018 (poster)

222. Mohammadi MH, Savoji H, Kim L, Ahadian S, Rafatian N, Foroughi S, Ebrahimi Warkiani M, **Radisic M**. "Label-Free, High-Throughput Purification of Cardiomyocytes Using Spiral Microfluidic Separation". Canadian Biomaterials Society, University of Victoria, Victoria, British Colombia, May 17th, 2018 (poster)

223. Mandla S, Davenport-Huyer L, **Radisic M**. "Peptide modifies hydrogel for wound healing applications". Ontario Organ on a Chip Conference, University of Toronto, Toronto, Ontario, May 24, 2018 (poster)

224. Mohammadi MH, Savoji H, Kim L, Ahadian S, Rafatian N, Foroughi S, Ebrahimi Warkiani M, **Radisic M**. "Label-Free, High-Throughput Purification of Cardiomyocytes Using Spiral Microfluidic Separation" Ontario on a Chip and TOeP Symposium, Toronto, Ontario, May 24th, 2018 (poster)

225. Davenport Huyer L, Yee B, Montgomery M, Euler C, Nemr K, Mahadevan R, **Radisic M**. "Biomimetic polyester materials with cell functionality for immunological and antibacterial applications". Ontario on a Chip, University of Toronto, Toronto, Ontario, May 24, 2018 (Poster)

226. Lai BFL, Davenport Huyer L, Lu RXZ, Drecun S, **Radisic M***, Zhang B*. "Perfusable vascularized tissues for drug testing and modeling inter-organ biological events on a microfluidic plate". 2018 Joint OOAC-TOeP Symposium, University of Toronto, Toronto, Ontario, May 24th to 25th, 2018 (poster)

227. Bannerman D, Montgomery M, Davenport Huyer L, Velikonja C, **Radisic M**. "A photocrosslinkable adhesive polymer for cardiac patch technology". 2018 Joint Ontario-on-a-Chip and TOeP Symposium, University of Toronto, Toronto, Ontario, May 24-25, 2018 (poster)

228. Korolj A, Laschinger C, James C, Hu E, Velikonja C, Gu I, Willette R, Smith N, Ahadian S, **Radisic M**, Zhang B. "Biomimetic curvature in cell culture platform improves podocyte differentiation in vitro". Joint TOeP and Ontario-on-a-Chip Conference, Toronto, Canada, May 25, 2018 (oral)

229. Lai BFL, Davenport Huyer L, Lu RXZ, Drecun S, **Radisic M***, Zhang B*. "Perfusable vascularized tissues for drug testing events on a microfluidic plate". 2018 Joint OOAC-TOeP Symposium, University of Toronto, Toronto, Ontario, May 24th to 25th, 2018 (poster)

230. Savoji H, Davenport Huyer L, Mohammadi MH, Lai BF, **Radisic M**. "3D Printing of Microvasculatures", 34th Annual Meeting of Canadian Biomaterials Society, Victoria, Canada, May 2018 (Poster)

231. Korolj A, Laschinger C, James C, Hu E, Velikonja C, Gu I, Willette R, Smith N, Ahadian S, **Radisic M**, Zhang B. "Model system with biomimetic topography promotes podocyte differentiation". International Podocyte Conference, Montreal, Canada, May 31, 2018 (poster)

232. Mohammadi MH, Savoji H, **Radisic M**. "Development of Functional Heart Ventricle Using Human Induced Pluripotent Stem Cell Derived Cardiomyocytes". 14th Conference on Stem Cell Biology and Technology, Tehran, Iran, Aug. 29th, 2018 (Oral)

233. Lu RXZ , Benge T, Lai BFL, Huyer LD, **Radisic M.** "An engineering perfusable platform for recapitulating in vivo nanoparticle translocation". TERMIS, Kyoto, Japan, Sept. 4, 2018 (poster)

234. Lai BFL, Davenport Huyer L, Lu RXZ, Drecun S, **Radisic M***, Zhang B*. "Perfusable vascularized tissues for drug testing and modeling inter-organ biological events on a microfluidic plate". 5th TERMIS World Congress, Kyoto International Conference Center, Kyoto, Japan, Sept. 4th to 7th, 2018 (poster)

235. Wang E, Kuzmanov U, Zhao Y, Rafatian N, Gramolini A, Emili A, Backx P, **Radisic M**. "Combined strategy of human induced pluripotent stem cells, organ-on-a-chip engineering and precision proteomics analysis for cardiac disease study". 2018 TERMIS World Congress, Kyoto, Japan. Sept. 6, 2018 (poster)

236. Mandla S, Sparks H, Pope H, Hee O, Tarraf S, di Martino E, **Radisic M**, Biernaskie J, Scott M. "Peptide modified hydrogels to enhance healing in an equine cutaneous wound model" Calgary international equine symposium, University of Calgary, Calgary, Alberta, September 7, 2018 (poster)

237. Korolj A, Laschinger C, James C, Hu E, Velikonja C, Gu I, Willette R, Smith N, Ahadian S, **Radisic M**, Zhang B. "Biomimetic curvature in cell culture platform improves podocyte differentiation in vitro". TERMIS International Symposium, Kyoto, Japan, Sep. 7, 2018 (oral)

238. Bannerman D, Davenport Huyer L, Montgomery M, Zhao N, **Radisic M**. "A novel adhesive biomaterial for cardiac patch technology". Biomedical Engineering Society Annual Meeting, Atlanta, Georgia, Oct. 17-20, 2018 (poster)

239. Davenport Huyer L, Yee B, Montgomery M, Euler C, Nemr K, Mahadevan R, Radisic M. "Biomimetic polyester materials with cell functionality for immunological and antibacterial applications". 68th Canadian Chemical Engineering Conference, Toronto, Ontario, Oct. 29, 2018 (Oral)

240. Korolj A, Laschinger C, James C, Hu E, Velikonja C, Gu I, Willette R, Smith N, Ahadian S, **Radisic M**, Zhang B. "Biomimetic curvature in cell culture platform improves podocyte differentiation in vitro". Canadian Society for Chemical Engineering Conference, Toronto, Canada, Oct. 28, 2018 (oral and poster)

241. Bannerman D, Davenport Huyer L, Montgomery M, Zhao N, **Radisic M**. "A photocrosslinkable adhesive polymer for cardiac patch technology". Canadian Chemical engineering Conference, Toronto, Ontario, Oct. 28-31, 2018 (podium presentation)

242. Pascual-Gil S, Radisic M, Epelman S. "Heart-on-a-Chip: understanding the role of tissure resident cardiac macrophages". Global Fibrosis Network seminar, Toronto, Ontario, Feb. 6th, 2020 (podium presentation).

243. Wagner K, Liu B, Vunjak-Novakovic G, **Radisic M**. "Can your ex(osomes) mend your broken heart?". Regenerative Medicine Symposium, University of Toronto, Toronto, Ontario, Apr. 11, 2019 (oral presentation)

244. Lu, R, Lai, B, Davenport Huyer, L, **Radisic, M**. "Heart-on-a-chip platform for evaluation of particle induced toxicity". Ontario-on-a-chip Conference, May 16-17, 2019 (Poster presentation)

245. Qinghua W, **Radisic M**. "3D Printing of Nanocomposite Microwires for Heart-on-a-Chip". OOAC Symposium, Toronto, Ontario, May. 16-17, 2019 (podium presentation)

246. Davenport Huyer, L, Mandla, S, Wang, ., Yee, B, Lin, S.Y, Bannerman, D, Montgomery, M, Euler, C, Nemr, K, Mahadevan, R, Epelman, S, **Radisic, M**. "Smart polyester biomaterial design incorporating biomimetic antibacterial and immunomodulatory cell functionality". Ontario-on-a-chip symposium, Toronto, Ontario, May 16-17, 2019. (poster presentation)

247. Wang EY, Rafatian N, Zhao Y, Lai B, Lu R, Davenport Huyer L, and **Radisic M**. "Biowire fibrosis-on-a-chip: an engineered platform for modelling fibrosis-myocardium integration" 2019 Ontario-on-a-Chip symposium, Toronto, Ontario. May 16-17, 2019 (poster)

248. Korolj A, Laschinger C, James C, Hu E, Velikonja C, Gu I, Willette R, Smith N, Ahadian S, **Radisic M**, Zhang B. "Curvature promotes podocyte differentiation in a biomimetic cell culture platform". Joint TOeP and Ontario-on-a-Chip Conference, Toronto, Canada, May 16-17, 2019 (podium presentation).

249. Davenport Huyer, L, Mandla, S, Wang, Y, Yee, B, Lin, S.Y, Bannerman, D, Montgomery, M, Euler, C, Nemr, K, Mahadevan, R, Epelman, S, **Radisic, M**. "Smart polyester biomaterial design incorporating biomimetic antibacterial and immunomodulatory cell functionality". Engineering Biology for Medicine Conference Nature Conference, Durham, North Carolina, May 19-22, 2019. (poster presentation)

250. Pascual-Gil S, Bannerman D, Epelman S, **Radisic M.** "Myocardial regeneration using biomaterials that target survival and expansion of resident cardiac macrophages". SEEDing Innovation, Annual XSeed and EMHSeed Poster Session, University of Toronto, Toronto, Ontario, June 27, 2019 (poster presentation)

251. Davenport Huyer, L, **Radisic, M**. "Smart biomimetic material strategies for functional tissue engineering and regenerative medicine". Biomimetics in Bioengineering Nature Conference, Brisbane, Australia, Aug. 4-6, 2019. (podium presentation)

252. Davenport Huyer, L, Mandla, S, Wang, Yee, B, Lin, S.Y, Bannerman, D, Montgomery, M, Euler, C, Nemr, K, Mahadevan, R, Epelman, S, **Radisic, M**. "Functional polyester materials that harness antibacterial and immunoregulatory power of innate immunity". Biomimetics in Bioengineering Nature Conference, Brisbane, Australia, Aug. 4-6, 2019. (poster presentation)

253. Korolj A, Laschinger C, James C, Hu E, Velikonja C, Gu I, Willette R, Smith N, Ahadian S, **Radisic M**, Zhang B. "Biomimetic curvatures supports in vitro podocyte differentiation". Nature Research Conference on Biomimetics in Bioengineering, Brisbane, Australia, Aug. 7-10, 2019 (podium presentation)

254. Davenport Huyer, L, Mandla, S, Wang, Y, Yee, B, Lin, S.Y. Bannerman, D, Montgomery, M, Euler, C, Nemr, K, Mahadevan, R, Epelman, S, **Radisic, M**. "Functional polyester materials that harness an anti-inflammatory and infection fighting powerhouse of innate immunity". TERMIS-AM Conference, Orlando, Florida, Dec. 2-5, 2019 (podium presentation)

255. Pascual-Gil S, **Radisic M**, Epelman S. "Heart-on-a-Chip: understanding the role of tissue resident cardiac macrophages". Global Fibrosis Network seminar, Toronto, Ontario, Feb. 6th, 2020 (podium presentation).

256. Qinghua W, Yimu Z, Benjamin L, Teodor V, **Radisic M**. "The BioWire" : An Heart-On-Chip Platform for High-throughput Pharmacology". NRC TECHX conference, Ottawa, Ontario, Feb. 25-26, 2020 (podium presentation)

257. Xie R, Korolj A,Liu C, Song X, Lu RXZ, Zhang B, Ramachandran A, Liang Q, Radisic M. "h-FIBER: Microfluidic topographical hollow fiber for studies of glomerular filtration barrier". CRAFT Virtual Symposium, Nov. 9-10, 2020 (poster presentation)

258. Wagner K, Radisic M. "Investigating the Role and Mechanisms of Extracellular Vesicles in Human Cardiac Tissue-on-a-Chip Models". CRAFT Virtual Symposium, Ontario, Nov. 10, 2020 (poster presentation)

259. Wu Q, Veres T, Radisic M, "High-throughput heart-on-chip platform for pharmacology," CRAFT Virtual Symposium, Toronto, Ontario, Nov. 9, 2020 (poster)

260. Wagner K, Radisic M. "Studying cardiac side effects of SARS-CoV-2 infection and screening extracellular vesicle therapeutics in vitro." CRAFT Virtual Symposium, Toronto, Ontario, Aug. 26, 2021 (oral presentation)

261. Xie R, Korolj A, Liu C, Song X, Lu RXZ, Zhang B, Ramachandran A, Liang Q, Radisic M, "h-FIBER: Microfluidic topographical hollow fiber for studies of glomerular filtration barrier," Workshop on Multicellular Engineered Living Systems (M-CELS), virtual, Jun 1-3, 2021 (poster)

262. Wu Q, Rafatian N, Wagner K, Radisic M, "Heart-on-chip models for SARS-CoV-2 induced myocarditis and the effect of stem cell-derived exosome-based therapeutics," CRAFT Virtual Symposium, Aug 2021, Toronto, Canada (Oral presentation)

263. Liu C, Campbell SB, Radisic M, "Extrusion of perfusable elastomeric tubules for high throughput organ-on-a-chip device fabrication," CRAFT Symposium, virtual, Aug 25–27, 2021 (poster)

264. Wang E.Y., Kuzmanov U., Smith J., Dou W., Rafatian N., Wu Q., Lai B.F.L., Lu X.Z., Yazbeck J., Sun Y., Gramolini A., and Radisic M. An Engineered Model for Compound Screening in Progressive Cardiomyopathy. CRAFT 2021 Virtual Symposium, Toronto, Ontario; August 25, 2021 (poster)

265. Liu C, Campbell SB, Radisic M, "3D printing of bioelastomers for vascular tube fabrication in organ-on-a-chip devices," TGHRI Research Day, virtual, Nov 9, 2021 (poster)

266. Korolj A, Aggarwal P, Cui T, Song S, Shamaei L, Rafatian N, Radisic R, Rodriguez-Ramirez S, Liu C, Li M, Wagner K, Clotet-Freixas S, Sadrzadeh M, Filleter T, Konvalinka A, Broeckel U, Radisic M. "Multiscale fractal shape cues support hierarchical assembly and maturation of podocytes via curvature-induced extracellular matrix patterning," TERMIS World Congress, Online, 15-17 November 2021 (poster)

267. Zhao Y., Cheung K, Vunjak-Novakovic G, Radisic M. "Engineering vascularized heart-on-a-chip" TERMIS-AM 2023:Tissue Engineering Strategies for Human Health and Longevity April 11-14 2022, Boston, USA. Oral presentation with Travel awards and SYIS Scientific Excellence Award

268. Lu, R. X. Z, Rafatian, N., Radisic, M., "Vasculature-on-a-chip platform with innate immunity enables identification of angiopoietin-1 derived peptide as a therapeutic for SARS-CoV-2 induced inflammation", European Molecular Biology Organization Conference, in person, in person, May 9-11, 2022 (oral)

269. Zhao Y, Godier-Furnemont A, Bax NAM, Bouten CVC, Brown LM, Fine B, Vunjak-Novakovic G. "*Changes in extracellular matrix in failing human non-ischemic and ischemic hearts with mechanical unloading*" EMBO Workshop: Building networks: engineering in vascular biology May 9 – 11, 2022 Barcelona, Spain, **Oral presentation with Travel Awards**

270. **Liu C**, Campbell SB, Li J, Bannerman D, Pascual-Gil S, Kieda J, Herman PR, Radisic M: "High throughput 3D printing of bioelastomers for vascular microtube fabrication in organ-on-a-chip devices," *EMBO Workshop: Building networks: Engineering in vascular biology*, Barcelona, Spain, May 9–11, 2022 (poster).

271. Wu Q, Rafatian N, Wagner K, Blamer J, Ulrich B, Radisic M, "Heart-on-chip models for -CoV-2 induced myocarditis and the effect of stem cell-derived exosome-based therapeutics," EMBO Workshop: Building networks: engineering in vascular biology, Barcelona, Spain, May 9-11, 2022 (Poster).

272. Kieda, J., Landau, S., Okhovatian, S., Zhao, Y, Lu, R., Radisic M. Cell-driven elastomeric particle jamming engineering of stable 3D- printed structures. EMBL Workshop: Building networks: engineering in vascular biology Conference, May 9-11, 2022 (Barcelona, Spain). (Poster presentation).

273. Lu, R. X. Z, Rafatian, N., Radisic, M., "Vasculature-on-a-chip platform with innate immunity enables identification of angiopoietin-1 derived peptide as a therapeutic for SARS-CoV-2 induced inflammation", Nanotechnology in Medicine III Conference, in person, May 15-20, 2022 (oral, **Young Scientist Award**)

274. Zhao Y, Godier-Furnemont A, Bax NAM, Bouten CVC, Brown LM, Fine B, Vunjak-Novakovic G. "Changes in the extracellular matrix in failing human non-ischemic and ischemic hearts with mechanical unloading" Nanotechnology in Medicine III: Enabling Next Generation Therapies, May 15-20, 2022, Grand Hotel San Michele, Calabria, Italy, **Invited talk.**

275. Wu Q, Rafatian N, Wagner K, Blamer J, Ulrich B, Radisic M, "Heart-on-a-chip Platform to Model Cardiac Sars-cov-2 Pathogenesis and Therapeutic Screening," ECI: Nanotechnology in Medicine III Conference, Calabria, Italy, May 15-20, 2022 (Oral presentation).

276. Xie R, Korolj A, **Liu C**, Song X, Lu RXZ, Zhang B, Ramachandran A, Liang Q, Radisic M: "Microfluidic spinning of topographical hollow fibers for the development of a 3D functional glomerulus in vitro," *ECI Conference: Nanotechnology in Medicine III: Enabling Next Generation Therapies*, Calabria, Italy, May 15–20, 2022 (oral).

277. Kieda, J., Landau, S., Okhovatian, S., Zhao, Y, Lu, R., Radisic M. Cell-driven elastomeric particle jamming engineering of stable 3D- printed structures. Nanotechnology in Medicine, 2022 (Calabria, Italy) May 15–20, 2022 (Oral presentation).

278. Wagner K, Wu Q, Rafatian N, Radisic M. "Studying Extracellular Vesicle Therapeutics In Cardiac Tissue-On-A-Chip Models." Canadian Biomaterials Society Conference, Banff, Alberta, May 26, 2022 (poster presentation).

279. Liu C, Campbell SB, Li J, Bannerman D, Pascual-Gil S, Kieda J, Herman PR, Radisic M: "High throughput 3D printing of bioelastomers for vascular microtube fabrication in organ-on-a-chip devices," *2022 Toronto Biomedical Engineering Conference*, Toronto, ON, June 15, 2022 (poster).

280. Wagner K, Wu Q, Rafatian N, Radisic M. "Studying Extracellular Vesicle Therapeutics In Cardiac -On-A-Chip Models." TERMIS Americas Annual Conference & Exhibition, Toronto, Ontario, July 10, 2022 (poster presentation).

281. Wu Q, Rafatian N, Wagner K, Blamer J, Ulrich B, Radisic M, "Heart-on-a-chip Model Of SARS-CoV-2 Cardiac Involvement and Treatment with Induced Pluripotent Stem Cell Derived Extracellular Vesicles," TERMIS, Toronto, July 10-13, 2022 (Oral presentation).

282. S Landau, J Kieda, S Okhovatian , K Ramsay, C Liu, M Radisic, "Incorporating elastomeric particles into bioinks to enhance 3D-printed tissues stability", TERMIS-AM July 10-13, 2022, Toronto (poster)

283. Okhovatian, S, Mohammadi MH, Savoji H, Campbell SB, Wu J, Pascual-Gil S, Bannerman D, Rafatian N, Li RK,Radisic M "Toward hierarchical assembly of aligned cell sheets into a conical cardiac ventricle using microfabricated elastomers" TERMIS Americas, July 10-13, 2022 (poster)

284. Lu, R. X. Z, Rafatian, N., Radisic, M., "Vasculature-on-a-chip platform with innate immunity enables identification of angiopoietin-1 derived peptide as a therapeutic for SARS-CoV-2 induced inflammation", Tissue Engineering and Regenerative Medicine International Society, in person, in person, July 10-13,2022 (oral)

285. Zhao Y., Vunjak-Novakovic G, Radisic M. "Engineering vascularized heart-on-a-chip" TERMIS-AM Synergizing to new heights in health. July 10-13 2022, Toronto, Canada. **Oral presentation and received a manuscript invitation to Advance Science, manuscript in preparation.**

286. Liu C, Campbell SB, Li J, Bannerman D, Pascual-Gil S, Kieda J, Herman PR, Radisic M: "High throughput 3D printing of bioelastomers for vascular microtube fabrication in organ-on-a-chip devices," *2022 TERMIS-AM*, Toronto, ON, July 10–13, 2022 (poster).

287. Zhao Y., Cheung K, Vunjak-Novakovic G, Radisic M. "Organ-on-a-chip with microvascular plexus for drug testing and disease modelling" Till & McCullouch Meeting, Stem Cell Network, Vancouver, Canada, Oct 2-5, 2022. Poster presentation.

288. Liu C, Campbell SB, Li J, Bannerman D, Pascual-Gil S, Kieda J, Wu Q, Herman PR, Radisic M: "High throughput printing of tubular microstructures from elastomeric polymers for organ-on-a-chip applications," *2022 MicroTAS*, virtual, October 23–27, 2022 (oral).

289. Lu, R. X. Z, Radisic, M., "Toward the development of multi-scale complexity of vascular network within the heart-on-a-chip system for disease modeling and drug screening", PRiME Symposium, in person, Oct 25, 2022 (poster)

290. S Landau, Y Zhao, S Okhovatian, G Kent R Lu, K Wagner, H Hamidzada, S Epelman, G Keller, M Radisic, "Organ-on-a-chip with microvascular plexus for drug testing and disease modelling", Ilanit, Eilat February 20-23, 2023 (oral presentation).

291. Liu C, Morton K, Soon K, Korolj A, Landau S, Wagner K, Shen X, Veres T, Radisic M: "High throughput fabrication of fractal topographical substrates for high fidelity culture of kidney podocytes," 2023 *CRAFT Symposium*, Toronto, ON, February 22–23, 2023 (poster; awarded second prize).

292. Lu, R. X. Z, Rafatian, N., Radisic, M., "Use of vascularized heart-on-a-chip platform to identify HUVEC-EVs as an anti-inflammatory treatment for SARS-CoV-2 acute myocarditis", CRAFT Symposium, in-person, Feb 22-23, 2023 (oral, oral presentation winner).

293. Okhovatian, S, Landau S, Mohammadi MH, Radisic M "Engineering of physiological structure and function of left ventricle *in vitro*" CRAFT Symposium, February 22-23, 2023 (poster).

294. Liu C, Morton K, Soon K, Landau S, Wagner K, Aggarwal P, Bannerman D, Pascual-Gil S, Rafatian N, Okhovatian S, Shen X, Veres T, Radisic M: "High throughput fabrication of biomimetic fractal topographical substrates for high fidelity culture of kidney podocytes," *2023 TERMIS-AM*, Boston, MA, April 11–14, 2023 (poster).

295. Liu C, Morton K, Soon K, Landau S, Wagner K, Aggarwal P, Bannerman D, Pascual-Gil S, Rafatian N, Okhovatian S, Shen X, Veres T, Radisic M: "High throughput fabrication of biomimetic fractal topographical substrates for high fidelity culture of kidney podocytes," *2023 TERMIS-AM*, Boston, MA, April 11–14, 2023 (oral – rapid fire).

296. Wagner K, Bannerman D, Wu Q, Pascual-Gil S, Radisic M. "Investigating Extracellular Vesicle Therapeutics in Cardiac Tissue-on-a-Chip Models of Ischemia-Reperfusion Injury." Society for Biomaterials Annual Meeting, San Diego, California, April 19, 2023 (poster presentation).

297. Zhao Y., Cheung K, Vunjak-Novakovic G, Radisic M. "Engineering heart-on-a-chip with vascularized plexus " **Annual meeting for Society of Biomaterials 2023**, April 19-22, 2023 San Diego, USA. **Oral presentation**

298. Bannerman, D, Pascual-Gil S, Wu Q, Wagner KT, Okhovatian S, Radisic M. "Epicardial-coated cardiac tissue engineered constructs for modelling of ischemia reperfusion injury." Society for Biomaterial Annual Meeting, San Diego, April 19-22, 2023 (poster).

299. S Landau, J Kieda, S Okhovatian , K Ramsay, C Liu, M Radisic, "Incorporating elastomeric particles into bioinks to enhance 3D-printed tissues stability", SFB April 19-22, 2023, San Diego (poster and oral presentation).

300. Okhovatian, S, Landau S, Mohammadi MH, Savoji H, Radisic M "Engineering of architectural complexities of conical cardiac ventricle using polyesters" Society for Biomaterials (SFB), April 19-22 2023 (oral).

301. Kieda, J., Ramsay, K., Jiang, R., Radisic, M., Elastomeric Microfluidic POMaC Particle Jamming for the Engineering of Stable Self-Healing Bioink. Craft Symposium 2023. (Poster presentation).

302. Kieda, J., Landau, S., Okhovatian, S., Zhao, Y, Lu, R., Radisic M. Incorporating Elastomeric Particles into Bioinks to Enhance 3D-printed Tissue Stability. Craft Symposium 2023. (Poster presentation).

