

MILICA RADISIC
Curriculum Vitae

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1. GENERAL INFORMATION

1.1 CONTACT INFORMATION

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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

09/2011- current, Canada Research Chair (Tier 2)
03/2016-current, Senior Scientist, Toronto General Research Institute
07/2014-current, Professor, University of Toronto
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 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 infarcted 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 infarcted 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 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™) 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 (**TGRI**)

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

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

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

02/1998 **CSCHE Student Paper Award** (2nd Place) “The role of defoamers in brownstock washing”

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

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

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

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

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

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

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

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

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

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

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

04/2010 **NSERC Discovery Accelerator Supplement**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Feb 2017

2. PUBLICATIONS and TECH TRANSFER (h-index 45, 7200 citations by Google Scholar):

Journal impact factors for the year 2015 obtained from the ISI Journal Citation Reports for journals appearing on my publication list.

Journal	Impact Factor	Five Year Impact Factor	Ranking
ACS Nano	13.334	14.486	#9/271 MATERIALS SCIENCE, MULTIDISCIPLINARY
Acta Biomaterialia	6.008	6.589	#3/76 ENGINEERING, BIOMEDICAL
Advanced Drug Delivery Reviews	15.606	17.214	#3/253 PHARMACOLOGY & PHARMACY
Advanced Materials	18.960	18.862	#5/271 MATERIALS SCIENCE, MULTIDISCIPLINARY
American Journal of Physiology-Heart and Circulatory Physiology	3.324	3.579	#21/83 PHYSIOLOGY
Analytical Chemistry	5.886	5.922	#4/75 CHEMISTRY, ANALYTICAL
Annals of the New York Academy of Sciences	4.518	4.416	#8/63 MULTIDISCIPLINARY SCIENCES
Artificial Cells Blood Substitutes and Biotechnology	1.314	1.048	#50/76 ENGINEERING, BIOMEDICAL
Biofabrication	4.702	5.032	#6/76 ENGINEERING, BIOMEDICAL
Biomaterials	8.387	8.978	#2/76 ENGINEERING, BIOMEDICAL
Biomedical Materials	3.361	3.132	#12/76 ENGINEERING, BIOMEDICAL
Biomedical Microdevices	2.227	2.365	#28/76 ENGINEERING, BIOMEDICAL
Biomicrofluidics	2.708	3.033	#6/30 PHYSICS, FLUIDS & PLASMAS
Biochemical & Biophysical Research Communications	2.371	2.392	#35/72 BIOPHYSICS
Biotechnology Advances	9.848	11.847	#6/161 BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Biotechnology Progress	2.167	2.029	#33/124 FOOD SCIENCE & TECHNOLOGY
Biotechnology and Bioengineering	4.234	4.393	#24/161 BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Canadian Journal of Cardiology	3.312	3.033	#44/124 CARDIAC & CARDIOVASCULAR SYSTEMS
Circulation	17.047	16.202	#1/63 PERIPHERAL VASCULAR DISEASE
Circulation: Heart Failure	6.833	7.119	#10/124 CARDIAC & CARDIOVASCULAR SYSTEMS
Circulation: Arrhythmia and Electrophysiology	4.428	5.193	#24/124 CARDIAC & CARDIOVASCULAR SYSTEMS
Current Opinion in Biotechnology	8.314	8.417	#4/77 BIOCHEMICAL RESEARCH METHODS

Current Opinion in Chemical Engineering	3.571	3.810	#20/135 ENGINEERING, CHEMICAL
FASEB Journal	5.299	5.464	#7/86 BIOLOGY
Frontiers in Bioscience	3.736	3.082	#68/162 CELL BIOLOGY
Future Cardiology	NA	NA	NA
In Vitro Cellular & Developmental Biology-Animal	0.971	1.149	#176/187 CELL BIOLOGY
International Journal of Artificial Organs	1.005	1.373	#57/76 ENGINEERING, BIOMEDICAL
International Journal of Developmental Biology	1.753	2.263	#34/41 DEVELOPMENTAL BIOLOGY
International Journal of Nanomedicine	4.320	5.034	#40/253 PHARMACOLOGY & PHARMACY
Israel Journal of Chemistry	2.425	2.683	#64/163 CHEMISTRY, MULTIDISCIPLINARY
Journal of the American College of Cardiology	17.759	15.776	#1/124 CARDIAC & CARDIOVASCULAR SYSTEMS
Journal of Molecular and Cellular Cardiology	4.874	4.843	#19/124 CARDIAC & CARDIOVASCULAR SYSTEMS
Journal of Biomaterials and Tissue Engineering	1.217	1.439	#20/21 CELL & TISSUE ENGINEERING
Journal of Biomedical Materials Research Part A	2.841	3.160	#13/76 ENGINEERING, BIOMEDICAL
Journal of Biomedical Materials Research Part B- Applied Biomaterials	2.881	2.850	#17/76 ENGINEERING, BIOMEDICAL
Journal of Cardiovascular Pharmacology and Therapeutics	2.583	2.387	#52/124 CARDIAC & CARDIOVASCULAR SYSTEMS
Journal of Cardiovascular Translational Research	3.197	3.059	#41/124 CARDIAC & CARDIOVASCULAR SYSTEMS
Journal of Chemical Technology and Biotechnology	2.738	2.744	#28/135 ENGINEERING, CHEMICAL
Journal of Controlled Release	7.441	8.407	#9/253 PHARMACOLOGY & PHARMACY
Journal of Tissue Engineering and Regenerative Medicine	4.710	4.103	#5/76 ENGINEERING, BIOMEDICAL
Journal of the Serbian Chemical Society	0.970	0.997	#120/163 CHEMISTRY, MULTIDISCIPLINARY
Lab on a Chip	5.586	5.760	#8/77 BIOCHEMICAL RESEARCH METHODS
Langmuir	3.993	4.210	#34/163 CHEMISTRY, MULTIDISCIPLINARY

Macromolecular Bioscience	3.680	3.656	#11/85 POLYMER SCIENCE
Mayo Clinic Proceedings	5.920	6.590	#12/151 MEDICINE, GENERAL & INTERNAL
Methods	3.503	3.789	