303. Lu, R. X. Z, Rafatian, N., Radisic, M., "Use of vascularized heart-on-a-chip platform to identify "HUVEC-EVs as an anti-inflammatory treatment for SARS-CoV-2 acute myocarditis", Tissue Engineering and Regenerative Medicine International Society, in person, May 11-14, 2023 (oral/poster).

3.2 INVITED PRESENTATIONS

1. "Biomimetic Approach to Cardiac Tissue Engineering" McMaster University, Feb 16, 2004

2. "Biomimetic requirements for cardiac tissue Engineering" Tissue Engineering the Next Generation, NIH
    a. Sponsored Workshop May 02-04 2005, Cambridge, MA

3. "Biomimetic Approach to cardiac Tissue Engineering" Department of Pharmacology, SUNY Upstate Medical University, Dec 01, 2005

4. "Biomimetic Approach to cardiac Tissue Engineering" Toronto General Hospital (Laboratory of Dr. R-K. Li) Dec 09, 2005

5. "My experience as an assistant professor" THE500 (Dr. Kay, instructor), University of Toronto, guest lecture, March 21, 2006

6. "Biomimetic Approach to Cardiac Tissue Engineering" ARTEC Technology Exchange, Jan25, 2006, Toronto, ON

7. "Biomimetic Approach to Cardiac Tissue Engineering" Annual Cardiovascular Scientific Day, Heart &
    a. Stroke/Richard Lewar Centre of Excellence in Cardiovascular Research, University of Toronto May 11, 2006

8. " Micro-scale systems in cardiac tissue engineering" National Research Council (NRC), Industrial Materials Institute (**IMI**), Boucherville, QC, Canada (Laboratory of Dr. T. Veres), Sept 28, 2006

9. "Size and Adhesion Based Microfluidic Enrichment of Cardiac Cell Populations" 90th Canadian Chemistry Conference and Exhibition (**CSC**), Winnipeg, MB, May 27, 2007

10. "Engineering Microenvironments for Cardiovascular Regeneration" Heart & Stroke/Richard Lewar Centre of Excellence in Cardiovascular Research, University of Toronto, May 10, 2007

11. "Microfluidic Enrichment of Heart Cell Subpopulations" Ontario-on-a-Chip, University of Toronto, Nov 01, 2007

12. "Ex-vivo construction of myocardial tissue: Bioreactor Cultivation" The 4th International Conference on Cell Therapy for Cardiovascular Diseases, New York, NY, Jan 17, 2008

13. "Engineering Microenvironments for Cardiovascular Regeneration" Department of Chemical and Biological Engineering, SUNY at Buffalo, Buffalo, NY, March 19, 2008,

14. Discussion Leader, “Engineering Cell Responses to ECM”, Gordon Research Conference Signal Transduction By Engineered Extracellular Matrices, July 6-11, 2008, Bates College, Lewiston, ME

15. Panel of Women in Technology, 2008 Emerging Technologies Conference, M.I.T., Cambridge, MA (declined due to maternity leave)

16. “Tissue Engineering of a Living Cardiac Patch”, VIPSI2009 and World Rector Conference, April 02-04 2009, Belgrade, Serbia

17. “Cardiac Tissue Engineering”, Design of Medical Devices Conference, April 14-16, 2009 Minneapolis, MN

18. “Cardiac Tissue Engineering”, The Royal Canadian Institute (RCI) for the Advancement of Science, Table Host for “The RCI Science Dinner of the Year”, April 23, 2009

19. “Biomaterials and Bioreactors for Stem Cell Differentiation” Toronto Stem Cell Rounds, Toronto, ON May 04, 2009

20. “Tissue Engineering” REMEDI Symposium, Toronto General Research Institute, June 12, 2009

21. “From Cells to Tissue Engineering: Re-making of the Heart" Institute of Medical Science Summer Program, University of Toronto, June 24, 2009

22. “Immobilized Growth Factors for Vascularization of Engineered Tissues” Symposium in Honor of Dr. Michael Sefton’s 60th Birthday, University of Toronto, October 16, 2009

23. “Women in Research and Teaching” National Conference on Women in Engineering 2009: Designing the World to Come, Toronto, Nov 28, 2009

24. “Engineering Microenvironments for Cardiovascular Regeneration” Symposium on Advanced Research, Jan 12, 2010

25. “Engineered Heart Tissue for Drug Development” Presentation to Merrimack Pharma on Feb 12, 2009

26. “Innovation in Tissue Engineering and Regenerative Medicine”, The International Diaspora Youth Leadership Conference, March 22, 2010, Toronto, ON

27. “Cardiac tissue engineering”, Laurence Becker Symposium on Advances in Laboratory Medicine- Frontiers in Tissue Engineering: Paediatric Regenerative Medicine, The Hospital for Sick Children, Toronto, June 03, 2010

28. “Engineered Heart Tissue”, 2010 AHA Scientific Sessions, November 15, Chicago, IL

29. “Student Meet the Mentor Lunch, 2010 TERMIS-NA Meeting, Orlando, FL

30. “Engineered Heart Tissue” presentation to External Reviewers of the Department of Chemical Engineering and Applied Chemistry, Dec 02, 2010

31. “Engineering Microenvironments for Cardiovascular Regeneration”, 10th Congress of the Japanese Society for Regenerative Medicine, Tokyo, Japan, March 01, 2011

32. "Engineering Microenvironments for Cardiovascular Regeneration", Tokyo Women's Medical University, Tokyo, Japan, March 03, 2011

33. "Healthy and diseased heart tissue on a chip", School of Engineering and Applied Sciences, Harvard University, Boston, MA, April 27th, 2011

34. "Engineering Microenvironments for Cardiovascular Regeneration", Biochemical and molecular engineering, XVII, June 26-30, 2011 Seattle, WA

35. "Tissue Engineering and Biomaterials for Cardiovascular Regeneration", Personalized Medicine in the Genomics Era, Oct 17th, 2011 Toronto, ON

36. Discussant for "A Phase II Dose-Escalation Study of Allogeneic Mesenchymal Precursor Cells in Patients With Ischemic and Nonischemic Heart Failure" by Perin et al American Heart Association Scientific Sessions, Nov 14, 2011 Orlando, Florida

37. "Collagen patches for cardiac repair", California Institute for Regenerative Medicine Tissue Engineering
    a. Workshop (closed, by invitation), Jan 11-14, 2012 San Francisco, CA

38. "Healthy and Diseased Heart Tissue on a Chip", CCRM-Roche Meeting, March 12, 2012, Toronto, ON

39. "Healthy and Diseased Heart Tissue on a Chip", Chemical Engineering Research Consultants Limited, March 09, 2012, Toronto, ON

40. "Controlled delivery of Thymosin β4 for tissue engineering and cardiac regenerative medicine", Third International Symposium on Thymosins in Health and Disease, March 15, 2012, Washington, DC

41. "Engineering microenvironments for cardiovascular regeneration", Department of Chemistry, York University, April 19, 2012

42. "In vitro models of heart disease and regeneration" Experimental Biology 2012, America Association of Anatomists, April 25th, 2012 San Diego, CA

43. "Engineering microenvironments for cardiovascular regeneration", Department of Bioengineering, University of California-San Diego, April 19, 2012

44. "Healthy and Diseased Heart Tissue on a Chip", Functional Imaging in Regenerative Medicine, NIST, Gaithersrburg, MD, May 31st, 2012

45. "Healthy and Diseased Heart Tissue on a Chip", Alumni Spring Reunion Engineering Lectures, University of Toronto, June 02nd, 2012

46. "Engineering Microenvironments for Cardiovascular Regeneration" TMF, University of Belgrade, June 29th, 2012

47. "Engineering Microenvironments for Cardiovascular Regeneration" NSERC CREATE-IDEM, McMaster University, Hamilton, ON, July 10th, 2012

48. "Bioreactors for Development of Healthy and Diseased Myocardial Tissue Models", TERMIS World Congress, Vienna, Austria, September 08th, 2012

49. "Healthy and Diseased Heart Tissue on a Chip", IBBME Seminar Series, University of Toronto, Sept 27th, 2012

50. "Bioreactors for Development of Healthy and Diseased Myocardial Tissue Models", NIH Tissue Engineering Resource Center Site Visit, Tufts University, Boston, MA, November 08, 2012

51. "Tissue Engineering", Health Canada, Ottawa, ON, November 30th, 2012

52. "Novel Approach to Engineered Microvascular Networks", Conference on Cell Therapy for Cardiovascular Disease, New York, NY, Jan 24th, 2013

53. "Healthy and diseased heart tissue on a chip", Beyond Borders: Lyon Sachs Symposium, Technion, Haifa, IL May 08th, 2013

54. "Biological Wire: A New Platform for Maturation of Human Pluripotent Stem Cell Derived Cardiomyocytes", MFI Symposium, Ottawa Heart Institute, Ottawa, ON, June 28th, 2013

55. "Engineering microenvironments for cardiovascular regeneration", Emory University/Georgia Institute of Technology, July 17th, 2013

56. "3D Cell Culture and Bioreactors", International Summer School, Piran/Vipava, Slovenia, August 26th, 2013

57. "Tissue engineering for cardiac applications", International Summer School, Piran/Vipava, Slovenia, August 28th, 2013

58. "Engineering microenvironments for cardiac applications", Gladstone Institute of Cardiovascular Disease, San Francisco, CA, October 14th, 2013

59. "Healthy and diseased heart tissue on a chip", University of Pennsylvania Bioengineering's 40th Anniversary Symposium, Philadelphia, PA, November 21st, 2013

60. Impactful research panel, Simcoe Hall - Governing Council Chamber, November 27th, 2013

61. "Engineering microenvironments for cardiovascular regeneration", Excellence in Interventional Cardiology 2013, Whistler, BC, December 6th, 2013

62. Invited panelist, WISE Dinner with Industry, Queens University, January 22nd, 2014

63. "Engineering microenvironments for cardiovascular regeneration ", 4th International conference on Stem Cell Engineering (ICSCE) organized by SBE and ISSCR, Coronado, CA, March 16-17, 2014 (canceled due to overlap with teaching)

64. "Engineering microenvironments for cardiovascular regeneration", Department of Bioengineering, University of Illinois Urbana-Champaign, February 06th, 2014

65. "Engineering microenvironments for cardiovascular regeneration", School of Applied Science and Engineering, Topics in Bioengineering, Harvard University, Cambridge, MA April 15th, 2014

66. "Engineering microenvironments for cardiovascular regeneration", Tissue Engineering and regenerative Medicine (TIME) Symposium, Temple University, Philadelphia, PA, April 30th, 2014

67. "Engineering microenvironments for cardiovascular regeneration", 4th Lugano Stem Cell Meeting, Lugano, Switzerland, June 23rd, 2014

68. " Perfusable microvessel networks and perfusion platforms for engineered tissues", 11th International Symposium on Stem Cell Therapy and Cardiovascular Innovations, Madrid, Spain, May 29th, 2014

69. "Cardiac tissue engineering and stem cells" Microfluidics Professional Course, University of Toronto May 26th, 2014

70. "High fidelity cardiac tissue models" CCRM Course, The Business of Regenerative Medicine: New Therapies, New Models Toronto, ON, July 15th, 2014

71. "Tissue engineering and cardiac model systems", Connaught Summer Institute, University of Toronto, August 20th, 2014

72. "Perfusable microvessel networks and perfusion platforms for engineered tissues", Ontario-Germany Lab-on-a-chip Workshop, Toronto, Canada, October 08th, 2014

73. "Biowire plates for cell maturation and screening of cardiac contractility", GlaxoSmithKilne, Inc King of Prussia, PA October 02nd, 2014

74. "Human cardiac biowires", Eli Lilly Corporate Headquarters, Indianapolis, IN, November 18th, 2014

75. "Human cardiac biowires and injectable tissues", Micro- and Nano-technology in Medicine, IEEE EMBS, December 09th, Oahu, HI 2014

76. "Human cardiac biowires and injectable tissues", MIREx McMaster University, January 14th, 2015

77. "Human cardiac biowires and injectable tissues", LMP Student Union, University of Toronto, January 17th, 2015

78. "Human cardiac biowires and injectable tissues", Division of Medical Sciences, University of Victoria, January 30th, 2015

79. "Human cardiac biowires and injectable tissues", Department of Biomedical Engineering, Cornell University, Ithaca, NY, March 09th, 2015

80. "Human biowires for in vitro studies of cardiac physiology", Department of Chemical Engineering, McMaster University, Hamilton, ON, March 12th, 2015

81. "Human biowires for in vitro studies of cardiac physiology", University of Toronto in Your Neighbourhood, Toronto, ON, March 26th, 2015

82. "Human biowires and injectable tissues", Joint meeting of the International Symposia on Surface and Interface of Biomaterials, Society for Tissue Engineering and Biomaterials, Sydney, Australia, April 09th, 2015 (**Keynote**)

83. "Human biowires and injectable tissues", Victor Chang Cardiac Research Institute/University of New South Wales, Sydney, Australia, April 10th, 2015

84. "Human biowires for in vitro studies of cardiac physiology ", Regeneron, April 23rd, 2015

85. "Big Idea-Human Biowires for Predictive Cardiac Physiology", American Heart Association Investment Forum, New York, NY, April 22nd, 2015

86. "Contractile mechanics of stem-cell derived cardiomyocytes", PCBC Cardiovascular Tissue Engineering Workshop Agenda, Stanford, May 21st, 2015

87. " Human cardiac biowires and injectable tissues", CARDIOVASCULAR TISSUE ENGINEERING SYMPOSIUM, STANFORD, CA, May 22st, 2015

88. "Human cardiac biowires and injectable tissues" University of Toronto 3D Bioprinting Course, Toronto, Ontario, Canada, June 16th, 2015

89. "Tissue Velcro® For Rapid 3D Assembly of Functional Cardiac Co-cultures", 2015 TERMIS World Congress, Boston, Massachusetts, United States. Sep 10th, 2015

90. "Human cardiac biowires and injectable tissues". Cellular Dynamics iForum. Chicago, Illinois, United States. Sept 14, 2015

91. "Human cardiac biowires and injectable tissues. National Heart Lung Blood Institute (NHLBI) Sixth Symposium on Cardiovascular" Regenerative Medicine. Bethesda, Maryland, United States. Sep 30th, 2015 **(Keynote speaker)**

92. "Human cardiac biowires and injectable tissues". 65th Canadian Chemical Engineering Conference, Oct 06th, 2015 (**Hatch Innovation Award Lecture**)

93. **"**Angiochip: A biodegradable scaffold for organ-on-a-chip engineering and direct surgical anastomosis. North American Vascular Biology Organization Annual Meeting, Vascular Matrix Biology and Bioengineering Workshop, Cape Cod, Massachusetts, October 21st, 2015

94. " Human cardiac biowires and injectable tissues" CCRM Till and McCulloch Meetings, Toronto, Ontario, Canada, Oct 26th, 2015

95. "Hook-In-Tissue™ For Rapid 3D Assembly of Functional Cardiac Co-cultures", Southmedic Site Visit, Toronto, ON, Canada, Dec 12th, 2015

96. "Engineering microenvironments for regenerative medicine" McMaster University BME Symposium. Hamilton, Ontario, Canada, Jan 08th, 2016 (**Keynote lecture**)

97. "Engineering microenvironments for regenerative medicine" Department of Laboratory Medicine and Pathobiology Seminar Series, University of Toronto, Toronto, ON Canada, Jan 11th, 2016

98. "Engineering microenvironments for regenerative medicine", University of Toronto, Department of Chemical Engineering & Applied Chemistry. Toronto, Ontario, Canada, Research Dayz, Jan 18th 2016

99. "Engineering microenvironments for cardiovascular regeneration", Ontario Institute of Regenerative Medicine Seminar Series, Toronto, Ontario, Canada, Feb 03rd, 2016

100. "Engineering biomaterials for regenerative healing", Covalon, Mississauga, ON, Canada Feb 09th, 2016

101. "Biowire platform for cardiac drug screening", Abbvie site visit, Feb 29th, 2016

102. "Engineering and Medical Treatment", Engineering Innovations Forum. Toronto, ON, Canada, March 02nd, 2016 (**Keynote presentation**)

103. "Towards Person-on-a-Plate: Microfabrication and Biodegradable Polymers for High Fidelity Modelling of Human Tissues", 8th Annual Hands-on Workshop in Micro & Nano Bioengineering, McGill University, Montreal, QC, March 03rd, 2016 (**Keynote lecture**)

104. "Engineering Microenvironments for Cardiovascular Regeneration", Stem Cells The Future of Medicine, Student Society for Stem Cell Research, University of Toronto, Toronto, ON, March 12th, 2016

105. "Vascularization Platform for Organ-on-a-Chip Engineering and Direct Surgical Anastomosis" NIH Progenitor Cell Biology Consortium (PCBC) Cardiovascular Tissue Engineering (CVTE) Symposium, the University of Alabama at Birmingham, Birmingham, AL, USA March 28th, 2016

106. " Effective Science Communications Panel", Science Leadership Program, University of Toronto, April 14th, 2016

107. "Bioengineering stem cell-derived models of cardiac function", Ted Rogers Centre for Heart Research 1st Scientific Symposium: Advances in Heart Failure, May 13th, 2016

108. "Heart-on-a-plate for drug discovery and disease modelling", Georg-August-Universität Göttingen, Göttingen, Germany, May 31st, 2016

109. "Platform technology for maturation of human stem cell derived cardiomyocytes and drug discovery", International Society for Stem Cell Research (ISSCR) Annual Meeting, San Francisco, CA, June 25th, 2016

110. "AngioChip Technology for Vascularization and Organ-on-chip Engineering", American Heart Association Basic Cardiovascular Sciences 2016 Scientific Sessions, Phoenix, AZ, July 20th, 2016

111. "Perfusable Vasculature for Organ-on-a-Chip Engineering", Microfluidics Professional Course, University of Toronto, July 12th, 2016

112. "Platform technology for maturation of stem cell derived cardiomyocytes and drug discovery", International Society for Cardiovascular Biology (ISACB) 15th Biennial Meeting, Banff, Alberta September 10th 2016

113. "Towards human-on-a-plate", Frontiers in Translational Research: Ex vivo models of human disease, Toronto, ON, September 16th 2016

114. "Engineered Tissues for Better Health and Longer Life", TEDx Vaughan, September 23rd, 2016

115. "Bioengineering for the failing heart: The next frontier", Pediatric Heart Failure Summit, Toronto, ON, September 26th, 2016

116. "Heart-on-a-Plate for Drug Discovery and Disease Modelling", Annual Meeting of the Biomedical Engineering Society, Minneapolis, MN, October 07th, 2016

117. "Innovations and commercialization for cardiovascular disease – lessons learned panel", The Ori Rotstein Lecture in Translational Research, St. Michael's Hospital, Toronto, ON, October 13th , 2016

118. "Heart-on-a-Plate for Modelling of Cardiac Physiology and Drug Screening", 5th International Conference on Stem Cell Engineering", SBE/AIChE, Toronto, ON, October 24th, 2016

119. "Human Cardiac Biowires As a New Platform for Cell Maturation, Drug Discovery, and Safety Testing", Society of Toxicology Special Meeting on The Use of Cardiomyocytes for the Assessment of the Proarrhythmic Risk, Arlington, VA, October 26th, 2016

120. "Heart-on-a-plate for drug discovery and disease modelling", University of Waterloo, Waterloo, ON, October 27th, 2016

121. "Innovations in tissue engineering", The Annual Claudette McKay-Lassonde Fall Forum, Toronto, ON November 12th, 2016

122. "Academic Start-ups", Lunch-and-Learn, St. Michael's Hospital, Toronto, ON, December 14th, 2016

123. "Towards human-on-a-plate and injectable functional tissues", TARA Biosystems, New York, NY, January 26th, 2017

124. "Bioengineering functional heart tissues for drug discovery and therapy", Ryerson University, Toronto, ON, February 09th, 2017

125. "Bioengineering functional tissues for drug discovery and therapy", International Media Tour, University of Toronto, Toronto, ON, February 27th 2017

126. Guest Discussant on "Regulation", University of Toronto, Toronto, ON, February 28th, 2017

127. "Evaluation of cardiotoxicity using Biowires". Keystone Symposium Engineered Cells and Tissues as Platforms for Discovery and Therapy, Boston, MA, March 11th 2017

128. "AngioChip: vascularization platform for organ-on-a-chip engineering and direct surgical anastomosis", Society of Toxicology Annual Meeting, Baltimore, MD, March 16th, 2017

129. "Stem cells and regenerative medicine", PrO event, University of Toronto, March 29th, 2017

130. "Bioengineering functional tissues for drug discovery and therapy", Bioengineering and Cardiovascular Training Grant Symposium, University of Washington, Seattle, WA, April 04th, 2017

131. "Bioengineering functional tissues for drug discovery and therapy", Libin Research Day, University of Calgary, Calgary, AB, April 06th, 2017

132. "Bioengineering functional tissues for drug discovery and therapy", Department of Chemical and Biological Engineering, University at Buffalo Buffalo, NY April 12th, 2017

133. "Perfusable vasculature for organ-on-a-chip engineering", Professional Course in Microfluidics, University of Toronto, Toronto, ON, May 17th, 2017

134. "Bioengineered heart tissue for drug discovery and therapy", The Hospital for Sick Kids, Toronto, ON, May 24th, 2017

135. "Bioengineered heart tissue for drug discovery and therapy", 8th Annual Muscle Health Awareness Day Program, York University, Toronto, ON, May 26th, 2017

136. "Bioengineering functional tissue for drug discovery and therapy", Canadian Biomaterials Society Annual Meeting, Winnipeg, MB, May 27th, 2017 (**Keynote presentation**)

137. "The Davos Debate- A Few Clinical Successes", Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter 2017 Conference, Davos, Switzerland, June 26th, 2017

138. "Career Development Strategies", SYIS Career Session, Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter 2017 Conference, Davos, Switzerland, June 26th, 2017

139. "Towards human-on-a-plate and injectable tissues", Gordon Research Conference, Biomaterials and Tissue Engineering, Holderness, NH, USA, July 24th, 2017

140. "Tissue engineering and emerging cell based therapies", Faculty of Medicine, University of Novi Sad, Novi Sad. Serbia, July 12th, 2017

141. "Engineering microenvironments for cardiovascular regeneration", Department of Biomedical Engineering, Yale University, New Haven, CT, September 13th, 2017

142. " Bioengineering Functional Heart Tissues for Drug Discovery and Therapy" 8th Annual Wyss International Symposium Therapeutic Organ Engineering, Boston, MA, September 22nd, 2017

143. "Towards organs-on-a-plate and injectable tissues", Max Planck Institute for the Science of Light, Erlangen, Germany, October 04th, 2017

144. "Functional cardiac tissue engineering", Roche Pharma Organ-on-a-chip Symposium Basel, Switzerland, October 6th, 2017

145. "Biomaterials that promote macrophage survival and recovery after injury", Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto General Hospital Research Institute, Toronto ON, October 11th, 2017

146. "Engineering Microenvironments for Cardiovascular Regeneration", Department of Biomedical Engineering, Northwestern University, Chicago, IL, October 26th, 2017

147. "Tissue Engineering for Therapeutic Discovery", Center for Molecular Cardiology, Northwestern University, Chicago, IL, October 27th, 2017

148. "Lab grown organs", The Genesis Project Beth Tzedec Congregation, Toronto, ON October 31st, 2017

149. "Towards Injectable Human Tissues", Bioengineering Student Association, University of Toronto, Toronto ON, November 2nd, 2017

150. "How to make cardiomyocyte cultures thrive ", Cardiac Physiome Workshop, Toronto, ON November 08th, 2017

151. "Tissue Engineering for Therapeutic Discovery", Scientific Sessions of the American Heart Association, Anaheim, CA, November 12th, 2017

152. "Writing Proposal", Prospective Professors in Training Program, Toronto ON, November 28th, 2017

153. "Tissue Engineering: Organ-on-a-Chip Engineering", Regenerative Medicine Course, University of Toronto, January 11th, 2018

154. "Microfabrication of elastomeric polymers for organ-on-a-chip engineering and injectable tissues", Department of Mechanical Engineering, Boston University, January 22nd, 2018

155. "Microfabrication of elastomeric polymers for organ-on-a-chip engineering and injectable tissues", Department of Physics, University of Toronto, January 25th, 2018

156. "Designer biomaterials for cardiovascular regeneration", Department of Biomedical Engineering, Yale University, February 06th, 2018

157. "Mircofabrication of Elastomeric Polymers for Organ-on-a-Chip Engineering and Injectable Tissues", University of Toronto Faculty of Dentistry Research Day, February 13th, 2018 (**Keynote presentation**)

158. "Designer Materials for Cardiovascular Regeneration", Steacie Prize Event, Department of Chemical Engineering & Applied Chemistry, Institute of Biomaterials and Biomedical Engineering, E.W.R. Steacie Memorial Fund and the Faculty of Applied Science and Engineering, University of Toronto, February 26, 2018

159. "Designer Biomaterials for Cardiovascular Regeneration", 21st Annual Department of Laboratory Medicine Graduate Research Conference, University of Toronto, April 3, 2018 (**Keynote presentation**)

160. "Smart biomaterials for wound healing, cardiac regeneration and antibacterial applications", Myant visit, Faculty of Applied Science and Engineering, University of Toronto, April 04th, 2018

161. "Organ-on-a-Chip Engineering", The Future of Health Innovation, Toronto, ON, April 12th, 2018

162. "Designer Biomaterials for Cardiovascular Regeneration"Heart and Stroke Foundation, Toronto, ON May 10th, 2018

163. "Mircofabrication of Elastomeric Polymers for organ-on-a-chip Engineering and Injectable Tissues", Andrew and Peggy Cherng Department of Medical Engineering Distinguished Speaker Seminar, Caltech and UCLA, Pasadena, CA May 17th, 2018

164. "Bioengineering functional heart tissues for discovery and therapy", Heart and Stroke Foundation, Aird and Berlis, Toronto, ON, May 31st, 2018

165. "Microfabrication of Elastomeric Polymers for organ-on-a-chip Engineering and Injectable Tissues", ECI (Engineering Conferences International) Nanotechnology in Medicine II: Bridging Translational in vitro and in vivo Interfaces, Albufeira Portugal, June 5th-9th, 2018 (**Plenary Speaker**)

166. "Microfabrication of Elastomeric Polymers for organ-on-a-chip Engineering and Injectable Tissues" iBEST Symposium, Ryerson University, Toronto, ON June 14th, 2018 (**Keynote Speaker**)

167. "Designer Biomaterials for Healing Regeneration", Drug Carriers in Medicine and Biology Gordon Research Conference, West Dover, VT, August 12-17, 2018 **(Invited Speaker)**

168. Panel Discussion on Intellectual Property and Entrepreneurship, 2018 The Clinical Translation Education Group (CTEG), Toronto, ON September 14, 2018 **(Invited Speaker)**

169. "Advances in Organ-on-a-chip", Sanofi Future of Biologics, Boston MA, October 15, 2018 (**Invited Speaker**)

170. "Organs-on-a-Plate and Injectable Tissues", Regenerative Engineering Symposium, Pittsburgh PA, October 28, 2018 (**Plenary Speaker**)

171. "Elastomeric Polymers for Microfabrication of Organs-on-a-Chip", Materials Research Society (MRS) Fall Meeting Sympoium, Boston MA, November 27, 2018 (**Invited Speaker**)

172. "Micofabrication of Elastomeric Polymers for Organ-on-a-chip Engineering and Injectable Tissues", Petit Institute Seminar at Georgia Tech, Atlanta GA, November 29, 2018 (**Invited Speaker**)

173. "Engineering atrial and ventricular cardiac tissues for drug testing", Society of Toxicology of Canada 50th Annual Symposium, Toronto ON, December 11, 2018 (**Invited Speaker**)

174. "Engineering Microenvironments for Cardiovascular Regeneration", Stem Cell Institute Weekly Research Conference at University of Minnesota, Minnesota MN, December 12, 2018 (**Keynote Speaker**)

175. "Microfabrication of Elastomeric Polymers for Organ-on-a-Chip Engineering and Injectable Tissues" Department of Biomedical Engineering, Columbia University, New York, NY, January 29th, 2019

176. "How to achieve tenure", ACS Biomaterials Science & Engineering Webinar, February 22nd, 2019

177. "Engineering tissue architecture through microfabrication and polymer engineering", EMBO/EMBL Symposia, Heidelberg, Germany, March 17-20, 2019 (**Invited Speaker**)

178. "Engineering tissue architecture through microfabrication and polymer engineering" Department of Biomedical Engineering, National University of Ireland Galway, Galway, Ireland, March 29th, 2019

179. "Predicting Proarrhythmia Using Cardiomyocytes Derived from iPS Cells", Gordon Research Conference, Tuscany, Italy, March 31-April 5, 2019 (**Keynote Speaker**)

180. "Heart-on-a-chip for Drug Discovery and Disease Modeling", ICS Seminars and Visiting Scientist Program at the University of Manitoba & St. Boniface Hospital, Winnipeg, Manitoba, May 8, 2019 (**Invited Speaker**)

181. "Organ-on-a-Chip Engineering & Injectable Tissues", Ottawa Cardiovascular Research Day, University of Ottawa Heart Institute (UOHI), Ottawa, ON, May 13, 2019 (**Keynote Speaker**)

182. "Engineering atrial and ventricular cardiac tissues for drug testing", CBS2019 35th Annual Meeting of The Canadian Biomaterials Society, Quebec City, Quebec, May 21-24, 2019 (**Plenary Speaker**)

183. "Organ-on-a-Chip Engineering and Entrepreneurship", 2nd Entrepreneurship Clinic and Biomaterials Pitch Competition, Canadian Biomaterials Society Annual Meeting, Quebec City, QC, May 21st, 2019

184. "Advances in organ-on-a-chip engineering", FEBS 2019 Advanced Lecture Course, Biological Surfaces and Interfaces: The Mechanistic View, Sant Feliu de Guixols, Spain, June 20 - July 5, 2019 (**Invited Speaker**)

185. "Perfusable vasculature for organ-on-a-chip engineering", Microfluidics Professional Course University of Toronto, July 17th, 2019 (**Invited Speaker**)

186. "Biowire models of healthy and diseased myocardium", Cell Symposium: Engineering and Organs, San Diego, California, August 25-27, 2019 (**Invited Speaker**)

187. "Artificial living systems", CRAFT Symposium, Toronto, ON August 28th, 2019 (**Invited Speaker**)

188. " Research Ethics", Webinar for Early Career Board of ACS Biomaterials Science & Engineering, Sept 12th, 2019 (**Invited Speaker**)

189. "Healthy and diseased myocardium-on-a-chip", PRiME Precision Medicine Inaugural Symposium, Royal Ontario Museum, Toronto ON, September 30, 2019 (**Invited Speaker**)

190. "Engineering Tissues for Medical Discovery and Therapy", Skule Lunch and Learn Series, University of Toronto, Toronto ON, October 9, 2019 (**Invited Speaker**)

191. " Towards glomerulus-on-a-chip", NUGoKidney Innovation Symposium, Northwestern University, Chicago IL, October 18, 2019 (**Invited Speaker**)

192. "Biowire models of healthy and diseased myocardium", NIH Tissue Chip Biomaterials Workshop, Washington DC, October 24-25, 2019 (**Invited Speaker**)

193. "Biowire models of healthy and diseased myocardium", Distinguished Lecture at CAMBR, University of Western Ontario, November 7, 2019 (**Invited Speaker**)

194. "Towards organs-on-a-plate and injectable tissues", School of Biomedical Engineering, Dalhousie University, Halifax, NS, November 28th, 2019 (**Invited Speaker**)

195. "Organs-on-a-Chip: Driving transformation through biomedical engineering research", Dalhousie University 20th Anniversary Celebration, Halifax, NS November 27-28, 2019 (**Keynote Speaker**)

196. "Pretty like mommy, smart like daddy" YWCA Toronto Presents: The Walrus Talks Women of Distinction, Toronto ON, November 26, 2019 (**Invited Speaker**)

197. "Heart-on-a-chip for modelling of healthy and diseased myocardium", TERMIS AM, Dec 04th, 2019, Orlando, FL (**Plenary Speaker**)

198. "Ethical and Societal Issues in Functional Tissue Engineering" TERMIS AM, Dec 04th, 2019, Orlando, FL (**Invited Speaker**)

199. "Towards cancer-on-a-chip", OICR PRIME Meeting, Toronto, ON, Dec 18th, 2019 (**Invited Speaker**)

200. "Towards heart and kidney-on-a-chip", School of Molecular Sciences at Arizona State University, 2020 Seminar Series, January 23-25, 2020 (**Invited Speaker**)

201. "My career in academia, science and translation", OTLF Workshop, Richmond Hill, ON, February 09th, 2020 (**Invited Speaker**)

202. " How to achieve tenure", Webinar for Early Career Board of ACS Biomaterials Science & Engineering, Feb 22nd, 2020 (**Invited Speaker**)

203. "Advances in organ-on-a-chip engineering," BEaTS Webinar uOttawa, June 10th, 2020

204. " Advances in heart-on-a-chip engineering," ISSCR Annual Meeting June 26, 2020 (Invited Speaker)

205. "Recapitulating pancreatic tumor microenvironment through synergistic use of patient organoids and organ-on-a- chip vasculature," European Organ-on-a-chip Society Webinar Conference, July 8th & 9th, 2020

206. "Beyond PDMS: new materials and culture systems for organ-on-a-chip engineering," Tissue Talks Webinar Series, Columbia University, June 24, 2020

207. "Towards heart and kidney on a chip," UNC/NCSU Joint Department of Biomedical Engineering eSeminar Series, September 18, 2020

208. "Instructive biomaterials for healing and regenerations," eSeminar Series on Translational Biomedical Engineering, September 30, 2020

209. "Instructive biomaterials for healing and regeneration", Department of Biomedical Engineering McGill University, Montreal, QC, October 30th, 2020

210. "Optimizing Synergy Between Materials and Cell Microenvironments Using Functional Polyesters", Materials Research Society Fall Meeting, December 02nd, 2020

211. "Instructive Biomaterials for Healing and Regeneration:, Inaugural Advanced Biomedical Materials CDT Conference, University of Manchester/ University of Sheffield, UK, December 09th, 2020

212. "Instructive biomaterials for cardiac healing and regeneration", **World Biomaterials Congress**, Saturday December 12th, 2020

213. "Telling your story as a fundraising strategy", ENT, Boston, MA, Dec 15th, 2020

214. "Organ-on-a-chip platforms for podocyte cultivation", **Regeneron Pharmaceuticals**, February 28th, 2021

215. "Instructive biomaterials for healing and regeneration", **Gates Center Seminar Series**, University of Colorado Anschutz Medical Campus, January 12th, 2021

216. "Towards heart and kidney on a chip", Department of Chemical and Biological Engineering, **University of British Columbia**, February 19th, 2021

217. "Towards heart and kidney on a chip", **Stem Cell Technologies**, March 19th, 2021

218. "Body and organ on a chip as the next frontier in accelerating bio and nanomaterials discovery", **BioNTerm**, March 22nd, 2021 (Plenary)

219. "Advancing organ-on-a-chip devices and biomaterials into real-world applications", **AdMare**, March 26th, 2021

220. "Starting a company at UofT", **CERCL**, Department of Chemical Engineering and Applied Chemistry, University of Toronto, April 04th, 2021

221. "Towards heart and kidney-on-a-chip", **Terasaki Institute**, April 07th, 2021

222. "Advances in organ-on-a-chip engineering", Chemical Engineering Seminar Series, **Cornell University,** Ithaca, NY, April 19th, 2021

223. "Towards translating organ(oid) engineering" **Cell Symposia Express**: Engineering Organoids and Organs, April 26, 2021

224. "Aske Me Anything" PEO Lakeshore Chapter and SWE Durham, April 28th, 2021

225. " Advances in organ-on-a-chip engineering" 1st SINERGIA Summer School, **University of Basel,** May 13th, 2021

266. "Advances in organ-on-a-chip engineering" **Beacon Mini-Symposium, University of Toronto Trinity Centre for Biomedical Engineering,** June 11th, 2021

267. "SARS-CoV-2 toxicity in organ-on-a-chip vascular system" Human Organoid Systems to Study Vascular Toxicity, **NAVBO Symposium**, June 15th, 2021

268. "Towards kidney-on-a-chip" **CRAFT Symposium, University of Toronto/NRC**, August 25th, 2021

269. "Optimizing synergy between materials and cell microenvironments using functional polyesters" **31st CONFERENCE OF THE EUROPEAN SOCIETY FOR BIOMATERIALS**, Sept 08th, 2021

270. "Elastomers for tissue engineering and organs-on-a-chip" **UKRMP Regenerative Medicine Virtual Conference** Sept 21st, 2021

271. **"**From tissue engineering to organs-on-a-chip**" Tissue Engineering-Next Generation TERC Columbia University,** Sept 21st, 2021

272. "Heart-on-a-chip and disease modelling" **3rd International Symposium on the Future of Regenerative Medicine,** Sept 25th, 2021

273. "Organ-on-a-chip models of COVID-19" **PRiME-ETH Zurich Joint Symposium**, Sept 27th, 2021

274. "Vascularized organoids and organs-on-a-chip for drug discovery and disease modelling" **PRIME-Amgen,** November 08th, 2021

275. "Chamber specific cardiac tissues and disease modelling" **American Heart Association Scientific Sessions**, November 15th, 2021

276. "Instructive biomaterials for healing and regeneration" **Till and McCulloch Meeting**, Nov 15th - 17th, 2021

277. "Hierarchical Assembly of Podocyte Structures on Fractal Substrates for Kidney-on-a-Chip Engineering" **Materials Research Society,** Fall Meeting, Dec 06th 2021

278. "Heart-on-a-chip for modelling of healthy and diseased myocardium" **Translational Cardiovascular Symposium- TransMedTech Institute,** Dec 08th, 2021

279. "From viruses to therapeutic exosomes breaking new ground for organs-on-a-chip" **Medicine by Design 6th Annual Symposium** December 09th, 2021

280. "Advances in Organ-on-a-Chip Engineering", **Institute of Biomedical Engineering, University of Toronto** Feb 08th, 2022

281. "Advances in Organ-on-a-Chip Engineering", **Department of Biomedical Engineering, Johns Hopkins University**, Feb 14th, 2022

282. "CRAFT Educational component", **CRAFT Industry Workshop**, March 30th, 2022

283. "Advances in Organ-on-a-Chip Engineering", **Wiley Aggregate Webinar**, March 30th, 2022

284. "Biomimetic approach to engineering cell microenvironments", **PRIME Research Rounds,** April 07th, 2022

285. "Advances in Organ-on-a-Chip Engineering"**, Department of Laboratory Medicine and Pathobiology, University of Toronto,** April 11th, 2022

286. "Introduction to Centre for Research and Applications in Fluidic Technologies (CRAFT)", **Amgen Visit, University of Toronto,** April 26th 2022

287. "Organ-on-a-chip engineering", **Amgen Visit, University of Toronto**, April 26th 2022

288. "An introduction to Cardiac Research and Mitochondrial Dysfunction", **MITO2i Second Annual Research Symposium**, April 27th, 2022

289. "Advances in Organ-on-a-Chip Engineering", **Society for Biomaterials Annual Meeting**, Baltimore, MD, **Acta Biomaterialia Silver Medal Lecture**, April 29th 2022

290. "Advances in Organ-on-a-Chip Engineering", European Molecular Biology Laboratories (EMBL) Workshop, Madrid Spain, May 9th – May 11th, 2022

291. "Heart-on-a-chip for modelling healthy and diseased myocardium", Translational Biology and Engineering Program (TBEP) PI Meeting-Cardiac Science, Toronto ON, June 23rd, 2022

292. "Bioengineering Heart Tissue Function Using Microfabricated Elastomers", TERMIS-AM Annual Meeting, Toronto, ON, July 11th, 2022 (**Keynote**)

293. "Advanced in Heart-on-a-Chip Engineering", Cardiovascular Research Meeting Life Sciences Switzerland, July 05th, 2022

294. “Organs-on-Chip: Driving transformation through biomedical engineering research”, OTLF Foundation Virtual Presentation, July 16th, 2022

295. “Cardiovascular tissue engineering and organs-on-a-chip”, REMODEL Summer School University of Porto, Portugal, Sept 19th, 2022

296. “Heart-on-a-chip for modelling healthy and diseased myocardium”, Valo Technologies, Virtual, September 30th, 2022

297. “Advances in vascularization of cardiac tissues and hearts-on-a-chip”, BIOtech (Biomedical Technologies) Seminar Series, Virtual, October 4th, 2022

298. “Engineering Healthy and Diseased Heart”, IEEE EMBS Chapter Torch Relay Public Webinar, October 04th, 2022

299. “Heart-on-a-chip for modelling healthy and diseased myocardium”, Center for Regenerative Engineering and Translational Ecosystem” (CREATE Program) Symposium at Huck Institute, Penn State University, State College PA, October 7th, 2022

300. “Human Pluripotent Stem Cell-Derived Cardiomyocyte-Based Models for Cardiotoxicity and Drug Discovery”, NYAS Symposium: Artificial Intelligence & Engineered Tissues to Mend Broken Hearts, The New York Academy of Sciences, October 26th – 27th, 2022.

301. "Cardiovascular signatures of COVID-19 predict mortality and identify barrier stabilizing therapies", 4th European Public Health Webinar, Virtual, November 4th – 5th, 2022.

302. “Fibroblasts and Fibrosis: From Molecular Mechanisms to Actionable Targets”, American Heart Association Scientific Session, Chicago IL + Virtual, November 6th – 7th, 2022.

303. “Q-peptide Hydrogel for Healing and Regeneration”, Brazilian Society of Dermatologists and Plastic Surgeons, Virtual, November 26th, 2022

304. Invited Speaker for UofT Scholarship for Women in Engineering Fundraiser, Celebrating Unlimited Potential in memory Irene Sterian, ONRAMP, Nov 23rd, 2022

305. “Advances in organ-on-a-chip engineering”, Donnelly CCBR Seminar Series at the University of Toronto, December 8th, 2022

306. **“**Building Networks: Vascularization of Engineered Tissue Models”, Ted Rogers Centre for Heart Research 2022 Heart Failure Symposium, Invited Speaker, Toronto Reference Library, Toronto ON, December 16th, 2022

307. “Engineered Platform for High Throughput Drug Screening”, 2023 Keystone Symposia on Heart Development and Disease, Invited Speaker, Santa Fe, New Mexico, February 12th – February 15th, 2023

308. “3D cell culture, organoids and in general 3D systems”, Center of Experimental Rheumatology Symposium, University Hospital, Zürich University, Virtual, March 9th, 2023

309. “Heart-on-a-chip models of healthy and diseased myocardium”, Pittcon Conference and Exposition, Philadelphia, Pennsylvania, USA, March 18th- March 22nd, 2023

310. "On-a-chip model of SARS-CoV-2 myocarditis" CL3 Virtual Lunch Break Emerging & Pandemic Infections Consortium, March 15th, 2023

311. "Organs-on-a-chip" MEDICINE BY DESIGN CONVERGENT WORKING GROUP Stem cell-based therapy: a novel regenerative medicine approach for neonates with intestinal injury, SickKids Hospital, Toronto, ON March 25th, 2023

312. "Heart-on-a-chip for modelling of healthy and diseased myocardium", Les Shemilt Lectureship at ChemEng McMaster University, Hamilton ON, March 29th, 2023

313. "Advancements in Microscale Technologies in Life Sciences" Health VC Roundtable: Advancements In Microscale Technologies, MaRS, April 19th, 2023

314. "Heart-on-a-chip for modelling of healthy and diseased myocardium" Department of Biomedical Engineering Colloquium, Pennsylvania State University, April 27th, 2023

3.3 PROFESSIONAL ASSOCIATION MEMBERSHIPS

- (2003-2006, 2010) Materials Research Society (**MRS**)
- (2003-current) Tissue Engineering and Regenerative Medicine Society International (**TERMIS**)
- (2005-current) American Institute of Chemical Engineers (**AIChE**), Senior Member since 2008
- (2005-current) Society for Biological Engineering (**SBE**)
- (2006-2007) American Society for Engineering Education (**ASEE**)
- (2010-current) Biomedical Engineering Society (**BMES**)
- (2011-current) Member of Ontario Stem Cell Initiative **(OSCI)**
- (2012-current) American Association for the Advancement of Science (**AAAS**)
- (2014-current) Cardiovascular Sciences Collaborative Program, University of Toronto
- (2015-current) American Institute for Medical and Biological Engineering (**AIMBE**)
- (2017-current) Royal Society of Canada
- (2016-current) Canadian Academy of Engineering
- Member of **PEO** and **OSPE**

3.4 PROFESSIONAL ASSOCIATION ACTIVITIES

2005 AIChE Annual Meeting; Session Co-chair: Cardiovascular Tissue Engineering, Oct 30-Nov 04, Cincinnati, OH

2006 ISHR Meeting, North American Section; Session Chair: Tissue Engineering and Nanotechnology in the Heart/Vascular System, June 13-16th, 2006, Toronto, ON

2007 Scientific Day Program Committee and Verma Award Selection Panel, Heart & Stroke/Richard Lewar Centre of Excellence in Cardiovascular Research, University of Toronto

2007 TERMIS NA Conference and Exhibition on Tissue Engineering and Regenerative Medicine; Session Co-chair: Cardiac Tissue, June 13th-16th, 2007, Toronto, ON, Canada

2007 Annual Meeting of the American Electrophoresis Society (Topical conference at the 2007 AIChE Annual Meeting); Session Co-chair: Biomems and Microfluidics-Novel Applications, Nov 4-9, Salt Lake City, UT

2007 AIChE Annual Meeting, November 4-9, Salt Lake City, UT Session Co-cha Stem Cells in Tissue Engineering Engineering Fundamentals of Life Sciences Poster Session

2008 World Biomaterials Congress, May 28-June 01, Amsterdam, The Netherlands, Symposium organizer: Young Scientist Forum (replaced due to pregnancy)

2008 TERMIS EU, June 22-26, Porto, Portugal, Symposium Organizer/Chair: Cardiac Tissue Engineering (replaced due to pregnancy)

2008 AIChE Annual Meeting, November 2008, Philadelphia, PA Session Chair, Biomems and Microfluidics: Cell and Biomolecule Analysis (replaced due to pregnancy)

2009 World Congress of Chemical Engineering, August 23-27, Montreal, QC, Session Co-chair: Biomaterials, Tissue Engineering and Regenerative Medicine (6 and 7)

2009 AIChE Annual Meeting, November 8-13, 2009, Nashville, TN, Session Co-chair:
Biomaterial-Cell Interactions in Tissue Engineering
Bioreactors in Tissue Engineering

2009 MRS Fall Meeting, November 30 - December 4, Boston, MA, Session Chair: Engineering Biomaterials for Regenerative Medicine, RR4-Advanced Scaffold Design

2011 Society for Biological Engineering's Second International Conference on Stem Cell Engineering, May 02-05, 2010, Boston, MA – Poster Session Chair

2010 Canadian Biomaterials Society Meeting, June 02-04, Kingston, ON, Session Chair: Cardiovascular Biomaterials 1103

2010 BMES Annual Meeting, October 06-10, Austin, TX, Session Chair: Bioreactors and Bioprocessing in Tissue Engineering

2010 AHA Scientific Sessions, November 13-17, Chicago, IL, Session Moderator: Cardiovascular Seminar CVS.306.Update on Tissue Engineering: What's Growing?

2010 TERMIS-NA Annual Conference, December 08-08, Orlando, FL, Session Chair: Bioreactor Technologies

2010-2012 TERMIS-NA Membership Committee

2011 IEEE-EMBC Meeting, August 30th- Sept 3rd, Boston, MA Program Co-chair for Theme 7 Molecular and Cell Biomechanics, Tissue Engineering, Biomaterials

2011 IEEE-EMBC Meeting, August 30th- Sept 3rd, Boston MA, Mini-symposium organizer: Electrical Fields at the Cell and Protein Scale

2011 BMES Annual Meeting, October 12-15, Hartford, CT, Session Chair: Bioreactors and Bioprocessing in Tissue Engineering"

2011 AIChE Annual Meeting, October 28-November 02, Minneapolis, MN, Session Chair: Bioreactors In Tissue Engineering

2012 California Institute for Regenerative Medicine Tissue Engineering Workshop (closed, by invitation), Chair:

Hydrogels for Cell Delivery & Tissue Repair I, January 11-14, 2012 San Francisco, CA

2012 TERMIS World Congress Advisory Board Member

2012 TERMIS World Congress, September 05-08, Vienna, Austria;
Session Chair: Cardiac Regeneration
Poster Session Chair: Translation in Tissue Engineering and Stem Cell Therapy
Poster Session Chair: Cardiac Regeneration
Poster Session Chair: Bioreactors for Translational Research

2012 BMES Annual Meeting , October 24th-27th, Atlanta, GA; Session Chair: Cardiovascular Tissue Engineering II

2012 Symposium Organizer "Beyond Borders: Lyon Sachs Symposium on Tissue Engineering and Regenerative Medicine", Toronto, ON May 08-09

2012-2014 TERMIS-AM Membership Committee

2012-2013 Review Committee, **Israeli Council on Higher Education**, The Committee for the Evaluation of Biotechnology and Biotechnology Engineering, Reviewed the following institutions:
-Hadassah Academic College -Technion -Ben Gurion University -Tel Aviv University

2012 IBBME 50th Anniversary, October 10th, Toronto, ON; Session Chair: Biophysics of Cell Behavior

2012-2018, Member of Ontario, Society of Professional Engineers Women in Engineering Committee

2013 Symposium Organizer "Beyond Borders: Lyon Sachs Symposium on Tissue Engineering and Regenerative Medicine", Haifa, IL, May 06-08

2013 Society for Biomaterials Annual Meeting, April 10-13, Boston, MA; Session co-Chair: Biomaterials for Cardiac Repair

2013 TREMIS-AM Annual Meeting, November 10-13, Atlanta, GA; Organizer of the Inaugural Workshop on Women in Tissue Engineering and Regenerative Medicine. Wrote proposals to fund the Workshop.

2013 TREMIS-AM Annual Meeting, November 10-13, Atlanta, GA; Session Co-Chair: Engineering Tissues for in vitro Screening and Diagnostics

2013-2015 TERMIS-AM Membership Committee Chair

2013 BMES Annual Meeting, Sept 25-28, Seattle WA; Cardiovascular Engineering Track Chair; Abstract Reviewer

2013-2015 Founding chair of the Cardiovascular/Angiogenesis/Blood Thematic Working Interest Group (TWIG) at TERMIS-AM

2013-ongoing, Contributing member of Faculty of 1000 (F1000)

2014 TERMIS-AM Annual Meeting, Dec 11-15, Washington, DC; Scientific Advisory Committee Member

2014 TERMIS-AM Annual Meeting, Dec 11-15, Washington, DC

- Session Co-Chair: Cardiac tissue engineering: Current State and Future Perspectives
- Women in TERM Workshop Organizer

2014 BMES Annual Meeting, Oct 22-25, San Antonio, TX;

- Cardiovascular Engineering Track Chair; Abstract Reviewer
- Abstract Reviewer
- Poster session chair "Cardiac Electrophysiology and Mechanics"
- Poster session chair "Cardiovascular Regeneration and Functional Restoration"
- Platform session chair "Cardiac Regeneration"

2014-2015 IEEE BioMEMS Technical Committee Member

2015 TERMIS World Congress, Sept 08th-11th, Boston, MA; Scientific Advisory Committee Member

2015 TERMIS World Congress, Scientific Abstract Reviewer, Boston, Massachusetts, United States

2015-2018 **Council of Ontario Deans of Engineering** (CODE), representative of OSPE

2015 **Canadian Biomaterials** Society Annual Meeting, Toronto, ON, Canada
Session Chair, "Soft tissue engineering"

2015 Annual Meeting of the **European Society of Artificial Organs**, Abstract Reviewer

2015 Annual Meeting of **Biomedical Engineering Society (BMES**), Tampa FL, Abstract Reviewer

2015 **American Institute for Medical and Biological Engineering**, Nominations Review Panel

2015 Scientific Committee Member of the **42th European Society for Artificial Organs** meeting in Leuven, Belgium

2015 **Royal Society of Canada**, Chair of the Nominations Committee for College of New Scholars, Artists and Scientists.

2015 **AIMBE VOICE** Initiative

2016 **World Biomaterials Congress**, Montreal Canada
Abstract reviewer
Session Co-chair Organ-on-a-Chip Engineering
Workshop Organizer, "Round Table 4: Avenues of scientific information dissemination"

2016 Scientific Committee Member, **European Elastin Meeting**, Stuttgart, June 17th-19th

2016**American Heart Association (AHA) Basic Cardiovascular Sciences (BCVS),** Phoenix, AZ, USA
Scientific Program Committee
Abstract Reviewer

2016 GLP training February 10th

2016-2018 **OSPE Scholarships Review Panel**

2016 Organizing Committee, **AIChE International Conference on Stem Cell Engineering**, Toronto, ON, October 23-26, 2016.

2016 **American Institute for Medical and Biological Engineering**, Nominations Review Panel, Biomaterials

2016 **Workshop on the Future of Regenerative Medicine in Canada**, by invitation only, Council of Canadian Academies

2016 **Program Committee, IEEE Micro- and Nanoengineering in Medicine Conference**, Waikoloa, HI, December 12th-16th, 2016

2016 Review Committee, **"Israeli Council on Higher Education"**, Member of the External Review Panel for Biomedical Engineering, 2016. Reviewed biomedical engineering programs at the following institutions: - Technion-Israel Institute of Technology - Ben Gurion University -Tel Aviv University - Afeka College

2017 **Conference Co-Chair, Keystone Symposia,** "Engineered Cells and Tissues as Platforms for Discovery and Therapy (K1)"March 09-12th, 2017

2017 Session Chair, Engineered Tissues in Cancer, **Keystone Symposium**, "Engineered Cells and Tissues as Platforms for Discovery and Therapy" , Boston, MA, March 11th, 2017

2017 Session Organizer, "Biomaterials for Cardiovascular Regeneration", Society for Biomaterials, Minneapolis, MN, April 5-8, 2017

2017 Session Chair, "Targeting Regenerative Medicine", **Ted Rogers Centre for Heart Research- Heart Failure Update**, Toronto, ON, May 12th, 2017

2017-current Review Subcommittee **AIMBE Fellowships-Cellular and Tissue Engineering**

2017-current Review Subcommittee **AIMBE Fellowships-Biomaterials**

2017 Session Co-Chair, "Advances in Cardiac Tissue Engineering & Bioengineered Valves for Vascular Repair", **TERMIS-AM Annual Meeting,** Charlotte, NC, December 3rd-6th, 2017

2017 Poster judge, **TERMIS-AM Annual Meeting,** Charlotte, NC, December 3rd-6th, 2017

2018 Student/mentor lunch, **TERMIS-AM Annual Meeting,** Charlotte, NC, December 3rd-6th, 2017

2018 **TERMIS World Congress Meeting,** Full Investigator, Kyoto, Japan, September 3rd-7th, 2018

2018 **BMES Annual Meeting**, Editors & EAB Meeting, October 17th-18th, 2018 Alabama, USA

2018 Organizing Committee member for the Society for Biological Engineering **6th International Conference on Stem Cell Engineering** (Stem Cell 2018), Los Angeles, CA December 5th-7th, 2018

2018 Session Co-Chair, **Michael V. Sefton Symposium**, Toronto ON, October 29th & 30th, 2018

2018 McMaster Alumni Association Board Member

2019 Organizer The Ontario-on-a-Chip (OOAC) Symposium, Toronto ON, May 16th & 17th, 2019

2019 Co-organizer Canadian Biomaterials Society Annual Meeting 2nd Entrepreneurship Clinic, May 21st-24th 2019, Quebec City, QC

2019 Poster judge, Canadian Biomaterials Society Annual Meeting, May 21st-24th 2019, Quebec City, QC
Board of Directors, Canadian Biomaterials Society

2020 Organizing committee, 5th Bioengineering & Translational Medicine Conference September 28-29, 2020, Society for Biological Engineering (SBE)

2020-2021 Member of the Workshop Planning Committee for the **USA National Academy of Sciences Roundtable on Science and Welfare of Laboratory Animal Use**, workshop title: "Microphysiological Systems: Bridging Human and Animal Research"

2020 **-2021 IEEE Conference on Nanotechnology**, Organizer of Nanomedicine symposium, Montreal, QC, July 28th-31st, 2020

2021 Member of the International Scientific Advisory Board, 6th TERMIS World Congress, May 31st-June 04th, Maastricht, The Netherlands

2022 Co-Chair, Engineering Conferences International (ECI Conference), Nanotechnology in Medicine III: Enabling Next Generation Therapies, Grand Hotel San Michele, Calabria, Italy May 15-20,

2022 Co-Chair, EMBO Workshop, Building networks: engineering in vascular biology, Barcelona, Spain, May 09th- 11th,

2022 Organizing Committee, New York Academy of Sciences Symposium: Artificial Intelligence & Engineered Tissues to Mend Broken Hearts, The New York Academy of Sciences, October 26th – 27th,

2023 Abstract reviewer, TERMIS Annual Meeting

2023 Abstract reviewer, Annual Meeting of the Canadian Biomaterials Society

2023 TERMIS-AM Annual Meeting, Session Co-Chair, Business Plan Competition

2023 TERMIS-AM Annual Meeting, Session Co-Chair, Session 30: Building Networks: Advances in Tissue and Organ Vascularization

2023 Organizing Committee of the TERMIS-AP Conference, which will be held on October 16-19, in Hong Kong Science Park

3.5 DEPARTMENTAL/FACULTY/UNIVERSITY COMMITTEES

- 2005-2009 Member Scientific Advancement Board of Advanced Regenerative Tissue Engineering Centre (ARTEC), Sunnybrook Health Sciences Centre, Toronto

- 2005 Biomaterials Search Committee Faculty of Dentistry/Department of Materials Science and Engineering and IBBME

- 2006-current Graduate Recruitment Committee, Department of Chemical Engineering and Applied Chemistry, University of Toronto

- 2006 IBBME Scientific Day, University of Toronto, Poster Judge
- 2006-2008 Graduate Studies Committee, Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2007-2008 Faculty of Applied Science and Engineering, member of the Working Group on Branding- defining the new brand for the Faculty
- 2007-2008, 2009-current Department of Chemical Engineering and Applied Chemistry, Awards and Honours Committee
- 2007-current Member of the Executive Committee for the REMEDI Project with the budget of $18 million, University Health Network, Toronto
- 2007 IBBME Scientific Day, University of Toronto, Poster Judge
- 2007 PTR/Activity Evaluation Committee, IBBME, University of Toronto
- 2007 PTR/Activity Evaluation Committee, Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2008 Organizer of the Assistant Professor's Retreat, Department of Chemical Engineering and Applied Chemistry
- 2009 Reviewer, Ontario Post-doctoral Fellowship, University of Toronto
- 2009 Organizer of the Symposium in Honour of Dr. Michael Sefton's 60th Birthday, University of Toronto
- 2010 PTR/Activity Evaluation Committee, IBBME, University of Toronto
- 2009-2010 IBBME Graduate Journal Advisory Committee
- 2010 Post-doctoral Fellowship Review Committee, Center of Excellence in Cardiovascular Research (HSRLCE), University of Toronto
- 2010 Reading Committee for a Tenure File, Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2010-2011 Chair Search Committee for Department of Chemical Engineering and Applied Chemistry, Faculty of Applied Science and Engineering, University of Toronto
- 2011 Faculty Search Committee for IBBME/CCBR faculty position in stem cell bioengineering
- 2011 Third year review committee for Prof. Alison McGuigan, Department of Chemical Engineering and Applied Chemistry
- 2011, 2012 Graduate Coordinator-Collaborative Program, IBBME, University of Toronto
- 2012 Faculty Search Committee for Department of Chemical Engineering and Applied Chemistry
- 2012 Graduate Department Academic Appeals Committee (GDAAC), Chemical Engineering and Applied

Chemistry

- 2012-current, Mentor for Prof. Rodrigo Fernandez-Gonzalesz, IBBME
- 2012-2013 IBBME Seminar Series organized visit of
    - Prof. Kursad Turksen, Feb 04th, 2013
    - Prof. Muhammad Yousaf, Feb 28th, 2013
- 2013 Three Year Review Committee for Prof. Arun Ramachandran, Department of Chemical Engineering and Applied Chemistry
- 2013-2014 Tenure Committee for Prof. Ofer Levi, Institute of Biomaterials and Biomedical Engineering
- 2013 Internal Reviewer for NSERC Discovery Grants, Institute of Biomaterials and Biomedical Engineering
- 2013 Graduate Scholarship Review Committee, Center of Excellence in Cardiovascular Research (HSRLCE), University of Toronto
- 2013-2014 IBBME Graduate Appeals Committee, University of Toronto
- 2013-2014 PRT Committee Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2014-2016 Center for Microfluidic Systems, Operations Committee
- 2014-2017 Member of the Connaught Committee, University of Toronto. This University committee oversees the use of funds from the sale of Connaught Labs to Sanofi-Pasteur for research and scholarship purposes.
- 2014-current, Mentor for Prof. Gizele Azimi, Department of Chemical Engineering and Applied Chemistry
- 2015 October-present Faculty Advisor for AIChE Student Chapter, University of Toronto
- 2015 October- present, Faculty Advisor for ChemE Car, University of Toronto
- 2016 Search committee for Department Chair, Chemical Engineering & Applied Chemistry
- 2016 Search committee for a Faculty Member, Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2016 Advisory committee for selection of the Dean of the Faculty of Applied Science and Engineering, University of Toronto.
- 2017 Tenure Committee member, Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2017 Judge for the BESt Design Case Competition 2017, University of Toronto
- 2016-2017 IBBME Faculty Mentor for Undergraduate Student

- 2017-2020 Research Committee, Faculty of Applied Science and Engineering, University of Toronto
- 2017 Academic Planning Committee, Faculty of Applied Science and Engineering, University of Toronto
- 2017 Search Committee Member for the Director of the Institute of Biomaterials and Biomedical Engineering, University of Toronto
- 2018-current President's International Council on the United States Committee, School of Public Policy & Governance, University of Toronto
- 2018 McCharles Prize Selection Committee, Faculty of Applied Science and Engineering, University of Toronto
- 2018 Decanal representative for the Electrical and Computer Engineering Faculty Search Committee
- 2018 Faculty Search Committee, Department of Chemical Engineering and Applied Chemistry
- 2018-2020 Space Committee, Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2018-2020 Annual Performance Review Committee, Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2018-2020 Co-organizer of Ontario on a Chip/NSERC TOeP Symposium
- 2017-2020 Associate Chair-Research, Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 2017-current, Centre for Research and Applications of Fluidic Technologies, CRAFT Pillar Co-Lead
- 2017-2020 Research Committee, Faculty of Applied Science and Engineering, University of Toronto
- 2017-2020 Academic Planning Committee, Faculty of Applied Science and Engineering, University of Toronto
- 2016-current Director, Ontario-Quebec Center for Organ-on-a-Chip Engineering
- 2017-current Director, NSERC CREATE Training Program in Organ-on-a-Chip Engineering and Entrepreneurship
- 2017-2020 Reviewer of NSERC NOIs for the Department of Chemical Engineering & Applied Chemistry
- 2017-2020 Organizer of the CECSeed Grants Competition for ChemE/ECE
- 2018-2020 IBBME Cross-appointments Committee
- 2020-current Steering Committee The Canada Mitochondrial Network, University of Toronto
- 2020 IBME Cross-appointments committee
- 2020 IBME Cardiovascular Search Committee

- 2020-current IBME Strategy Committee
- 2021-current PRIME Initiative Steering Committee, University of Toronto
- Co-organizer of CRAFT/NSERC TOeP symposium, August 2021
- 2022 Unity Health Search Committee
- 2022-current IBME Invited Speaker Committee
- 2022-current Chemical Engineering Peer Review Committee
- 2023-current Acceleration Consortium Self-Driving Lab 6 co-lead

3.6 BOARDS

- Council Member, Tissue Engineering and Regenerative Medicine Society-Americas (2014-2016)
- Board of Directors, TARA Biosystems (2014-2022)
- Board of Directors, Quthero Inc (2017-current)
- Board of Directors, Ontario Society of Professional Engineers (2015-2018)
- Board of Directors, McMaster Alumni Association (2018-2020)
- Board of Directors, Canadian Biomaterials Society (2018-2020)
- Centre for Doctoral Training, External Advisory Board, University of Manchester (2018-current)
- Tissue Engineering Resource Center, Columbia & Tufts, External Advisory Board (2020-current)
- Tenaya Therapeutics, Scientific Advisory Board (2020-2021)
- TERMIS Global Council Member (2022-current)

3.7 EDITORIAL BOARD MEMBER and REVIEWER

Journal Editor

- Executive Editor, **ACS Biomaterials Science & Engineering,** 2023-current
- Associate Editor, **ACS Biomaterials Science & Engineering,** 2014-current
- Reviewing Editor, **eLife**, 2018-current
- Senior Consulting Editor, **Journal of Molecular and Cellular Cardiology**, 2019-2021
- Section Editor-Bioengineering, **International Journal of Artificial Organs** 2010-2014
- Editorial Board, **Advanced Drug Delivery Reviews**, 2016-current
- Editorial Board, **Advanced Biosystems,** 2017-current
- Editorial Board, **Regenerative Biomaterials,** 2017-current
- Editorial Board, **APL Bioengineering,** Jan 2020-current
- Editorial Board, **Tissue Engineering**, Jan 2020-Dec 2022
- Editorial Board, **Small Structures**, March 2020-Feb 2023
- Editorial Board, **Trends in Biotechnology**, Feb 2020-Jan 2023
- Editorial Board, **Biomaterials & Biosystems**, Feb 2020-Jan 2023
- Editorial Board, **VIEW**, Feb 2020-Jan 2023
- Editorial Board, **Stem Cell Reports,** Feb 2022-current
- Editorial Board, **Exploration of BioMat-X**, Feb 2022-current

Special Issue Editor

- "Biomaterials for cardiac tissue engineering", **Biomedical Materials**, Volume 10, Number 3, June 2015
- "Tissue engineering of the heart: from in vitro models to regenerative solutions", **Advanced Drug Delivery Reviews**, Volume 96, January 2016
- "Biomaterials in Canada", **ACS Biomaterials Science and Engineering**, 2018
- "Beyond polydimethylsiloxane: alternative materials for fabrication of organ on a chip devices and microphysiological systems", **ACS Biomaterials Science and Engineering**, 2020
- Special issue editor "Bioinspired Materials for Wearable Diagnostics and Biosensors", **ACS Biomaterials Science and Engineering** (IF=5.395) with Neelkanth M. Bardhan and Md Nurunnabi and Milica Radisic, 2023

Member of Review Panel:

- **AIMBE Fellowship Nomination Committee** (2022)
  - Chair of International Committee A
  - Member of the Super Committee
- **NIH HLBI Program Project Grant Review Panel Member, HLBP-L** (2022)
- **NSERC McArthur Fellowship Selection Panel Member** (2022)
- **Steacie Prize Selection Panel** (2022)
- **AIMBE Fellowship Nomination Committee** (2021)
  - Chair of International Committee D
  - Member of the Super Committee
- **Serbia Innovation Fund,** Investment Committee Chair (2021-current)
- **CIHR BME Panel**, Scientific Officer (2021-2022)
- **NIH Program Project Grant** in response to PAR-21-088 NHLBI Program Project Application
- **NSERC RTI** Peer Review Panel Member (2018-2019)
- **NIH R01** Cardiac Contractility, Hypertrophy, and Failure Study Section Cardiovascular and Respiratory Sciences Integrated Review Group (CCHF)
- **NIH U01** ImmuneChip: Engineering Microphysiological Tissue Platforms (U01) SEP 2019-08 ZEB1 OSR-D (A1)
- **Innovation Fund Review Panel Member, Republic of Serbia** (2018-current)
- **Canadian Institutes of Health Research,** Project Scheme, Stage 2 Review Panel Member, 2017
- **Israeli Council on Higher Education**, Member of the External Review Panel for Biomedical Engineering, 2016. Reviewed biomedical engineering programs at the following institutions:
  - Technion-Israel Institute of Technology
  - Ben Gurion University
  - Tel Aviv University
  - Afeka College
- **NIH T32 & R25 Review Panel Member,** November 2016, November 2017
- **Canadian Institutes of Health Research**, Foundation Scheme, Stage 1, 2014, 2015
- **Canadian Institutes of Health Research,** Project Scheme, College of Reviewers**,** 2015, 2016, 2017
- Steacie Fellowship Nominations, University of Toronto Internal Review Panel, 2015, 2016
- **NIH Diabetic Complications Consortium**, Collaborative Funding Program, Grant Review Panel, 2015
- **NIH/NHLBI** Program Project Grant Peer Review Panel Member, June 05th, 2014
- **Israeli Council for Higher Education**, The Committee for the Evaluation of Biotechnology and Biotechnology Engineering, 2012-2013 Reviewed the following institutions
  - Hadassah Academic College
  - Technion
  - Ben Gurion University
  - Tel Aviv University
- **Heart and Stroke Foundation**, Committee V: Molecular Basis of Cardiac and Vascular Function, December 2012

- **NIH** Study Section (RO1 and R21): "New Strategies for Growing 3D Tissues"-ZHL CSR-N (M1 and M2) March 2011
- **Canadian Institutes of Health Research**, Biomedical Engineering Peer Review Panel (**CIHR-BME**) (Spring 2008, Fall 2010, Spring/Fall 2011, Spring/Fall 2012, Spring/Fall 2013, Spring 2014, Spring 2015, Fall 2019)
- Ontario Graduate Scholarship (**OGS**) Ministry of Training Colleges and Universities (2007-2009)
- McEwan Centre for Regenerative Medicine Post-doctoral Fellowship Review Panel (2007)

External reviewer:
- A*STAR, Biomedical Research Council, Singapore
- British Foundation Rosetrees Trust
- Canada Foundation for Innovation
- European Research Commission
- Fonazione Cariparo, Italy
- Fondation pour la Recherche Médicale, France (Bioengineering for Health)
- Heart and Stroke Foundation of Canada (**HSF**)
- Human Science Frontier
- Israel Science Foundation (**ISF**)
- Israeli Ministry of Science
- Knut and Alice Wallenberg Foundation, Sweden
- MITACS
- National Children's Research Centre (Ireland**)**
- National Science and Engineering Research Council of Canada (**NSERC**)
- New Harvest
- NIH Diabetic Complications Consortium
- Research Council of Norway
- Research Fund Denmark
- Serbia Innovation Fund
- Sick Kids Hospital Foundation, Toronto
- STEM Fellowship Journal
- Templeton Foundation
- US Air Force
- US-Israel Binational Foundation
- Weil College of Medicine

Abstract reviewer:
- Society for Biomaterials
- Canadian Biomaterials Society
- TERMIS
- BMES

Ad hoc reviewer:
- ACS Applied Polymer Science
- ACS Biomaterials Science & Engineering
- ACS Nano
- Acta Biomaterialia
- Advanced Biology
- Advanced Biosystems
- Advanced Drug Delivery Reviews
- Advanced Functional Materials
- Advanced Healthcare Materials

- Advanced Materials
- Advanced NanoBiomed Research
- Advanced Science
- AIChE Journal
- Annals of Biomedical Engineering
- APL Bioengineering
- Bioactive Materials
- Biofabrication
- Biomacromolecules
- Biomaterials
- Biomatter
- Biomedical Materials
- Biomicrofluidics
- BioTechniques
- Biotechnology & Bioengineering
- Biotechnology Progress
- Cardiovascular Engineering
- Cardiovascular Engineering and Technology
- Cell
- Cell Reports
- Cell Stem Cell
- Circulation
- Circulation Research
- Communications Biology
- Current Opinion in Chemical Engineering
- Current Vascular Pharmacology
- Development
- eLife
- Experimental Cell Research
- FASEB Journal
- Industrial & Engineering Chemistry Research
- Integrative Biology
- International Journal of Artificial Organs
- Israel Journal of Chemistry
- Journal of Biomaterials Applications
- Journal of Biomechanics
- Journal of Biomedical Materials Research Part A
- Journal of Biomedical Materials Research Part B
- Journal of Cellular Physiology
- Journal of Molecular and Cellular Cardiology
- Journal of the American Heart Association
- Journal of Theoretical Biology
- Journal of Tissue Engineering and Regenerative Medicine
- Lab on a Chip
- Langmuir
- Materials Today
- Materials Today Bio
- MED
- Methods
- Nature
- Nature
- Nature Biomedical Engineering

- Nature Biotechnology
- Nature Cardiology
- Nature Chemistry
- Nature Communications
- Nature Materials
- Nature Medicine
- Nature Methods
- Nature Protocols
- Nature Reviews Cardiology
- Nature Reviews Materials
- Neurological Research
- Organogenesis
- PLoS One
- PNAS
- Proceedings of the Materials Research Society
- Science
- Science Advances
- Science Robotics
- Science Translational Medicine
- Scientific Reports
- Small
- Small Methods
- Soft Matter
- Stem Cell Reports
- Stem Cell Research
- Stem Cell Research and Therapy
- Stem Cells Translational Medicine
- Tissue Engineering
- Trends in Biotechnology
- Trends in Cardiovascular Medicine

- **Outstanding Reviewer Status**, Acta Biomaterialia, April 2014

3.8 PUBLIC AWARENESS/EDUCATION

- Featured on the cover of "**Changing our world: The Stories of Women Engineers**" (Feb 2006). This is a flagship book of an outreach program sponsored by 55 US institutions aimed at increasing the enrolment of women in engineering http://www.engineeringwomen.org/

- Appeared on **TVOntario** show **More2Life** with Mary Ito. Topic: Women in Science, Jan 06, 2006.

- S**ummer 2006 Institute of Biomaterials and Biomedical Engineering.** Seminar to the Summer Students in IBBME, University of Toronto, on cardiac tissue engineering, most of whom were the undergraduate students of the University of Toronto.

- Winter 2008-2012 **Chemical Engineering Research Days**. Presentation to Chemical Engineering undergraduate students, University of Toronto.

- **Youth Outreach, April 14, 2009** Organized a full day of laboratory demonstrations for high school students from the Hill Academy in Kleinburg, Ontario. Sponsored by the Youth Outreach Funds from my Early Researcher Award. The teacher was Stacy Shulz and 18 students attended.

- **CAIGS visit, Department of Chemical Engineering and Applied Chemistry, April 07, 2009** We showcased our lab to the Canadian Association of Girls in Science.

- **Science Randez-vous, May 09, 2009 and 2010.** We participated and helped organize the demonstrations for the University-wide event focused on raising awareness about science. During Science Randez-vous, the University is open to the public and it is estimated that thousands of people bring their children to this even every year.

- **Let's Talk Science Lab Tours and Outreach, May 19, 2009 and 2010** Forty students grade 7-8 attended the lab tours. We showed them beating cardiac tissue and H&E stained slides of sectioned hearts.

- "Engineered Heart Tissue" presentation for Graduate Recruitment weekend Department of Chemical Engineering and Applied Chemistry, Jan 28th, 2011

- "Cardiac Tissue Engineering" presentation to the **Club for Undergraduate Biomedical Engineering**, University of Toronto, October 17, 2011

- **Galbraith Society Mentor**, University of Toronto, mentoring 4 undergraduate students 2011-2012

- "Engineered Heart Tissue", Department of Chemical Engineering and Applied Chemistry, University of Toronto, **Research Days**, Jan 26th, 2012

- "Managing students, time and money" presentation to **Prospective Professors in Training Program**, University of Toronto, Faculty of Applied Science and Engineering, January 30th, 2012

- "Developing therapies for replacing damaged heart tissue vs. endogenous repair", **Let's Talk Science**, Stem Cell Talks, Toronto, ON, March 09th, 2012

- 2013 Featured on " **Canadian Women of Innovation**" web-site created by the Canada Science and Technology Museum in Ottawa, Ontario, Canada in partnership with Engineers Canada

  http://www.women-innovation.technomuses.ca/

- " Tissue engineering vs endogenous healing for spinal cord injury" Debate, Let's Talk Science, Stem Cell Talks, Toronto, ON, March 07th, 2014

- 03/2014 Featured in #30in30: 30 Women in Engineering in 30 days again this year in celebration of National Engineering Month by Women in Science and Engineering. Milica Radisic featured on March 18th .
  http://scieng-women-ontario.ca/en/features/30in30/march-18-milica-radsic/

- BME 1450 Tissue Engineering and Biomaterials Theme Presentation, University of Toronto, Sept 2014

- Chemical Engineering Research Days, University of Toronto, February 9th, 2015

- "Tissue Engineering" Track One Presentation, University of Toronto, January 15th, 2015

- **CAIGS visit, Department of Chemical Engineering and Applied Chemistry, December 09th, 2015** We showcased our lab to the Canadian Association of Girls in Science.

3.9 SELECTED MEDIA FEATURES

1. "Heart tissue is grown from rat heart cells" Associated Press, Dec 14, 2004
2. "Heart patch pulses like the real thing" – study Reuters, Dec 14, 2004
3. "Beating heart tissue grown in lab" BBC News, Dec 15, 2004
4. "Electrical Signals Key to Culturing Heart Tissue" Scientific American, online, Dec 14, 2004
5. "MIT grows beating heart tissue" Boston Globe, Dec 14, 2004
6. "Engineeres grow heart tissue that mends broken hearts" MIT TechTalk Dec 15, 2004
7. "Rebuilding broken hearts" The Toronto Star, Sept 27th , 2004
8. "How to fix a broken heart in ten easy steps" The Varsity, Apr 17th, 2003
9. "Tissue engineering: The beat goes on" Nature, Feb 27;421(6926):884-6. 2003
10. "Rebuilding Site: Bioactive scaffolds combine physical support with biological activity" WellcomeScience Issue 2, pg 10-11, March 2006,
11. Brochure, Department of Chemical Engineering, McMaster University (Fall 2005); Interfaces, Department of Chemical Engineering, University of Toronto (Spring 2006).
12. "Transplants made to order" The Scientist, 20 (9) 35, Sept 2006
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20. Featured in the 2007-2009 Report by the Heart and Stroke Richard Lewar Centre of Excellence
21. Interview with Serbian daily newspaper "Politika", 04/04/2009
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23. "Help for Broken Hearted" PEO Engineering Dimensions Magazine, September/October 2009, p. 44
24. "U of T researchers define barriers to successful heart cell transplants", University of Toronto News, October 22, 2009
25. "25 Ideas that are changing the world" by the Toronto Life Magazine, December 2009 (Idea# 13 featured on the cover)
26. Interview on CanadaAM December 03, 2009
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28. "Scientist to Watch Milica Radisic: Mending Broken Hearts", The Scientist, June 2010
29. "Mentoring: On the right path" Nature, 474:667-669, June 2011
30. "How to fix Canada", Sharp, Canada's Largest Magazine for Men, September, 2011
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    http://www.timeshighereducation.co.uk/story.asp?storyCode=416178&sectioncode=26
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    c. University of Toronto Bulletin, August 02, 2012
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45. Fountain of Youth story, related to Kang et al Journal of American College of Cardiology 2012 featured on:

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French: http://www.vice.com/en_ca/read/vice-du-jour-31-aot-sam-patch-boxe-et-science-censure
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medical.net, August 29th, 2015

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160. “Injectable tissue patch may help repair damaged organs”, United Press International, August 14th, 2017

161. “Injectable bandages mend broken hearts”, Naked Scientist, August 16th, 2017

162. TGRI Publication Award, top 10 leading impactful papers from the Cardiovascular group for Montgomery et al Nature Materials 2017

163. “U of T partners with National Research Council to create national innovation hub for microfluidics”, November 26th, 2018

164. Global dreams realized in Canada” Nature vol 528, April 2019 https://www.nature.com/articles/d42473-019-00118-3

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166. “Down to the Wire UHN researchers engineer a model heart to test drugs for heart disease”, UHN News, Jan 22 2019 Picked up by STAT News

167. “Prof. Milica Radisic receives Ontario Professional Engineers Research and Development” Medal Posted May 6th, 2019 by Department of Chemical Engineering and Applied Chemistry, University of Toronto

168. “Five U of T Engineering professors and alumni receive Ontario Professional Engineers Awards” by Carolyn Farrell, MAY 6, 2019 UNIVERSITY OF TORONTO ENGINEERING NEWS

169. “How does COVID-19 invade our bodies so easily? U of T Engineering team uses ‘organ-on-a-chip’ model to find out” By Paul Fraumeni APRIL 8, 2020, University of Toronto Engineering News

170. “How does COVID-19 invade our bodies so easily? Researchers use 'organ-on-a-chip' model to find out.” Medicalexpress.com April 10th, 2020

171. “How ‘organ-on-a-chip’ models help us understand COVID-19 infections”, April 23rd, 2020, The Engineering Newsletter, University of Toronto

172. “Canada’s Most Eminent Scholars Honoured Through the Killam Program”, The Canada Council for the Arts, May 26th, 2020

173. "Prof. Milica Radisic named Massey College 2020-21 Senior Member", June 19th, 2020

174. "Skin-care product based on UpfT engineering research donated to healthcare workers fighting covid19" October 13th, 2020 UofT Engineering News

175. "Professor Milica Radisic honoured by Faculty with Safwat Zaky Research Leader Award", Chem Eng News, April 09th, 2021

176. "Organ-on-a-chip research identifies new strategy for treating health complications associated with COVID-19", Engineering News, March 21st, 2022

177. "What Is an Organ-on-a-Chip?", Clinical Lab Manager, March 29th, 2022

Lu et al ***Lab-on-a-Chip***, 22, 1171-1186, 2022

178. Covid19 Story, Aired on May 06th, 2022
https://www.youtube.com/watch?v=99iOnpd3B98

Mohammadi MH, et al ***Advanced Biology****, 6*, e2101165, DOI: 10.1002/adbi.2021011652022, 2022 (cover article)

179. Ventricle story, Aired on July 29th, 2022
https://www.utoronto.ca/news/reverse-engineering-heart-u-t-researchers-create-bioartificial-left-ventricle

180. Ventricle story is featured in Advanced Science news:
https://www.advancedsciencenews.com/science-in-pictures-3/

181. Engineering Health Groundbreakers video aired on Nov 22nd, 2023
https://www.youtube.com/watch?v=RQYOY1K840c

182. Featured in Defy Gravity (and Ottawa Citizen) from the following UofT story:

183. https://bioinnovation.utoronto.ca/engineering-human-tissue-to-improve-surgery-recovery-times-milica-radisic/

3.10 HIGHLIGHTED ARTICLES

- Radisic et al 2004 highlighted on the cover of *Proc Natl Acad Sci USA* 101 (52)
- Radisic et al 2004 featured in *Advancing Tissue Science and Engineering*, a strategic plan of the Multi-Agency Tissue Engineering Science (MATES) Working Group of the National Science and Technology Council (NSTC)
- Park et al 2005 highlighted by the Editor in *In Vitro Cell Dev Biol Animal* 41(7) 2005
- Radisic et al 2006 featured on the cover of *Tissue Eng* 12(8) 2006
- Radisic et al 2006 review article in the International Journal of Nanomedicine is the only article made free by the Editor and Publisher of this journal.
- Cardiac tissue engineering work featured on the NIBIB web-site May 31, 2006 http://www.nibib.nih.gov/HealthEdu/PubsFeatures/eAdvances/31May06
- Cardiac tissue engineering work was highlighted at the NIBIB Council by the Director Roderic I. Pettigrew (Spring 2006)
- Freed et al *Tissue Eng*, 2006 review paper was the 3rd most read article in the journal for the period June 2006-June 2007
- October 2008 Blueprint for Growing Heart Tissue: Our research on electrical field stimulation was featured

in "Advancing Tissue Science and Engineering", the strategic plan for tissue science and engineering, prepared by the Multi-Agency Tissue Engineering Science (MATES) Interagency Working Group of the National Science and Technology Council (NSTC). This document is a strategic plan for US Federal Government investments in tissue science and engineering. NSTC is a cabinet-level council by which the US President coordinates science, space and technology policies across the Federal Government. http://www.tissueengineering.gov/welcome-s.htm

- Brown et al article published in *Biotechnology Progres*s was one of the **top 10 downloaded articles** from the journal web-site in the month of January 2009. As a result Biotechnology Progress featured our article (Brown et al) in their e-mail on Friday, January 30, 2009
- Plouffe et al Lab on a Chip 2009 listed as **Hot Article** on journal web-site, Spring 2009
- Song et al PNAS 2010 featured in Vascular Biology Publications Alert by North American Vascular Biology Organization on March 23, 2010
- Song et al PNAS 2010 in Cell Therapy News on November 23, 2009
- Radisic et al Tissue Engineering 2009 republished in book on Advances in Tissue Engineering
- Chiu et al Molecular Bioscience 2010 got the issue's **Frontispiece**
- Vunjak-Novakovic G et al "Challenges in tissue Engineering" was one of most downloaded articles in *Tissue Engineering* journal for December 2010
- Chiu et al Tissue Engineering Part A 2011 got the June **Cover**
- Bhana et al Biotechnology & Bioengineering got the June **Cover** in 2011
- Zhang et al *Nanotechnology* has been downloaded 250 times in one month since on-line publication on Dec 09th. To put this into context, across all IOP journals 10% of articles were accessed over 250 times in the last quarter of 2011.
- Al-Haque et al Macromolecular Bioscience 2012 got the October **Cover**
- Leng et al Advanced Materials 2012 featured in *Lab on a Chip* Research Highlights, August 2012
- Leng et al Advanced Materials 2012 got the July 17, 2012 **Cover**
- Iyer et al Biofabrication 2012 featured in the journal's Highlight's Collection during 2012
- Nunes et al Nature Methods 2013 highlighted by SciBX 6(29); doi:10.1038/scibx.2013.774: "Platform for maturation of human pluripotent stem cell–derived cardiomyocytes"
- Xiao et al Lab on a Chip 2014 selected as a HOT article by the journal and featured on the cover.
- Zhang et al Science Advances 2015 featured in The Scientist magazine. "Next Generation: Cell-Covered Fastener", *The Scientist*, August 31st, 2015
- Zhang et al Nature Materials, 2016 highlighted in Nature Reviews Materials. "A hearty chip", by Stoddart A, *Nature Reviews Materials,* doi:10.1038/natrevmats.2016.26, 1: 2016
- Zhang et al Nature Materials, 2016 highlighted in "Tissue engineering: Scalable vascularized implants" by Zheng Y, Roberts MA. *Nature Materials*, 15:597-9, 2016
- Davenport-Huyer et al Acta Biomaterialia 2016 highlighted in "CNT-polyester scaffolds do not miss a beat", *Materials Today*, January 31st, 2016
- "Ways to patch a broken heart", Science, vol. 357, p.1110, 2017
- Zhao et al Cell, 2019 highlighted in Parker KK "Designer Assays for Your Sick, Subdivided Heart" *Cell* 176: 684-685, 2019
- Rashedi et al: "Collagen scaffold enhances the regenerative properties of mesenchymal stromal cells" *PLOS ONE* 2017, was among the top 10% most cited papers published in 2017
- Zhao Y et al "A platform for generation of chamber-specific cardiac tissues and disease modeling"
- Cell 2019 featured in "Scientists Create Platform to Grow Heart Tissue" *Circulation* 2019;139:2278–2279. DOI: 10.1161/CIRCULATIONAHA.119.041065
- Ahadian S et al "Organ-On-A-Chip Platforms: A Convergence of Advanced Materials, Cells, and Microscale Technologies" *Advanced Healthcare Materials*, 2017 was named one of the top cited articles in 2018-2019 published in the journal
- Lai et al"A well-plate based multiplexed platform for incorporation of organoids into an organ-on-a-chip system with a perfusable vasculature", *Nature Protocols*, 1-32, March, 2021 featured on the Nature Protocols web site.

- Lu RXZ, Lai BFL, Rafatian N, Gustafson D, Campbell SB, Banerjee A, Kozak R, Mossman K, Mubareka S, Howe KL, Fish JE, Radisic M, "Vasculature-on-a-chip platform with innate immunity enables identification of angiopoietin-1 derived peptide as a therapeutic for SARS-CoV-2 induced inflammation", ***Lab-on-a-Chip***, 22, 1171-1186, 2022 Recognized as a HOT paper in Lab-on-a-Chip
- Students who wrote this paper: D'Costa K, Kosic M, Lam A, Moradipour A, Zhao Y, Radisic M: "Biomaterials and Culture Systems for Development of Organoid and Organ-on-a-Chip Annals of Biomedical Engineering" ***Annals of Biomedical Engineering***, 48: 2002-2027, 2020 were recognized by **BMES Athanasiou Student Prize**
- KT Wagner, TR Nash, B Liu, G Vunjak-Novakovic, M Radisic: "Extracellular Vesicles in Cardiac Regeneration: Potential Applications for Tissues-on-a-Chip" ***Trends in Biotechnology***, https://doi.org/10.1016/j.tibtech.2020.08.005, 39, 755-773, 2021 recognized as TOP of 2021

3.11 RESEARCH FUNDING

Agency	**Total amount**	**Period**	**Annual Amount for MR**	**Project Title/PI**
National Institutes of Health (NIH) (USA)	US$1,520,000 ($117, 258 for MR)	2005-2010	$23,542	Engineering Vascularized Myocardium PI: G. Vunjak-Novakovic
Ontario Research Development Challenge Fund (ORDCF)	$6,099,250 ($150,019 for MR)	2005-2009	$37,505	Advanced Regenerative Tissue Engineering Centre (ARTEC) PI: J. Semple, K. Woodhouse +4 others "Tissue engineering of a functional cardiac patch based on peptide modified chitosan scaffold" **PI: M. Radisic**
University of Toronto Connaught Start-Up Award	$10,000	2005-2007	$5,000	Advanced Bioreactor for Functional Tissue Engineering **PI: M. Radisic**
CFI Leaders Opportunity Fund / ORF-RI	$281,875	2006-2008	$140,937	Laboratory for Functional Tissue Engineering PI: M. Radisic

NSERC Discovery Grants -Individual	$98, 000	2006-2010	$24,500	Advanced Bioreactors for Functional Tissue Engineering of Myocardium **PI: M. Radisic**
New Staff Matching Grant Connaught Fund, University of Toronto	$30,000	2006-2008	$15,000	Resident Cardiac Progenitor Cell for Tissue Engineering Applications **PI: M. Radisic**
Dean of Medicine-New Staff Grants, University of Toronto	$10,000	2006-2011	$2,000	Photocrosslinkable biomaterial for cell injection and cardiac tissue engineering **PI: M. Radisic**
Turner Biosystems Grants Program	$3,800	2007	$3,800	Turner Biosystems Fluorometer (TSB-380) Grant PI: C. Simmons
American Health Assistance Foundation National Heart Foundation	$60,000 ($12,000 for MR)	2007-2009	$6,000	Microscale Isolation of Cardiac Progenitor Cells PI: S. Murthy
CFI Leading Edge Fund	$18,000,000 ($321,432 for MR)	2007-2010	$107,144	The Regenerative Medicine Project PI: R. Weisel
CFI Infrastructure Operating Fund	$33,825	2007-2010	$11,275	Laboratory for Functional Tissue Engineering **PI: M. Radisic**

CIHR Regenerative Medicine and Nanomedicine Team Grant	$2,287,690 ($65,354 for MR)	2006-2011	$13,071	The Cardiac Regeneration (CARE) Project PI: R. Weisel
Heart and Stroke Foundation (Grant-in-Aid)	$ 156,521	2007-2010	$52,174	"Peptide modified photocrosslinkable chitosan for cell therapy in myocardial infarction" **PI: M. Radisic**, Co-Is: R-K Li, M Rupnick
Juvenile Diabetes Research Foundation Innovative Grant	$107,848	2007-2008	$107,848	"*In vitro* model system for cardiac cell therapy in diabetic patients" **PI: M. Radisic**, co-PI: P. Zandstra
Early Researcher Award Ministry of Research (ERA) and Innovation, Ontario	$100,000 (ERA) $50,000 (University of Toronto matching)	2007-2012	$30,000	"Functional cardiac patch based on resident cardiac progenitor cells" **PI: M. Radisic**
Ontario Centers of Excellence	$ 33,716	2008-2009	$ 33,716	"Biomaterials with growth factor gradients for cardiac cell therapy" **PI: M. Radisic**, Co-PI: M. Shoichet
NSERC Research Tools and Instrumentation	$112,390	2008-2009	$112,390	Real Time PCR for Advanced Tissue Engineering PI: M. Shoichet; Co-Is: C. Morshead, M. Radisic

Heart and Stroke Foundation (Grant-in-Aid)	~$718,500 (~$70,000 for MR)	2009-2013	$17,500	"Interrogating the cardiomyogenic hierarchy to optimize cardiovascular cell therapy" PI: P. Zandstra; Co-I: M. Husain, K. Nanthakumar, M. Radisic
NSERC CREATE	$1,650,000	2009-2015	Student scholarships awarded on competitive basis	NSERC CREATE Program in Microfluidic Applications and Training in Cardiovascular Health PI: M. Sefton +9 Co-Is (C. Simmons, A. Guenther, M. Radisic etc.)
CFI New Initiatives Fund/ORF	$9,374,885 (all for common facility)	2009-2012	$0	Centre for Microfluidic Systems in Chemistry and Biology PI: M. Sefton, A. Guenther
NSERC Strategic Projects	$422,000	2009-2012	$140,667	"Engineering vascular networks by site specific differentiation of angiogenic progenitor cells" **PI: M. Radisic**, co-I: M. Sefton, W. Stanford
HSFO Grant-in-Aid	$249,277	2010-2014	$62,319.35	"Chitosan hydrogel with immobilized growth factors for cell therapy in myocardial infarction" **PI: M. Radisic**, co-I: R-K Li
NSERC Discovery Grant	$270,000	2010-2015	$54,000	"Cardiac tissue engineering and cell separation" **PI: M. Radisic**

NSERC Discovery Accelerator Supplement	$120,000	2010-2013	$40,000	"Processing and design criteria for engineering artificial tissues" **PI: M. Radisic**
ORF GL2	$6,641,774 ($480,000 for MR)	2009-2013	$120,000	"Cardiovascular biomarker discovery in disease and development through predictive precision proteomics (CBD3P3)" PIs: P. Liu and G. Keller, co-Is: A. Gramolini, T. Kislinger, P. Zandstra, M. Radisic, S. Mital, J. Coles
NIH RO1	$1,384,974 ($147,600 for MR)	2010-2014	$36,900	Microfluidic Cell Separation for Tissue Engineering and Regenerative Medicine PI: S. Murthy, co-I. R. Carrier, M. Radisic, V. Sales/J. Mayer, Y. Nahmias/M. Yarmush
NSERC-CIHR CHRP	$444,765	2010-2014	$111,191	Tissue engineered patches for the repair of cardiovascular congenital malformations **PI: M. Radisic** Co-I: Li R-K, Stanford WL
Connaught Fund, University of Toronto	$60,000	2011	$60,000	Application of QHREDGS peptide in survival and expansion of human stem cells and their cardiovascular progeny **PI: M. Radisic**
NSERC Engage	$24,985	2011	$24,985	Peptide functionalized bone implant coatings for improved osteogenesis **PI: M. Radisic**

Canada Research Chair (Tier 2)	$500,000	2011-2016	$100,000	Functional Cardiovascular Tissue Engineering **PI: M. Radisic**
CFI-LOF	$150,000	2013	$150,000	Laboratory for Cardiovascular Tissue Engineering **PI: M. Radisic**
ORF	$150,000	2013	$150,000	Laboratory for Cardiovascular Tissue Engineering **PI: M. Radisic**
NIH UH2	$1,560,000 ($0 for MR)	2012-2017	$0 (it turned out money was not allowed to leave USA)	Integrated heart-liver-vascular systems for drug testing in human health and disease PI: G. Vunjak-Novakovic CO-Is: C. Chen S. Bhatia K. Hirshi (M. Radisic)
NIH RO1	$2,098,047 ($423,845 for MR)	2013-2018	$84,769	Engineering Vascularized Myocardium PI: G. Vunjak-Novakovic Co-I: M. Radisic
NSERC I2I	$123,950	2012 -2013	$123,950	Device for cell separation based on manipulation of settling velocity **PI: M. Radisic**

NSERC CREATE	$1,650,000	2013-2018	Student scholarships awarded on competitive basis	NSERC CREATE training program in manufacturing, materials and mimetics (M3) PI: M. Shoichet (+9co-PIs including Radisic)
CIHR Operating Grant	$523,039	2013-2017	$130,760	Engineering Microenvironments for Cardiac Regeneration PI: M. Raidisc Co-I: K. Nanthakumar, G. Keller
McLean Award	$100,000	2013-2020	$25,000	Cardiovascular tissue engineering
Peter Munk Cardiac Center Innovation Committee	$257,000 ($65,000 for MR)	2013-2014 ($65,000 for MR)	$65,000	Personalized Antiarrhythmic Therapy using iPS cells in a Novel Arrhythmia in Dish Technique PI: K. Nanthakumar Co-I: M. Radisic, G. Keller, P. Backx
E.W.R. Steacie Memorial Fellowship	$250,000 research grant +$60,000 salary support	2014-2016	$125,000 grant and $30,000 salary	E.W.R. Steacie Memorial Fellowship
NSERC RTI	$149,854	2014-2016	$149,854	Light sheet microscopy for studies of fractal tubulogenesis PI: M. Radisic
CIHR Operating Grant	$546,590	2014-2018	$136,647	Injectable functional tissues: a perfect marriage of tissue engineering and minimally invasive delivery

NSERC Discovery Grant	$285,000	2016-2021	$57,000	Biomaterial processing for organ-on-a-chip Engineering PI: M. Radisic
NSERC Discovery Grant	$9,120	2020-2021	$9,120	Biomaterial processing for organ-on-a-chip Engineering (COVID Supplement) Radisic
National Research Council of Canada	$57,800.00	2019-2021	$57,800.00	3D Printing of Biowire
NSREC CREATE	$1,650,000	2016-2022	$300,000	Training program in organ-on-a-chip engineering and entrepreneurship (TOeP) PI: M. Radisic and 10 colleagues from IBBME, Chem Eng and MIE
NSERC CREATE	$60,000	2020-2021	$60,000	Training program in organ-on-a-chip engineering and entrepreneurship (TOeP) (COVID Supplement) Radisic
NSERC Engage	$25,000 +$15,000 industrial contribution +$40,000 in kind	2015	$25,000	Platform technologies for podocyte in vitro cultivation PI: M. Radisic
Ontario Institute of Regenerative Medicine-New Ideas Grant	$50,000	2015-2016	$25,000	Mechanical Interlock Technology for Scalable Assembly of Injectable Cardiac Patches In vivo PI: M. Radisic

Heart and Stroke Foundation, Grant-in-Aid	$274,593	2016-2019	$91,532	Mobilizing epicardial cells for enhanced integration of human cardiac patches PI: M. Radisic
NSERC-CIHR Collaborative Health Research Program	$298,575	2016-2019	$99,525	Platform technology for maturation of human stem cell derived cardiomyocytes and cardiotoxicity screening PI: M. Radisic
NSERC RTI	$149,911	2016-2018	$149,911	Advanced platform to characterize the mechanical and structural properties of natural and engineered soft biomaterials PI: C. Simmons
NSERC RTI	$140,618	2016-2018	140,618	“Key Characterization and Synthesis Tools for Defined Polymeric Hydrogels to Guide Cell Fate” PI: M. Shoichet
Canada Research Chair	$500,000	2016-2021	$100,000	CRC in Functional Cardiovascular Tissue Engineering (Tier II) PI: M. Radisic
CFI Innovations Fund/ORF/Quebec	$10,587,979	2018-2022	$6,500,000	Ontario-Quebec Centre for Organ-on-a-Chip Engineering PI: M. Radisic

NSERC RTI	$150,000	2017	$150,000	An integrated incubator-microscope for cell manipulation and measurement PI: Yu Sun
NSERC CRD	$107,000	2017-2019	$53,500	Technology for high fidelity podocyte cultivation PI: M. Radisic
University of Toronto/UHN	$60,000	2016-2018	0	EMH Seed - Rescue of resident macrophages with biomaterials after myocardial infarction PI: K. Nanthakumar
NSERC Strategic Partnership Grants	$544,434	2017 2018 2019	$183,636 $179,704 $181,094	Additive manufacturing of organs-on-a-chip using biodegradable elastomeric polymers PI: M. Radisic Co-PI: D. Juncker
NSERC Strategic Partnership Grants	$29,104.64	2020-2021	$29,104.64	Additive manufacturing of organs-on-a-chip using biodegradable elastomeric polymers (COVID Supplement) Radisic
Rogers Strategic Initiative Projects	$1,000,000	2018-2020	$80,000	Precision therapeutics for MYH7 and MYBPC3 associated cardiomyopathies PI: J. Ellis Co-Is: M. Radisic, S. Mital, C. Simmons, P. Billia

Heart and Stroke Foundation Grant-in-Aid	$246,463	2018-2021	$91,532	Harnessing the body's inherent molecular defense to develop new antimicrobial and immunomodulatory polymers for cardiac and surgical applications PI: M. Radisic Co-I: S. Epelman
NSERC RTI	$147,116	2018-2020	$150,000	Enabling the discovery and development of functional materials and technologies via confocal rheometry PI: A. Ramchandran Co-I: M. Radisic, E. Acosta, E. Young
University of Toronto-University of Manchester joint research fund	GBP £5,000 (UoM funding) and CAD $8,500 (U of T funding).	2019	$8,500	Collaboration with Manchester University M. Radisic & Sarah Cartmell
NSERC RTI	150,000	2019	$150,000	Everyday Tools for Biomaterials for Protein Release PI: M. Shoichet
CFI IOF	$1,251,566	2019-2021	$353,190	Ontario Quebec Center for Organ-on-a-Chip engineering PI: M. Radisic

NIH RO1	$2,000,000	2019-2020	$270,000	Engineering vascularized cardiac muscle PI: G. Vunjak-Novakovic Co-I: M. Radisic
CIHR Foundation Grant	$1,529,338	2019-2027	$200,000	Heart-on-a-chip for modelling of healthy and diseased myocardium PI: M. Radisic
CIHR Foundation Grant	$22,787.00	2020-2021	$22,787.00	Heart on a chip for modelling of healthy and diseased myocardium COVID19 supplement
National Research Council of Canada	$57,800.00	2019-2021	$57,800.00	3D Printing of Biowire
NSERC RTI	$149,825	2020-21	$149,825	A bioAFM for intracellular, cellular, and tissue measurement and manipulation PI: Yu Sun
NSERC RTI	$150,000	2021-2023	$150,000	Equipment for biomechanical characterization of organ-on-a-chip devices M. Radisic
NSERC Alliance	$50,000	2020-2022	$50,000	Developing organ-on-a-chip models of covid19
ISI Connaught Fund	$100,000	2020-2021	$100,000	CRAFT-Driven Next Generation Microfluidic Diagnostic Tests for COVID-19
Killam Fellowship	$140,000	2020-2021	$70,000	Heart-on-a-chip delivers on the promise of personalized medicine

CRCEF	$31,376.88	2020-2021	$31,376.88	CRCEF Supplements for Closed Funds - Faculty of Applied Sciences and Engineering
NFRF	$249,995.00	2021-2023	$0	Reconstruction of a diseased lung using bioengineering approach PI: H Zhang
Canada Research Chairs	$1,400,000	2022-2029	$200,000	Canada Research Chair in Organ-on-a-Chip Engineering PI: M. Radisic
CRAFT Project Award	$210,000	2021-2023	$110,000	Kidney-on-a-chip model for studies of antibody mediated rejection PI: M. Radisic Co-PI: A. Konvalinka
NSERC Discovery	$470,000	2022-2027	$94,000	Engineering granular and metamaterial structures from biodegradable and biocompatible polyester elastomers PI: M. Radisic
Stem Cell Network Impact Award	$250,000	2022-2024	$140,000	Stem cell derived resident cardiac macrophages in designer polymers for cardiac repair and regeneration PI: M. Radisic Co-PIs: G. Keller, S. Epelman, M. Laflamme
NSERC I2I	$124,840	2022-2023	$124,840	Phase I: High throughput fabrication of fractal cell culture substrates
Canada First Research Excellence Fund-CFREF	$519,000 Cash (direct and indirect)- $ $199,570,433 Matching - $318,238,507 (Cash - $260,094,532, in-kind $58,143,975)	2023-2030	In setup	Acceleration Consortium: Self-Driving Labs for Molecular and Materials Discovery PI: Alan Aspuru-Guzik Co-Is: Milica Radisic, Helen Tran, Florian Shkurti, Cheryl Arrowsmith, Avi Goldfarb, Jason Hein, Michelle Murphy, David Sinton, Anatole von Lilienfeld,

Canada Foundation for Innovation/ Ontario Research Fund – Biosciences Research Infrastructure Fund (CFI/ORF-BRIF)	$85,148,695	2023-2026	All for CL3 infrastructure	Toronto High Containment Facility PI: Scott Gray-Oven, Co-Is: Milica Radisic, Haibo Zhang, Samira Mubareka, Leah Cowen, Slava Epelman, Anne-Claude Gingras, Jean-Philippe Julien, Tak Mak, Mario Ostrowski
Amgen	$104,265	2023-2023	$75,265	Miniaturized High Density Recombinant CHO Cultures Protein Engineering
P&G	$40,464.00	2023-204	$28,902.86	Anti-Microbial coatings for Hygienic Surfaces
NSERC RTI	$150,000	2023-2024	All for common equipment	X-ray Irradiator for Tissue Engineering Applications PI: Terry Salchos Co-I: Milica radisic
Ted Rogers Centre for Heart Research & MITO2i Joint Innovation Fund – 2023 Seed Grant	$100,000	2023-2026	In setup	Macrophage support of cardiomyocyte mitochondrial homeostasis underlies enhanced function of human bioengineered cardiac microtissues PI: S. Epelman, co-I: M. Radisic
NIH RO1	$2,600,000 in total	2023-2027	In setup	Engineering vascularized cardiac muscle Vunjak-Novakovic
NSERC CREATE	$1,650,000	2023-2029	In setup	NSERC CREATE in Cell and Engineering Approaches to Preserve and Rejuvenate Organs (CEAPRO) PI: Michael Sefton, Sonya MacParland

4. TEACHING

4.1 COURSES

Role/Period	Subject/curriculum	Duties/Purpose
Instructor Winter 2020 Winter 2023	JTC1332H Organ-on-a-chip Engineering CHE1334 Organ-on-a-chip Engineering	This graduate course focuses on the latest developments in the field of Organ-on-a-Chip Engineering, with a specific focus on Organ-on-a-Chip Industry. The course consist of a 2 hour weekly lecture that include hands-on demonstration from industry as well as the discussion of the current literature. Reading material in the form of research publications, relevant to the topic presented that week is assigned each week. Topics related to on-chip engineering of heart, kidney, cancer, vasculature and liver were discussed.
Instructor Winter 2017 Winter 2018 Winter 2023	CHE 416 Chemical Engineering in Human Health	The course provides an overview of areas in which chemical engineers provided a transformative contributions to the human health: e.g. tissue engineering, biomaterials, cell expansion, development of antibiotics etc
Instructor Fall 2011	BME496/BME455 Cellular and Molecular Bioengineering	Taught engineering methodologies to characterize cellular behavior and the rational modification of cells to become part of systems that solve biomedical problems
Instructor Fall 2010 Fall 2013 Fall 2018	JTC 1331 Biomaterials	Coordinated and taught in a multi-instructor graduate course focused on biomaterials, host response and applications of biomaterials in tissue engineering and regenerative medicine
Instructor Winter 2010 Winter 2011 Winter 2012 Winter 2014	CHE210 Heat and Mass Transfer (2^{th} year course, 120 students)	Taught fundamentals of heat and mass transfer: conduction, diffusion, convection, steady state and transient problems, 1D and 2D. Heat exchangers. Convective heat/mass transfer coefficient correlations. Simultaneous heat and mass transfer. Mass transfer between phases.
Instructor Winter 2007 Winter 2008 Fall 2009	CHE466 Bioprocess Engineering (4^{th} year course, 28 students)	Designed a new tissue culture laboratory. Taught material relevant to bioreactor design, fermentations, bioseparations, tissue culture and waste-water treatment.
Instructor Winter 2007 Winter 2008 Winter 2010 Winter 2011 Winter 2013	BME105 Systems Biology (1^{st} year course, 270 students)	Taught a course section covering material in cell biology (cell structure, cell membrane and transport across the membrane)
Instructor	CHE353 Engineering Biology (3^{rd}	Designed a course section to examine cell structure and

Fall 2005	year course, 180 students School of Engineering)	transport across cell membrane
Teaching Lab Supervisor 2007-2008	IBBME Teaching Lab Faculty Supervisor	IBBME offers labs for 18 different courses to over 1000 students. Roles to ensure 1) that all safety certificates are in place 2) that the labs are scientifically and practically sound and 3) that the cost is within the allocated budget.
Guest Lecturer Winter 2007 Winter 2008	BME395 Molecular Bioengineering (3rd year course, ~70students)	Gave 2 hrs of lectures on cardiac tissue engineering: advances and challenges
Guest Lecturer Winter 2008 Winter 2009 Fall 2009	**BME1450 Introduction to Bio-Engineering** (Graduate Course, IBBME ~100 students)	Gave 1 hr lecture on cardiac tissue engineering
Guest Lecturer Winter 2009 Winter 2012	**PPIT** Prospective Professors in Training	Managing students, time and money
Guest Lecturer Winter 2013	**PSL 462/PSL 1462** Molecular Aspects of Cardiac Physiology	Human pluripotent stem cells and cardiomyocytes
Teaching Assistant Fall 2003	Introduction to Chemical Engineering, MIT (Instructors: Sawin/Stephanopoulos)	Help session instruction, preparation of homework and test solutions, exam review sessions (20hr/week)

4.2 THESIS COMMITTEES

Date	Role	Student/Department	Student's supervisor
14.06.2023	**PhD Committee Meeting**	Alex Boshart	A. Konvalinka
06.04.2023	**PhD Qualifying Exam**	Rick Lu, IBBME	M. Radisic
26.05.2023	**PhD Committee Meeting, Member**	Chris Ahuja, IMS	M. Fehlings
23.05.2023	**PhD Committee Meeting**	Si (Jenny) Tou	T. Chau
30.03.2023	**PhD Committee Meeting**	Gayatri Prakash, IBBME	M. Shoichet
16.03.2023	**MASc Committee Meeting**	Yanbo (Michael) Wang	C. dos Santos
21.02.2023	**MASc Committee Meeting**	Andrea Zito, General and Thoracic Surgery	A. Pierro
19.01.2023	**PhD Committee Meeting**	Jessica Zi Qi Lin, ChemEng	B. Cox
21.12.2022	**PhD Committee Meeting**	Rick Lu, IBBME	M. Radisic
11.22.2022	**PhD Qualifying Exam**	Salma Emara, Electrical & Computer Engineering	B. Lai
11.22.2022	**PhD Committee Meeting**	Joseph Sebastian, IBBME	C. Simmons
21.10. 2022	**PhD Committee Meeting**	Durgesh Kavishvar	A. Ramchandran
17.10.2022	**ByPass Exam**	Lauren Banh, IBBME	S. Viswanathan
29.09.2022	**PhD Committee Meeting**	Christoph Haller, IBBME	M. Laflamme
21.09.2022	**PhD Qualifying Exam**	Sargol Okhovatian, ChemEng	M. Radisic
24.08.2022	**MASc Qualifying Exam**	Samantha Stuart, IBBME	F. Gu
26.07.2022	**PhD Qualifying Exam**	Mariya Shtil, IBBME	F. Gu
21.06.2022	**PhD Committee Meeting**	Alex Boshart	A. Konvalinka
04.05.2022	**PhD Committee Meeting**	Karl Wagner, IBBME	M. Radisic
05.04.2022	**PhD Committee Meeting**	Karl Wagner, IBBME	M. Radisic
03.22.2022	**PhD Committee Meeting**	Chuan Mary Liu	M. Radisic

02.09.2022	**PhD Qualifying Exam**	Gayatri Prakash, ChemEng	F. Gu
01.27.2022	**PhD Qualifying Exam**	Xuebin Feng, ChemEng	H. Zhang
12.20.2021	**PhD Committee Meeting**	Bhakti Pandey, ChemEng	H. Zhang
12.17.2021	**PhD Committee Meeting**	Christopher Oldfield, Physiology	A. Gramolini
11.23.2021	**PhD Committee Meeting**	Joseph Sebastian, IBBME	C. Simmons
11.12.2021	**PhD Committee Meeting**	Christoph Haller, IBBME	M. Laflamme
11.05.2021	**PhD Committee Meeting**	Sina Kheiri	C. Simmons
10.20.2021	**PhD Qualifying Exam**	Ben Fook Lai, IBBME	M. Radisic
10.12.2021	**PhD Qualifying Exam**	Anastasia Korolj, ChemEng	M. Radisic
10.05.2021	**MASc Committee Meeting**	Samantha Stuart	F. Gu
10.01.2021	**PhD Qualifying Exam**	Erika Wang, IBBME	M. Radisic
09.07.2021	**PhD Qualifying Exam**	Katrina Vizely, IBBME	M. Radisic
09.01.2021	**PhD Qualifying Exam**	Mohammad Hossein Mohammadi	M. Radisic
08.10.2021	**PhD Committee Meeting**	Rick Lu, IBBME	M. Radisic
08.06.2021	**PhD Qualifying Exam**	Erika Wang, IBBME	M. Radisic
08.05.2021	**PhD Qualifying Exam**	Anastasia Korolj, ChemEng	M. Radisic
08.04.2021	**PhD Committee Meeting**	Durgesh Kavishvar	A. Ramchandran
08.03.2021	**PhD Qualifying Exam**	Ben Fook Lai, IBBME	M. Radisic
06.29.2021	**PhD Committee Meeting**	Alex Boshart	A. Konvalinka
07.06.2021	**PhD Committee Meeting**	Katrina Vizely, IBBME	M. Radisic
06.29.2021	**PhD Committee Meeting**	Alex Boshart	A. Konvalinka
06.15.2021	**PhD Qualifying Exam**	Neal Callaghan, IBBME	C. Simmons
04.23.2021	**PhD Committee Meeting**	Mohammad Hossein Mohammadi	M. Radisic
04.14.2021	**PhD Committee Meeting**	Erika Wang, IBBME	M. Radisic
03.26.2021	**PhD Qualifying Exam**	Andrew Laskary, IBBME	M. Laflamme
03.16.2021	**PhD Committee Meeting**	Neal Callaghan, IBBME	C. Simmons
03.12.2021	**PhD Committee Meeting**	Dawn Bannerman, IBBME	M. Radisic
03.10.2021	**PhD Committee Meeting**	Jenny Siu, PRISM	T. Chau

03.03.2021	**PhD Committee Meeting**	Homaira Hamidzada, Immunology	S. Epelman
02.26.2021	**PhD Qualifying Exam**	Ratna Varman, IBBME	T. Waddell
02.24.2021	**PhD Qualifying Exam**	Chuan Mary Liu	M. Radisic
18.12.2020	**PhD Committee Meeting**	Alex Boshart	A. Konvalinka
30.10.2020	**PhD Qualifying Exam**	Ericka Knee-Walden, IBBME	M. Radisic
28.10.2020	**PhD Qualifying Exam**	Ratna Varman, IBBME	T. Waddell
30.09.2020	**PhD Qualifying Exam**	Marianne Wauchop, IMS	P. Backx
09.25.2020	**PhD Qualifying Exam**	Sina Kheiri, Mechanical and Industrial Engineer	E. Kumacheva
09.11.2020	**PhD Qualifying Exam**	Ryan Hickey	A. Pelling
09.10.2020	**PhD Committee Meeting**	Andrew Laskary, IBBME	M. Laflamme
22.09.2020	**PhD Committee Meeting**	Joseph, Sebastian, IBBME	C. Simmons
26.08.2020	**PhD Qualifying Exam**	Virginie Coindre, IBBME	M. Sefton
07.08.2020	**PhD Qualifying Exam**	Hadel Al Asafen, ChemEng	M. Radisic

24.07.2020	**PhD Committee Meeting**	Neal Callaghan, IBBME	C. Simmons
22.07.2020	**PhD Committee Meeting**	Homaira Hamidzada, Immunology	S. Epelman
10.07.2020	**PhD Qualifying Exam**	Ryan Joseph Hickey	A. Pelling
08.07.2020	**PhD Committee Meeting**	Dawn Bannerman, IBBME	M. Radisic
02.06.2020	**PhD Committee Meeting**	Mohammad Hossein Mohammadi	M. Radisic
17.04.2020	**PhD Committee Meeting**	Christoph Haller, IBBME	M. Laflamme
19.03.2020	**PhD Qualifying Exam**	Karl Wagner, IBBME	M. Radisic
13.03.2020	**PhD Committee Meeting**	Rick Lu, IBBME	M. Radisic
11.03.2020	**PhD Committee Meeting**	Ben Fook Lai, IBBME	M. Radisic
04.03.2020	**PhD Committee Meeting**	Virginie Coindre, IBBME	M. Sefton
28.02.2020	**PhD Committee Meeting**	Marianne Wauchop, IMS	P. Backx
12.02.2020	**PhD Committee Meeting**	Erika Wang, IBBME	M. Radisic
13.02.2020	**PhD Committee Meeting**	Ratna Varman, IBBME	T. Waddell
20.01.2020	**MASc Qualifying Exam**	Ka Ho Chan, ChemEng	C. Jia
20.12.2019	**PhD Qualifying Exam**	Jeremy Wong, IBBME	Craig Simmons
19.12.2019	**MASc Qualifying Exam**	Katya D'Costa, IBBME	P. Santerre
17.12.2019	**PhD Committee Meeting**	John Lu, IBBME	M. Shoichet
24.09.2019	**PhD Committee Meeting**	Richard Cheng, IBBME	A.Guenther
20.09.2019	**PhD Committee Meeting**	Christoph Haller, IBBME	M. Laflamme
10.09.2019	**PhD Committee Meeting**	Anastasia Korolj, ChemEng	M. Radisic
30.08.2019	**MASc Qualifying Exam**	Serena Mandla, IBBME	M. Radisic
28.08.2019	**PhD Qualifying Exam**	Nimalan Thavandiran, ChemEng	M. Radisic
16.08.2019	**PhD Qualifying Exam**	Yimu Zhao, ChemEng/IBBME	M. Radisic

06.08.2019	**PhD Committee Meeting**	Andrew Laskary, IBBME	M. Laflamme
26.07.2019	**MASc Committee Meeting**	Jonathan Rubitano, TBEP	P. Santerre
12.07.19	**PhD Qualifying Exam**	Locke Davenport Huyer, ChemEng/IBBME	M. Radisic
14.05.2019	**PhD Committee Meeting**	Locke Davenport Huyer, ChemEng/IBBME	M. Radisic
09.04.2019	**PhD Committee Meeting**	Christoph Haller, IBBME	M. Laflamme
08.03.2019	**PhD Committee Meeting**	Ratna Varman, IBBME	T. Waddell
29.01.2019	**PhD Committee Meeting**	Marianne Wauchop, IMS	P. Backx
20.12.2018	**PhD Committee Meeting**	Mohsen Afshar, IBBME	M. Sefton
19.12.2018	**MASc Committee Meeting**	Serena Mandla, IBBME	M. Radisic
14.12.2018	**MASc Thesis Defense**	Gyu-Tae Kim, IBBME	B. Hinz
13.12.2018	**PhD Committee Meeting**	Mohammad Hossein Mohammadi	M. Radisic
07.12.2018	**PhD Committee Meeting**	Neal Callaghan,IBBME	C. Simmons
19.11.2018	**PhD Committee Meeting**	Anastasia Korolj, ChemEng	M. Radisic
09.11.2018	**PhD Committee Meeting**	Christoph Haller, IBBME	M. Laflamme
02.11.2018	**PhD Committee Meeting**	Dawn Bannerman, IBBME	M. Radisic
24.09.2018	**PhD Committee Meeting**	Virginie Coindre, IBBME	M. Sefton
24.09.2018	**PhD Committee Meeting**	Richard Cheng, IBBME	A.Guenther
13.09.2018	**PhD Qualifying Exam**	Darren Rodenhizer, ChemEng	A. McGuigan
12.09.2018	**PhD Committee Meeting**	Locke Davenport-Huyer, ChemEng/IBBME	M. Radisic
24.08.2018	**MASc Committee Meeting**	Stasja Drecun, IMS	C. Morshed

24.08.2018	**PhD Committee Meeting**	Gyu-Tae Kim, IBBME	B. Hinz
20.07.2018	**PhD Committee Meeting**	Elisa D'Arcangelo, ChemEng	A. McGuigan
19.07.2018	**PhD Qualifying Exam**	Nimalan Thavandiran, ChemEng	M. Radisic
11.07.2018	**PhD Qualifying Exam**	Samantha Payne, ChemEng	M. Shoichet
20.07.2018	**PhD Committee Meeting**	Elisa D'Arcangelo	A. McGuigan
11.07.2018	**PhD Qualifying Exam**	Samantha Payne, ChemEng	M. Shoichet
03.07.2018	**PhD Qualifying Exam**	Miles Montgomery, ChemEng/IBBME	M. Radisic
20.06.2018	**PhD Qualifying Exam**	Neal Callaghan, IBBME	C. Simmons
19.06.2018	**PhD Committee Meeting**	Marianne Wauchop, IMS	P. Backx
23.05.2018	**PhD Committee Meeting**	Ratna Varman, IBBME	T. Waddell
25.04.2018	**PhD Committee Meeting**	Mohsen Afshar, IBBE	P.E. Gilbert
07.03.2018	**PhD Committee Meeting**	Darren Rodenhizer, ChemEng	A. McGuigan
13.02.2018	**PhD Committee Meeting**	Samantha Payne, ChemEng	M. Shoichet
02.02.2018	**PhD Committee Meeting**	Jieun Kim, IBBME	P. Zandstra
29.01.2018	**PhD Committee Meeting**	Ben Fook Lai, IBBME	M. Radisic
26.01.2018	**PhD Committee Meeting**	Masood Khaksar, ChemEng	K.Mahadevan
20.12.2017	**PhD Qualifying Exam**	Marianne Wauchop, IMS	P. Backx
13.12.2017	**PhD Committee Meeting**	Erika Wang, IBBME	M. Radisic
08.12.2017	**PhD Committee Meeting**	Masood Khaksar, ChemEng	R. Mahadevan
29.11.2017	**PhD Qualifying Exam**	Rick Lu, IBBME	M. Radisic
27.11.2017	**PhD Committee Meeting**	Elisa D'Arcangelo, ChemEng	A. McGuigan
03.11.2017	**MASc Committee Meeting**	Stasja Drecun, IMS	C. Morshead

26.10.2017	**PhD Committee Meeting**	Ben Fook Lai, IBBME	M. Radisic
23.10.2017	**PhD Committee Meeting**	Neal Callaghan, IBBME	C. Simmons
17.10.2017	**PhD Committee Meeting**	Richard Cheng, IBBME	A. Guenther
02.10.2017	**PhD Committee Meeting**	Locke Davenport Huyer, ChemEng/IBBME	M. Radisic
28.09.2017	**PhD Qualifying Exam**	Ben Fook Lai, IBBME	M. Radisic
27.09.2017	**PhD Qualifying Exam**	Mohammad Hossein	M. Radisic
19.09.2017	**PhD Qualifying Exam**	Dawn Bannerman, IBBME	M. Radisic
19.09.2017	**PhD Committee Meeting**	Samantha Payne, ChemEng	M. Shoichet
08.09.2017	**PhD Committee Meeting**	Anastasia Korolj, ChemEng	M. Radisic
06.09.2017	**PhD Qualifying Exam**	Mohammad Hossein	M. Radisic
05.09.2017	**PhD Qualifying Exam**	Dawn Bannerman, IBBME	M. Radisic
05.09.2017	**PhD Committee Meeting**	Charlie Xu Chen	H.E. Naguib
18.08.2017	**PhD Committee Meeting**	Gyu-Tae Kim	B. Hinz
15.02.2017	**PhD Committee Meeting**	Miles Montgomery, ChemEng	M. Radisic
08.02.2017	**MASc Committee Chair**	Stasja Drecun, IMS	C. Moreshead
08.02.2017	**MASc Thesis Defense**	Genna Contant, ChemEng	M. Radisic
24.01.2017	**PhD Committee Bypass Chair**	Samantha Cheung, ChemEng	G. Allen
12.01.2017	**PhD Committee Meeting, Member**	Mohsen, Afshar, IBBME	P. Gilbert
05.01.2017	**PhD Defense, Member**	Yang Li, ChemEng	A. Ramchandran
20.12.2016	**PhD Qualifying Exam, Member**	Richard Cheng, IBBME	A. Gunether
16.12.2016	**PhD Qualifying Exam**	Ben Fook Lai, IBBME	M. Radisic
14.12.2016	**PhD Committee Meeting, Member**	Ratna Verma, IMS	T. Waddell

22.11.2016	**PhD Committee Meeting**	Anastasia Korolj, ChemEng	M. Radisic
22.11.2016	**PhD Committee Meeting, Chair**	Elisa Archangelo, ChemEng	A. McGuigan
16.11.2016	**PhD Defense**	Iran Rashedi, IBBME	A. Keating/M. Radisic
09.11.2016	**MASc Defense, Committee Member**	Patricia Omoruwa, IBBME	A.Guenther
04. 11.2016 17. 06. 2016	**PhD Committee Meeting**	Nimalan Thavandiran, ChemEng	P. Zandstra/M. Radisic
03.11.2016	**PhD Committee Meeting**	Locke Davenport-Huyer, ChemEng	M. Radisic
02.11.2016	**PhD Committee Meeting, Member**	Samantha Payne, ChemEng	M. Shoichet
03.10.2016	**PhD Qualifying Exam, Committee Member**	Marianne Wauchop, IMS	P. Backx
01.10. 2016	**MASc Thesis Defense, Chair**	Jessica Ngai, IBBME	M. Shoichet
29.08.2016	**PhD Committee Meeting, Member**	Chris Ahuja, IMS	M. Fehlings
05.07.2016	**PhD Committee Meeting**	Yimu Zhao, ChemEng	M. Radisic
08.06.2016	**PhD Committee Meeting, Member**	Jieun Kim, IBBME	P. Zandstra
26.04.2016	**PhD Cmt Chair**	Darren Rodenhizer, Chem Eng	A. McGuigan
22.04.2016	**SGS Defense**	Boyang Zhang, ChemEng	M. Radisic
12.04.2016	**PhD Committee Meeting**	Stephanie Fisher, ChemEng	M. Shoichet
27.11.2015 14.07.2015	**PhD qualifying exam** **PhD Committee Meeting**	Ratna Verma, IMS	T. Waddell

25.11.2015	**PhD qualifying exam**	Locke Davenport-Huyer, ChemEng/IBBME	M. Radisic
24.11.2015	**MASc Committee Meeting**	Genna Conant, ChemEng/IBBME	M. Radisic
20.11.2015	**PhD Committee Meeting**	Elisa Archangelo, ChemEng	A. McGuigan
15.10.2015	**MASc Committee Meeting**	Patricia Omoruwa, MIE	A.Guenther
02. 07. 2015	**M.A.Sc. Bypass Oral Examination, Cmt Chair**	N. Hilker, ChemEng	G. Evans
26. 05. 2015	**M.A.Sc Internal Thesis Reviewer**	Wei Jie Cao, IMS	H. Leong-Poi
30. 04.2015	**Ph.D. Committee Chair**	Darren Rodenhizer, ChemEng	A. McGuigan
27.04.2015	**Ph.D. Committee**	Stephanie Fischer, ChemEng	M. Shoichet
21.04. 2015	**Ph.D. Committee Meeting**	Kacey Ronaldson	A.G. Vunjak-Novakovic
13.03.2015	**Masters Defense**	Steve Mayers	A.J. Audet
27.03.2015	**Ph.D. Committee Meeting**	Boyang Zhang	M. Radisic
25.03.2015	**SGS Defense**	Kyle Battiston	P. Santerre
25.03.2015	**SGS Defense**	Lewis Reis	M. Radisic
17.02.2015	**Ph.D. Committee Meeting**	Miles Montgomery	M. Radisic
15.01. 2015	**M.A.Sc. Committee Meeting**	Steven Myers	J. Audet
12.01.2015	**M.A.Sc. Committee Meeting**	Zachary Laksman	P. Backx
18.12.2014	**Departmental Defense**	Kyle Battiston	P. Santerre
18.12.2014	**Departmental Defense**	Lewis Reis	M. Radisic
29.11.2014	**Ph.D. Committee Meeting**	Sarah Kwon	W. Stanford
26.11.2014	**Ph.D. Committee Meeting**	Haotian Chen	A.Guenther
05. 11. 2015 14.11.2014	**Ph.D. Committee Meeting** **Ph.D. Qualifying Exam**	Yimu Zhao, ChemEng,	M. Radisic
21.10.2014	**Ph.D. Qualifying Exam**	Aric Pahnke	M. Radisic
16.10.2014	**M.A.Sc. Bypass Committee**	Suraj Brokar	A. Ramchandran

	Member		
10.01.2014	**M.A.Sc. Defense Committee Member**	Arianna McAlister	A. Guenther
24.11.2015 05.09.2014	**Ph.D. Committee Meeting** **Ph.D. Committee Meeting**	Mohsen Afshar	P. Gilbert
22.08.2014	**M.A.Sc. Thesis Defense**	Haotian Chen	A. Guenther
20.08.2014	**M.A.Sc. Thesis Defense**	Phenix Qing Ba	A. Guenther
09.06.2014	**M.A.Sc. Committee Meeting**	Zachary Lacksman, IMS	P. Backx, G. Keller
17.06.2014	**Ph.D. Committee**	Stephanie Fischer, ChemEng	M. Shoichet
14.12.2015 21.09.2015 09.06.2014	**Ph.D. Defense** **Ph.D. Committee Meeting** **Ph.D. Committee Meeting**	Malgosia Pakulska, ChemEng/IBBME	M. Shoichet
04.03.2016 10.07.2015 23.05.2014	**Ph.D. Committee Meeting** **Ph.D.Committee Meeting**	Jieun Kim, IBBME	P. Zandstra
05.09.2014	**Ph.D.Committee Meeting**	Mohsen Afshar	P. Gilbert
22.08.2014	**M.A.Sc. Thesis Defense**	Haotian Chen	A. Guenther
20.08.2014	**M.A.Sc. Thesis Defense**	Phenix Qing Ba	A. Guenther
09.06.2014	**M.A.Sc.Committee Meeting**	Zachary Lacksman, IMS	P. Backx, G. Keller
23.05.2014	**Ph.D.Committee Meeting**	Jieun Kim	P. Zandstra
23.04.2014	**M.H.Sc.Committee Member**	Mohammadsadegh Mansouri	R. Mahadevan, K. Nanthakumar
22.04.2014	**M.A.Sc. Bypass Committee Member**	Darren Rodenhizer	A. McGuigan
14.09.2015 08.04.2014	**Ph.D Committee Meeting** **Ph.D.Committee Meeting**	Iran Rashedi	A. Keating, M Radisic
04.04.2013	**Ph.D. Defense Committee**	Kathy Ye Morgan, Tufts University	L. Black
21.10.2014	**Ph.D. Qualifying Exam**	Aric Pahnke	M. Radisic
16.10.2014	**M.A.Sc.Bypass Committee**	Suraj Brokar	Ramchandran

	Member		
10.01.2014	**M.A.Sc.Defense Committee Member**	Arianna McAlister	A. Guenther
29.11.2014	**Ph.D.Committee Meeting**	Sarah Kwon	W. Stanford
26.11.2014	**Ph.D.Committee Meeting**	Haotian Chen	A.Guenther
14.11.2014	**Ph.D. Qualifying Exam**	Yimu Zhao	M. Radisic
28.10.2013	**Ph.D.SGS Defense Committee Member**	Yuanfei Wang	M. Shoichet
24.09. 2013	**Ph.D. Committee Meeting**	Boyang Zhang	M.Radisic
24.09.2013	**M.H.Sc Committee Meeting**	Mohammadsadegh Mansouri	R. Mahadevan, K. Nanthakumar
16.09.2013	**Ph.D. Committee Meeting**	Kathy Ye Morgan, Tufts University	L. Black
19.07.2013	**Ph.D. Defense, SGS Chair**	Wanjuan Lin, Chemistry	M. Winnik
11.07.2013	**M.A.Sc. Defense**	Maria Jimena Loureiro	A. McGuigan
04.06. 2013	**M.A.Sc. Defense**	Jason Miklas	M. Radisic
18.04.2013	**Ph.D. Qualifying Exam**	Nimalan Thavandiran	P. Zandstra, M. Radisic
09.12.2013	**Ph.D. Committee Meeting**	Anton Mihic, IMS	R-K Li
05.12.2012 24.01.2013	**Ph.D. Committee Meeting**	George Eng, Columbia University	G. Vunjak-Novakovic
26.11.2012	**Ph.D. Departmental Defense**	Emma Circuicel, IBBME	M. Sefton
25.07.2013 04.10.2012	**M.A.Sc. Defense** **M.A.Sc.Committee Meeting**	Manseesha Rajora, IBBME	P. Santerre
18.01. 2016 13.11.2015 09.10.2015 28.09.2012	**SGS Defense** **Departmental Defense** **Ph.D. Committee Meeting** **Ph.D. Qualifying Exam**	Yun Xiao, ChemEng	M. Radisic
25.09.2012	**Ph.D. Committee Meeting**	Boyang Zhang, ChemEng	M. Radisic
17.06.2014 06.08. 2013 24.09.2012	**Ph.D. Committee Meeting** **Ph.D. Qualifying Exam**	Stephanie Fischer, ChemEng	M. Shoichet
18.09. 2012	**M.A.Sc. Thesis Defense, Chair**	Diana Chan, IBBME	M. Shoichet

17.09. 2012	**Committee Meeting**	Arianna McAlister, IBBME	A.Guenther
15.08.2012	**Master's Committee Meeting**	Mark Li, IBBME	M. Radisic
09.06.2014 21.06.2013 31.07.2012	**Ph.D.Committee Meeting** **Ph.D.Committee Meeting**	Malgosia Pakulska, IBBME	M. Shoichet
23.07.2012	**Ph.D Defense, External Appraisal**	Cassandra Gardner, Department of Chemistry, McMaster University	H. Stover
06.06.2012	**Departmental Ph.D. Oral**	Loriane Chiu, ChemEng	M. Radisic
18.08.2012	**Committee member**	John Soleas, IMS	McGuigan/T. Waddell
04.04.2011	**Ph.D. Committee Member**	Jon Rodness, IMS	R.-K. Li
30.11.2011	**Ph.D. Committee Meeting**	Iran Rashedi, IBBME	A.Keating/M.Radisic
01.11.2010	**Ph.D. Qualifying Exam**	Lewis Reis, IBBME	M. Radisic
20.10.2010	**M.A.Sc. Committee Member**	Derek Voice, IBBME	M. Sefton
08.02. 2010	**Ph.D. Defense (Senate) Committee Member**	Rohini Gupta, ChemEng	M. Sefton
18.02. 2010	**PhD Thesis Supervisor**	Katherine Chiang, IBBME	M. Radisic
14.01 2010	**Bypass Committee Member**	Brett Kamino, ChemEng	A.T. Bender
08.12. 2009	**M.A.Sc. Defence Committee Member**	Nafees Rahman, IBBME	P. Zandstra/M. Shoichet
23.10.2009 03.05.2007 23.10.2006	**Ph.D. Committee Member**	Wei Jia Wang, IBBME	J. Audet
19.11.2010 15.09.2010 20.11. 2009	**Senate Oral** **Departmental Defense** **Ph.D. Thesis Committee Member**	Omar Khan, ChemEng	M. Sefton
07.10.2009	**SGS Ph.D. Committee Chair**	Rama Natarajan, Computer Science	R. Zemel
05.10. 2009 04.05. 2009	**Ph.D. Committee** **Committee Member** **Departmental Defense Chair**	Ian Parrag, ChemEng	A.K. Woodhouse

01.09. 2009	**Ph.D. Defense Committee Member**	Irena Barbulovic-Nad, IBBME	A. Wheeler
25.08.2015 17.08.2015 29.04.2011 18.11.2010 20.08.2009	**SGS Defense** **Departmental Defense** **Ph.D. Committee Meeting** **Ph.D. Qualifying Exam** **M.A.Sc. Defense Committee Chair**	Anne Hsieh, ChemEng	M. Radisic M. Radisic M. Shoichet
10.08. 2009	**M.A.Sc. Defense Supervisor**	Fiona Rask, ChemEng	M. Radisic
03.01.2011 27.10.2010 24.06.2009 10.10.2006	**Senate Oral** **Departmental Defense** **PhD Committee Member**	Elaine Fok, IBBME	W. Stanford
12.06.2009	**M.A.Sc. Defense Internal Examiner**	Vanessa Scanga, IMS	M. Shoichet
17.11.2010 20.08.2010 01.03. 2010 28.05. 2009 13.12.2007 20.12.2006	**Senate Oral** **Departmental Defense** **Ph.D. Committee Member**	Brendan Leung, Chem Eng Appl Chem	W. Sefton
21.06.2013 20.05. 2009	**Ph.D. Committee Meeting** **Ph.D. Transfer Exam Committee Member**	Sarah Kwon, IBBME	W. Stanford
14.04.2011 02.12.2010 27.07.2010 21.04. 2009 2007	**Departmental Defense** **Ph.D. Committee Member** **Ph.D. Committee Member** **Ph.D. Committee Member** **Ph.D. Transfer Exam**	Elizabeth Pham, IBBME	K. Truong
20.04. 2009	**Bypass Exam**	David Lee, IBBME	W. Stanford R. Kandel
01.04.2010 11.03. 2008 19.12.2006	**Ph.D.Committee Member**	Soror Sharifpoor, IBBME	P. Santerre
22. 03.2010 09.03. 2009	**Ph.D. Committee Meeting** **M.A.Sc. Defense**	Loraine Chiu, ChemEng Appl Chem	M. Radisic M. Radisic
18.02. 2009 25.10.2007	**M.A.Sc. Defense** **M.A.Sc. Committee Meeting**	Melissa Brown, ChemEng Appl Chem/IBBME	M. Radisic

11.02. 2009	**M.A.Sc Defense**	Brandon Driscoll, IBBME	J. Audent
02.02. 2009 28.11.2007	**M.A.Sc. Defense** **M.A.Sc. Committee Meeting**	Jana Dengler, ChemEng Appl Chem/IBBME	M. Radisic
16.01. 2009	**M.A.Sc. Defense**	Fahad Chowdhury, ChemEng Appl Chem	M. Radisic
17.07. 2008	**M.A.Sc. Defense**	Heidi Au, ChemEng Appl Chem	M. Radisic
18.10.2010 10.12. 2009 19.06. 2008 27.03.2007	**Ph.D. Committee Meeting** **Ph.D. Committee** **Supervisor**	Rohin Iyer, IBBME	M. Radisic
06.01.2011 05.11. 2009 06.12. 2007 Jan 2006	**Senate Oral** **Ph.D.Committee Member** **By-pass Committee Member**	Patrick Blit, ChemEng Appl Chem	P. Santerre
29.11.2007	**Ph.D. Committee Meeting** **Chair**	Raheem Peerani,, Chem Eng Appl Chem	P. Zandstra
23.11.2007	**M. A. Sc. Committee Meeting** **Committee Member**	Amy Yuen, Faculty of Dentistry	C. McCulloch
30.10.2007	**M.A.Sc Thesis Defence** **Committee Chair**	Derek Watt, MIE, University of Toronto	C. Simmons
22.08.2007	**M.Sc. Committee Meeting** **Committee Chair**	Andy Hung, IBBME, University of Toronto	W. Chan
19.03.2007 26.02.2007 03.08.2006	**M.Sc. Thesis Defence** **Committee Member** **M.Sc. Committee Member** **M.Sc. Committee Member**	Gilbert Tang, IMS, University of Toronto	R-K Li
24.01.2007 26.10.2006	**Ph.D. Senate Defence,** **Examiner** **Ph.D. Departmental Defense,** **Examiner**	Cecilia Alperin, ChemEng Appl Chem, University of Toronto	K. Woodhouse
10.11.2006	**M. A. Sc. Thesis Defense** **Examiner**	Tayyab Khan, IBBME, University of Toronto	W. Stanford
18.10.2006	**M. A. Sc. Committee Meeting** **Committee Member**	Derek Watt, Mechanical and Industrial Engineering, Unversity of Toronto	C. Simmons

03.08.2006	**M.Sc. Committee Meeting Committee Member**	Gilbert Tang, IMS, University of Toronto	R-K Li
24.06.2006	**M.A.Sc Thesis Defense Examiner**	Jane Ennis, IBBME, University of Toronto	J.E. Davies
Sept 2005	**Examiner, M.Sc. Thesis**	Mark Butler, ChemEng, App. Chem., University of Toronto	M. Sefton
Sept 2005	**Examiner, M.Sc. Thesis**	Jennifer Morin, IBBME, University of Toronto	P. Zandstra
08.04.2010 17.02. 2010 Dec 2005	**Ph.D. Defense (Senate) Committee Member** **Ph.D. Defense (Departmental) Committee Member** **By-pass committee Examiner**	M. Doug Bowman, Dept. of Chem. Eng. And App. Chem., University of Toronto	M. Shoichet
Jan 2006	**M.Sc. Thesis Committee Member**	Christina Holmes, IBBME, University of Toronto	W. Stanford

4.3 RESEARCH TRAINING

4.3.1 Postdoctoral Fellows

Name	Dept.	Degree Sought	Project Title	Period
Hannah Song (co-supervised with Peter Zandstra)	**IBBME**	Post-Doc	In vitro model system for cardiac cell therapy	2007-2015
Aleksandra Urbanska	**IBBME**	Post-Doc	Peptide-chitosan scaffolds for cardiac tissue engineering	2008-2009
Aarash Sofla	**IBBME**	Post-Doc	Magnetic cell separation	2011-2012
Nicole Feric	**IBBME**	Post-Doc	Bone Implant Materials	2012-2016
Sara Vasconcelos-Nunes	**IBBME**	Post-Doc	Vascular tissue engineering	2011-2012
Dario Bogojevic	**IBBME**	Post-Doc	Microfludic Cell separation	2012-2014

Samad Ahadian	**IBBME**	Post-doc	Injectable tissues	2015-2017
Boyang Zhang	**IBBME**	Post-doc	Organ-on-a-chip engineering	2016-current
Houman Savoji	**IBBME**	Post-doc	3D Printing	2017-2020
Qinghua Wu	**IBBME**	Post-doc	Microfabrication of organ-on-a-chip devices	2018-current
Simon Pascual de Gil	**UHN**	Post-doc	Epicardial cell migration	2018-current
Locke Davenport Huyer	**IBBME**	Post-doc	Immunomodulatory elastomers	07/2019-current-07/2020
Naimeh Rafatian	**UHN**	Post-doc	Electrophysiology of cardiac biowires	01/2019-12 2020
Scott Campbell	**IBME**	Post-doc	3D printing of elastomeric microtubes	01/2020-06/2022
Shira Landau	**IBME**	Post-doc	Engineering vascularized cardiac muscle	09 2021-current
Ying Wang	**IBME**	Post-doc	Biomanufacturing CHO cells for antibody production	03/2023-current
Amid Shakeri	**IBME**	Post-doc	Bacterial adhesion on surfaces	03/2022-current
Yimu Zhao	**IBBME**	Ph.D.	Drug testing in cardiac tissues	2019
	IBBME	Post-doc	Biowire models	07/2019-01/2020 04/2021-current

4.3.2 Research Technicians and Associates

Name	Dept.	Degree Sought	Project Title	Period
John-Paul King	**IBBME**	Technician	Bioreactors for cardiac tissue engineering	2007-2008
Gordana Bulajic	**IBBME**	Technician	Lab maintenance	2009
Larry Meng	**IBBME**	Technician	Lab maintenance, Tissue engineering	2009-2011
Lan Dang	**IBBME**	Technician	QHREDGS peptide	2011-2012

Carol Laschinger retired	**IBBME**	Research Associate	QHREDGS Peptide	2012-2017
Erika J. Knee	**IBBME**	Research Associate	Cardiac tissue engineering	2013-2014
Elena Bajenova	**IBBME**	Research Associate	Cardiac tissue engineering	2017-2020
Lewis Reis	**IBBME**	Research Associate PT	Wound healing	2015-2016
Ericka Knee-Walden	**IBBME**	Research Associate	Disease modelling with Cardiac Biowires	2018-2021
Serena Mandla	**IBBME**	Research Associate	Wound healing	2019-2021
Christopher Dixon	**IBME**	Research Associate	Organ-on-a-Chip Engineering	07 2020-Nov 2021
Naimeh Rafatian	**IBME**	Research Associate	Organ-on-a-chip models of SARS-CoV-2 infection	2021-2022
Kaitlyn Ramsey	**IBME**	Research Associate	Microfluidic fabrication of elastomeric polymer spherical particles	2021-current
Mohammad Ali Azam	**UHN**	Research Associate	Functional properties of cardiac tissues	2022-current

4.3.3 Graduate Students

Name	Dept.	Degree Sought	Project Title	Period
Fahad Chowdhury (co-supervised with Dr. W. Stanford)	Chem Eng	M.A.Sc.	Engineering vascular networks based on flk1+ progenitors and immobilized VEGF	09/2006-01/2009
Heidi Au	Chem Eng	M.A.Sc.	Interactive effects of surface topography and electrical field stimulation	09/2006-07/2008
Melissa Brown	Chem Eng IBBME	M.A.Sc.	Microfluidic cell separation	09/2006-02/2009
Jana Dengler	Chem Eng IBBME	M.A.Sc.	*In vitro* model system for myocardial cell therapy	09/2006-02/2009

Fiona Rask	Chem Eng	M.A.Sc.	Injectable peptide modified hydrogel for cardiac cell therapy	09/2007-08/2009
Rohin Iyer	IBBME	Ph.D. M.A.Sc.	Cell tri-culture for cardiac tissue engineering	03/2007-11/2011 09/2005-03/2007
Loraine Chiu	Chem Eng	Ph.D. M.A.Sc.	Angiogenic scaffolds	05/2009-10/2012 09/2007-05/2009
Devang Odedra (co-supervised with Dr. M. Shoichet)	Chem Eng Collab IBBME	M.A.Sc	Scaffolds with growth factor gradients	09/2008-02/2011
Katherine Chiang (co-supervised with Dr. W. Stanford) Nurse	IBBME	Ph.D.	Site-specific stem cell differentiation	01/2009-01/2011
Nimalan Thavandiran (co-supervised with P. Zandstra) CEO of startup	Chem Eng	Ph.D. M.A.Sc.	Cardiac microwires Bioreactors for cardiac tissue engineering	03/2012-current 09/2009-03/2012
Anne Hsieh Research Fellow Mount Sinai Hospital	Chem Eng	Ph.D.	Cell separation	09/2009-11/2015
Lewis Reis	IBBME	Ph.D.	Injectable hydrogels for myocardial cell therapy	09/2009-06/2015
Boyang Zhang	Chem Eng	Ph.D.	Microfluidic cell separation	09/2010-05/2016
Yun Xiao	Chem Eng	Ph.D.	Cardiac tissue engineering	09/2010-03/2016
Iran Rashedi (co-supervised with Dr. A. Keating)	IBBME	Ph.D.	Cardiac tissue engineering	09/2008-11/2016
Jason Miklas	IBBME	M.A.Sc.	hESC based cardiac tissue engineering	09/2011-06/2013

Mark Li (co-supervised with John Coles)	IBBME	M.A.Sc.	Ca handling in iPSC derived CM	09/2011-06/2013
Yimu Zhao	Chem Eng	Ph.D.	Drug testing in cardiac tissues	09/2012-07/2019
Aric Phanke	Chem Eng	Ph.D.	Modelling of cardiac disease using iPSC cardiomyocytes	09/2012-06/2017
Miles Montgomery	IBBME	PhD	Injectable tissue	09/2012-06/2018
Genevieve Conant	Chem Eng	M.A.Sc.	Cardiac tissues for drug testing application	09/2014-02/2017
Locke Davenport Huyer	Chem Eng	Ph.D.	Drug delivery from an injectable tissue	09/2014-06/2019
Anastasia Korolj	Chem Eng	Ph.D.	Fractal vascular networks	09/2015-current
Fook Lai	IBBME	Ph.D.	Angiotube	09/2015-current
Dawn Bannerman	Chem Eng	Ph.D.	Biomaterial adhesion to epicardium	09/2016-current
Rick Lu	IBBME	Ph.D.	Organ-on-a-chip engineering for pollution assessment	09/2016-current
Erika Wang	IBBME	Ph.D.	Disease modelling using biowires	09/2016-current
Mohammad Hosein Mohammadi	Chem Eng	Ph.D.	Bioprinting a heart ventricle	09/2016-current
Serena Mandla	IBBME	MASc	Wound Healing	09/2017-06/2019
Ruoxiao Xie	Tsinghua U	PhD	AngioChip	09/2017-08/2018
Karl Wagner	Chem Eng/ IBBME	PhD	Understanding the Role of Exosome-Mediated Signalling in Patient-Specific Models of Cardiac Injury-Regeneration	09/2018-Present

Joshua Jazbeck	ChemE	PhD	Organ-on-a-chip engineering	09/2019-current
Hadel Al Asafen	ChemE	PhD	Cardiac exosomes	09/2019-current
Mary Chuan Liu	ChemE	PhD	Kidney-on-a-chip	09/2019-current
Yufeng Shou	ChemE	MEng	Immunomodulatory polymers	09/2019-05/2020
Katrina Vizely	ChemE	MASC	Wound healing	09/2019-2021
Erica Knee-Walden	IBBME	PhD	Biowire models of hypertrophic cardiomyopathy	09/2019-current
Jacob Smith	Chem Eng	PhD	Heart-on-a-chip models of SARS-CoV-2 infection	09/2020-current
Sargol Okhovatian	IBME	PhD	Models of SARS-CoV-2 infection	09/2020-current
Jennifer Kieda	IBME	PhD	Metamaterial fabrication from polyester elastomer droplets	09/2021-current
Richard Jiang	IBME	PhD	Cell culture on granular materials	09/2023-current

4.3.4 Undergraduate Students

Name	Dept.	Degree Sought	Project Title	Period
Johana Salazar-Lazaro	MIT	Summer	Cardiac cell co-culture	09/2003-05/2005
Wenliang Geng	MIT	Summer	Oxygen gradients in cardiac tissue engineering	01/2003-06/2005
Ruth Misener	MIT	Summer	Cardiac tissue engineering	01/2003-01/2004
Sasha Kucharczyk	Univ Guelph	Summer	Image analysis for cell culture	07-08/2005
Irene Cheng	Chem Eng	Undergrad	Effect of contact guidance and electrical field stimulation on cell orientation and elongation	01-08/2006
Heidi Au	Chem Eng	Summer	Effect of contact guidance and electrical field stimulation on cell orientation and elongation	07-08/2006
Fahad Chowdhury	Eng Sci	Summer	Effect of contact guidance and electrical field stimulation on cell orientation and elongation	05-08/2006

Melissa Brown	Eng Sci	Thesis Summer	Pulsatile Perufsion Bioreactor for Cardiac Tissue Engineering	09/2005-08/2006
Filip Marinkovic	Middlebury College	Summer	Cardiac tissue engineering in perfusion bioreactors	07-08/2006 07-08/2007
Loraine Chiu	Chem Eng	Thesis Summer	Cell tri-culture for cardiac tissue engineering	05/2006-08/2007
Yi-Hao Alex Shen (co-supervised with Dr. M. Shoichet)	Eng Sci	Thesis Summer	Immobilized growth factors in cardiac tissue engineering	05/2006-05/2007
Ying Meng	Eng Sci	Summer	*In vitro* model system for cardiac cell therapy	05-08/2007
Jane Chui	Eng Sci	Summer	Cell tri-culture for cardiac tissue engineering	05-08/2007
Evelyn Mukwedeya	Eng Sci	Summer	Perfusion cultivation of cardiac tissues	05-08/2007
Zane Chu	Eng Sci	Thesis Summer	RT-PCR characterization of isl1 in neonatal rat heart cell preparations	05/2007-09/2008
Bashir Bhana (co-supervised with Dr. C. Simmons)	Chem Eng	Thesis	The influence of substrate stiffness on phenotype of heart cells	09/2007-04/2008
Mena Gewarges	Human Biol	Undergrad	Electrical Stimulation Bioreactors	09/2008-09/2009
Katarina Janic	Human Biol	Thesis	Chitosan scaffolds for cardiac tissue engineering	09/2009-08/2010
Kent Hyunh	Chem Eng	Summer Student	Injectable hydrogel for treatment of myocardial infarction	05/2010-08/2010
Shahed Al Haque	Eng Sci	Thesis Student	Micropatterning for cardiac tissue engineering	09/2010-04/2011
Jason Miklas	Materials Science	Thesis Student	Injectable hydrogel for treatment of myocardial infarction	09/2010-04/2011
Mark Li	Eng Sci	Thesis Student	Cardiac tissue engineering based on mouse ESC	09/2010-04/2011
Yan Liang	Chem Eng	Thesis Student	Vascular tissue engineering	09/2010-04/2011
Carlotta Peticone	Chem Eng	Thesis Student	Vascular tissue engineering in microfluidics	09/2011-04/2012
Kujaany Kana	York U.	Volunteer	Cardiac tissue engineering with electrical stimulation	09/2011-04/2012
Lara Fu	Eng Sci	Thesis Students	Sensor for electrical activity in biowires	06/2012-04/2013
Anastasia Korolj	Chem Eng	Thesis student	Biodegradable Elastomers	09/2014-05/2015
Stasja Drecun	Neuroscience	Undergraduate student	Biowire cardiac tissue	09/2014-05/2015
Raimundo Fernandes Moreira Filho	Chem Eng	Summer student	Mechanical stimulation	05/2014-08/2014

Steven Yin Liao	Chem Eng	Summer student	Microfabrication	05/2014-08/2014
Junhao Gu	Chem Eng	Summer student	Wound healing	05/2014-08/2014
Carolina Ferreira	Chem Eng	Summer student	Cardiac tissue engineering	05/2014-08/2014
Jesse Wang	Engineering Track I	Summer student	Cardiac tissue engineering	05/2014-01/2016
Shuting Lin	Chem Eng	Summer student	Microfabrication	05/2014-08/2014
Dawn Lin	MIE	Undergraduate student	Microfluidic cell separation	09/2015-01/2016
Julia Antonovich	Neuroscience	Undergraduate student	Wound healing	05/2015-05/2016
Akhil Patel	Eng Sci	Undergraduate student	Mechanical testing	01/2016-05/2016
Nathaniel Smith	McMaster Univ	Summer student	CNT loaded elastomeric scaffolds	05/2016-08/2016
Bess Ye	Chem Eng	Summer student	Elastomeric Polyesters	05/2016-08/2017
Serena Mandla	Eng Sci	Summer student	Engineering a heart ventricle	05/2016-05/2017
Charlie Seung	Eng Sci	Summer student	Biowire II	05/2016-08/2016
Lucie Kim	Biology	Undergraduate student	Tissue engineering	09/2016-05/2018
Friday Anighoro	Biology	Undergraduate student	Tissue engineering	09/2016-04/2017
Joshua Ilse	BME	Undergraduate student	Undergraduate mentor	09/2016-04/2017
Danica Jekic Medical school	McGill	Undergraduate student	Biowires	05-08/2017
Claire Velikonja	Eng Sci	Undergraduate student	Podocytes	05-08/2017
Ruonan Cao	Eng Sci	Undergraduate student	Biowires	05-08/2017
Bess Ye Scientist	Chem Eng	Undergraduate student	Macrophage response to new polymers	09/2017-05/2018
Thomas Benge	Chem Eng	Undergraduate student	Organ-on-a-Chip Systems to Study Pollution	09/2017-05/2018
Xinyao (Irene) Yu	Chem Eng	Undergraduate student	Kidney-on-a-Chip	09/2017-05/2018
Dawn Lin	Eng Sci	Undergraduate student	Antimicrobial polymers	09/2017-05/2018
Mary Chuan Liu	Chem Eng	Undergraduate student	Investigation of the effect of microfabricated channels on the vascularization of a cardiac patch	09/2018-09/2019
Nicholas Zhao	Chem Eng	Summer	Adhesive biomaterials	05/2018-08/2018

Suzie Song	Chem Eng	Thesis	Exosomes in podocyte culture	05/2019-04/2020
Marie Floryan	MIE	Thesis	Epithelial-mesenchymal transition of epicardial cells	05/2019-04/2020
Jacob Smith	Eng Sci	Thesis	Biowire models of fibrosis	05/2019-04/2020
Jessie Yangshuo Hu	Chem Eng	Thesis	inVADE model of pancreatic tumor	05/2019-04/2020
Sargol Okhovatian	Chem Eng	Thesis	3D printing of Biowire platform	05/2019-04/2020
Saifedine Rjaibi	Chem Eng	Summer	Exosomes in cardiac culture	05/2019-09/2020
Lynsey Steel	University of Mancheste r	Summer	Mechanisms of electrical stimulation	06/2019-07/2020
Matthew Chen	Chem Eng	Summer	Bioactive elastomers	05/2020-08/2020 05/2021-08/2021
Krisco Cheung	CHE	Thesis/Summer	Constructing Vascularized Heart-on-a-Chip Using Miniaturized Tissue Blocks	09/2022-08/2023
Richard Jiang	Arts & Science	Summer/Thesis	Fabrication of a Novel Granular Biomaterial From Monodispersed POMaC Particles	05/2022-08/2023
James Ryan Smit	Department of Electrical Engineeri ng, McMaster	Summer	Image analysis	05/2022-08/2022 05/2023-08/2023
Xinyi (Willow) Shen	Department of Health Science, McMaster University	Voluneer	Podocyte substrate preparation	09/2023-current
Eugene Alfonzo II ALTEZA	Specialist in Pharmacol ogy & Biomedica l Toxicolog y, UofT	Work-study	Biowire heart-on-a-chip	09/2023-current
Dana PARK	Chemistry, University of Toronto	Work-study	Polymer synthesis	09/2023-current
Luis Felipe JIMENEZ VARGAS	Genetics, University of Toronto	Work-study	Biowire heart-on-a-chip	09/2023-current

4.3.5 Visiting Scientists

Name	University	Period
Prof. Calum Redpath	University of Ottawa	Period training of PI and post-doc 2011
Prof. Cristina Martin	University of Salamanca, Spain	July-October, 2011
Prof. Javad Behravan	Mashhad University of Medical Sciences, Iran	July-December, 2011
Prof. Pascal Jonkheijm	University of Twente, Netherlands	July 2017- March 2018
Prof. Sachiro Kakinoki	Kansai University, Japan	November 2019 - June 2020
Prof. Makoto Furutani Seiki	Yamaguchi University, Japan	October 2019
Prof. Tokunaga Masayuki	Yamaguchi University, Japan	October 2019

4.3.6 High School Students

Name	Period
Pavle Kotarac	July-August, 2011
Sonia Sharma	July-August, 2012
Ramin Mirzaei	July-August, 2012
Tya Vine	Sept 2013-April 2014
Camilla Parpia	Sept 2013-April 2014
Andrew Yang	June-August 2017
Duncan Zayachowski	July-August 2020

4.4 TRAINEE AWARDS AND SCHOLARSHIPS

4.4.1 Post-doctoral Fellows

Student name	Award	Year
Hannah Song	● HSFC Post-doctoral Fellowship ● Stem Cell Network (SCN) bursary to participate in "Advanced Multi-colour Flow Cytometry" course	2010-2012 2010
Aarash Sofla	● MITACS Fellowship	Declined
Sara Nunes	● IBBME Best paper award for Nunes et al Nature Methods, 2013	2014
Houman Savoji	● FRQNT Post-doctoral Fellowship ● CIHR Post-doctoral Fellowship	2017-2018 2018-2020
Boyang Zhang	● Banting Post-doctoral Fellowship	2016-2018

Shira Landau	● Rotschield Post-doctoral Fellowship ● EMBO Post-doctoral Fellowship ● International Micro physiological Society travel award ● UHN Office of Research Trainees conference award	2021-2023 2023-2025 2023 2023
Qinghua Wu	● CIHR Post-doctoral Fellowship	2021-2024
Scott Campbell	● NSERC Post-doctoral Fellowship ● 1st Prize in TOeP Business Competition at CRAFT Symposium	2020-2022 2021
Yimu Zhao	● CIHR Post-doctoral Fellowship ● SYIS Scientific Excellence Award from TERMIS-AM ● Alice Wilson Award by Royal Society of Canada ● Travel Awards from EMBO Workshop: Building networks: engineering in vascular biology ● Childcare Grant from EMBO Workshop: Building networks: engineering in vascular biology	2022-2024 2023 2022 2022
Simon Pascual-Gil	● TGRI Post-doctoral Fellowship	2021-2022
Amid Shakeri	● NSERC Post-doctoral Fellowship	2023-2025

4.4.2 Graduate Students

Student name	**Award**	**Year**
Rohin K. Iyer	● Ontario Graduate Scholarship in Science and Technology (OGSST) ● Ontario Graduate Scholarship (OGS) ● Heart and Stroke/Richard Lewar Centre of Excellence Scientific Day- Best Poster Award ($1,000) ● IBBME Anna Jamieson Award ● 2008 TERMIS-NA Travel Award ● NSERC Canada Graduate Scholarship ● OCE International Scholarship	2005-2006 2006-2007 2007 2007 2008 2008-2011 2009
Jana Dengler	● Ontario Graduate Scholarship in Science and Technology (OGSST) ● NSERC Postgraduate Scholarship-M (PGS-M) ● Student Session Co-Chairs at 2010 TERMIS-NA ● Honorable Mention for Poster Presentation- IBBME Scientific Day 2010	2006-2007 2007-2008 2010 2010
M. Fahad Chowdhury	● Heart and Stroke Foundation Master's Studentship ● Heart and Stroke Richard Lewar Centre of Excellence Master's Studentship (declined) ● Ontario Graduate Scholarship in Science and Technology (declined) ● 2008 TERMIS-EU Travel Award ● 2008 ISSCR Travel Award	2007-2009 2007-2008 2007-2008
Loraine Chiu	● NSERC Canada Graduate Scholarship	2007-2009

	● Mary H. Beatty Fellowship ● NSERC CGS for Doctoral Studies ● One of 5 finalists of the 2 HSRLCE poster competition ● Inaugural Irving O. Shoichet Graduate Scholarship ● Queen Elizabeth II Graduate Scholarship ● NSERC Post-doctoral Fellowship	2008 2009-2012 2009 2011 2011 2012-2014
Heidi Au	● OGS (declined) ● Helen L. Cross Graduate Memorial Scholarship	2007-2008 2008
Fiona Rask	● NSERC Canada Graduate Scholarship	2007-2009
Devang Odedra	● Heart and Stroke/Ontario Graduate Scholarship in Science and Technology (OGSST) ● University of Toronto, Gordon Cressy Award	2009-2010 2010
Anne Hsieh	● NSERC CGS for Doctoral Studies ● MATCH Travel Grant ● MATCH Scholarship ● Best Poster Award MATCH Symposium ● MATCH Scholarship ● Doctoral completion grant ● Travel award for Till & McCulloch Meeting (by Stem Cell Network) in Ottawa, ON Oct. 27 -29	2009-2011 2011 2011-2012 2012 2012-2013 2013-2014 2014
Nimalan Thavandrian	● CIHR Master's Scholarship ● HSFC Master`s Scholarship ● MATCH Travel Grant ● SGS Travel Grant ● HSF Doctoral Fellowship ● Poster award Microtechnologies in Medicine and Biology, ● Poster award MATCH ● MATCH Scholarship ● Best Oral Presentation Award MATCH Symposium ● Irving O Shoichet Graduate Scholarship ● Heart and Stroke Richard Lewar Center of Excellence Graduate Scholarship ● Irving O. Shoichet Graduate Scholarship ● Edward Jarvis Tyrell Fellowship	2009-2010 2010-2012 2011 2011 2011-2013 2011 2011 2011-2012 2012 2013-2014 2014-2015 2014-2015 2016
Katherine Chiang	● Ontario Graduate Scholarship ● NSERC Postgraduate Scholarship D ● Student Session Co-Chairs at 2010 TERMIS-NA	2009-2010 2010-2013 2010
Lewis Reis	● Heart and Stroke Richard Lewar Centre of Excellence ● Queen Elizabeth II Graduate Scholarship ● NSERC Postgraduate Scholarship	2010-2011 2011-2012 2012-2015
Boyang Zhang	● MATCH Program Scholarship (NSERC CREATE) ● MATCH Program Scholarship (NSERC CREATE) ● Heart and Stroke Richard Lewar Center of Excellence Graduate Scholarship	2010-2011 2011-2012 2012-2013

	● Irving O Shoichet Graduate Scholarship ● MATCH Travel Grant ● NSERC CREATE M3 Scholarship ● Centre for Microfluidic Systems in Chemistry and Biology Sales Pitch, 1st Prize ● SGS Travel grant ● NSERC CREATE M3 Scholarship ● Irving O Shoichet Graduate Scholarship ● Nature Publishing Group travel award ● Canadian Biomaterials Society Travel Award ● Canada's Distinguished Dissertation Award in the category of Engineering/Medical Science/Natural Science by Canadian Association of Graduate Studies	 2012-2013 2013 2013-20142013 2013-2014 2014-2015 2014-2015 2014-2015 2014-2015 2016 2017
Yun Xiao	● Chinese Government Postgraduate Scholarship ● SGS Conference Travel Grant ● MATCH Travel Grant ● MATCH Travel Grant ● Heart and Stroke Richard Lewar Center of Excellence Graduate Scholarship ● Irving O. Shoichet Graduate Scholarship ● Student Discovery Award	2010-2014 2012 2013 2014 2014-2015 2014-2015 2015
Iran Rashedi	● Stem Cell Network (SCN) bursary to participate in "Advanced Multi-colour Flow Cytometry" course	2010
Mark Li	● Restracomp, SickKids Hospital	2011-2012
Jason Miklas	● CIHR Masters Scholarship ● Queen Elizabeth II Graduate Scholarship (declined) ● NSERC Canada Graduate Scholarship ● SGS Conference Travel Grant	2012-2013 2012-2013 2013-2014 2012
Miles Montgomery	● Queen Elizabeth II Graduate Scholarship ● NSERC Postgraduate Scholarship ● Irving O Shoichet Graduate Scholarship ● Centre for Microfluidic Systems in Chemistry and Biology Small Talks Competition, 1st Prize ● Vanier Canada Graduate Scholarship ● NSERC CREATE M3 Travel Award ● NSERC CREATE MATCH Travel Award ● SGS Travel Award ● Ontario Graduate Scholarship ● Ontario Graduate Scholarship ($15,000 per annum) ● Ontario-on-a-chip 1st Place Student Entrepreneur Pitch Competition ● Ontario-on-a-chip Finalist, Best Student Presentation ● IBBME Annual Research Conference, Best Student Presentation ● McMaster University, Selected as Top 150 Engineering Alumni ● The Professor Douglas Reeve Leaders of Tomorrow Award ($2,984) ● Ontario Graduate Scholarship	2012-2013 2013-2014 2012-2013 2013 2013-2017 2014-2015 2014-2105 2014-2015 2016-2017 2017-2018 2017 2017 2017 2017 2017 2017 2017-2018

	• NSERC TOeP best Pitch Award • Ontario-on-a-Chip Best Podium Presentation	2017 2017
Aric Pahnke	• MATCH Scholarship • MATCH Scholarship • MATCH Scholarship	2012-2013 2013-2014 2014-2015
Yimu Zhao	• Queen Elizabeth II Graduate Scholarship • OGS • NSERC Doctoral Scholarship • Rogers PhD Studentship	2012-2013 2013-2014 2014-2016 2016-2018
Genevieve Conant	• CIHR Masters Scholarship • Ontario Graduate Scholarship	2014-2015 2015-2016
Locke Davenport-Huyer	• CIHR CGSM Graduate Scholarship • SGS Travel Grant • Vanier Graduate Scholarship • NSERC TOeP best Pitch Award • Ontario-on-a-Chip Best Poster Award • NSERC M3 Travel Award • NSERC CREATE M3 Travel Award • ToEP Travel Award • SGS Conference grant	2015-2016 2016 2016-2019 2017 2017 2018-2019 2019-2020 2019-2020 2019-2020
Benjamin Fook Lai	• OGS Graduate Scholarship • NSERC Postgraduate Scholarship • NSERC M3 Travel Award • SGS Conference Grant • Doctoral Completion Award • •2nd prize at the CRAFT Symposium Poster Presentation	2015-2016 2016-2019 2018-2019 2018-2019 2020-2021 2022
Anastasia Korolj	• NSERC CREATE M^3 Graduate Scholarship • NSERC Canada Graduate Scholarship • NSERC TOeP best Pitch Award • NSERC M3 Travel Award • NSERC CREATE M3 Travel Award • TOeP Travel Award • Ontario Graduate Scholarship • NSERC PDF • Schmidt	2015-2016 2016-2019 2017 2018-2019 2019-2020 2019-2020 2020-2021
Robert Civitarese	• Ontario Graduate Scholarship • Ontario Graduate Scholarship • McLaughlin GSEF Award	2016-2017 2017-2018 2017-2018
Erika Wang	• Queen Elizabeth II Scholarship in Science and Technology • Ontario Graduate Scholarship • NSERC M3 Travel Award • SGS Conference Grant • Ted Rogers Research Education Fund PhD Award -Top Up • Doctoral Completion Award • NSERC CGS COVID19 extension	2016-2017 2017-2018 2018-2019 2018-2019 2020-2021 2020-2021 2020-2021

	• NSERC PDF	
Dawn Bannerman	• NSERC M3 Scholarship • NSERC Canada Graduate Scholarship • Best Presentation Award in the Regenerative Medicine Symposium • NSERC M3 Travel Award • Ontario Graduate Scholarship • NSERC CGS COVID19 Extension • OGS Scholarship • OGS Scholarship • NSERC CREATE Training Program in Organ-on-a-Chip Engineering and Entrepreneurship (TOeP) scholarship	2016-2017 2017-2020 2018 2018-2019 2020-2021 2020-2021 2021-2022 2022-2023 2022-2023
Mohammad Hossein Mohammadi	• NSERC M3 Scholarship • NSERC Postgraduate scholarship • NSERC M3 Travel Award	2016-2017 2017-2020 2018-2019
Rick Lu	• NSERC M3 Scholarship • NSERC Postgraduate Scholarship D • NSERC M3 Travel Award • SGS Conference Grant • NSERC COVID19 Extension • PRIME • Acceleration Consortium Post-doctoral Fellowship • NSERC Post-doctoral Fellowship (declined)	2016-2017 2017-2020 2018-2019 2018-2019 2020-2021 2021-2022 2023-2025 2023
Ruoxiao Xie	• Chinese Government Postgraduate Scholarship	2017-2018
Serena Mandla	• NSERC M3 Graduate Scholarship • Ontario Graduate Scholarship	2017-2018 2018-2019
Hadel Al Asafen	• Scholar at Risk Program • Scholar at Risk Program	2019-2020 2020-2021
Joshua Yazbeck	• CIHR CGSM	2019-2020
Katrina Vizely	• NSERC CGS-M • 2nd Prize in TOeP Business Competition at CRAFT Symposium	2020-2021 2021
Karl Wagner	• OGS Scholarship • OGS Scholarship • OGS Scholarship • TOeP Student Presentation 1st prize at the CRAFT Symposium • OGS Scholarship • 3rd Place in Business Pitch Competition, Centre for Research and Applications in Fluidic Technologies (CRAFT) Research Symposium	2019-2020 2020-2021 2021-2022 2021 2022-2023 2023
Chuan Mary Liu	• Kwok Sau Po Scholarship • 2nd prize at the CRAFT Symposium Poster Presentation	2021-2022 2021 2023

	• CRAFT TERMIS Award, Centre for Research and Applications in Fluidic Technologies (CRAFT) • Second Prize in Poster Presentation, CRAFT SymposiumNSERC CREATE • NSERC CREATE TOeP Scholarship	2023 2022-2023
Sargol Okhovatian	• Barbara and Frank Milligan Graduate Fellowship • OGS Scholarship • NSERC CGS • School of Graduate Studies (SGS) conference award • Society for Biomaterials (SFB) Student Travel Achievement Recognition (STAR)	2020-2021 2021-2022 2022-2025 2023 2023
Jacob Smith	• MITO2 Doctoral Fellowship	2021-2022
Jennifer Kieda	• Ontario Graduate Scholarship • CIHR CGS • CRAFT first prize in Poster Presentation Competition	2021-2022 2022-2025 2023

4.4.3 Undergraduate Students

Student name	**Award**	**Year**
Shahed Al-Haque	• CIHR Banting and Best CGS-Masters (declined)	2011
Yi-Hao Alex Shen	• NSERC Undergraduate Summer Research Award (USRA) • University of Toronto, Life Science Award	2006 2006
Loraine Chiu	• NSERC Undergraduate Summer Research Award (USRA)	2006
Jane Chui	• University of Toronto, Engineering Science Research Opportunity (ESROP) Award • Undergraduate Engineering Research Day 1st Place	2007 2007
Zane Chu	• NSERC Undergraduate Summer Research Award (USRA)	2007
Jason Miklas	• NSERC Undergraduate Summer Research Award (USRA) • Centennial Thesis Award • The highest average in Department of Materials Science and Engineering	2011 2011 2011
Yan Liang	• Centennial Thesis Award	2011
Lara Fu	• NSERC USRA	2012
Jesse Wang	• Faculty of Medicine, summer UROP Award	2014
Nathaniel Smith	• NSERC USRA	2016
Bess Yee	• NSERC USRA • NSERC USRA	2016 2017

Charlie Seung	● IBBME USRP	2016
Claire Velikonja	● Faculty of Medicine Undergraduate Research Opportunity Program (UROP)	2017
Danica Jekic	● NSERC USRA	2018
Yufeng Wang	● Chem Eng USRP	2018
Saifedine Rjaibi	● NSERC USRA	2019
Matthew Chen	● NSERC USRA	2020
University of Toronto Chemical Vehicle	● First place at the 2022 AIChE Northeast Regional Chem-E-Car competition	2021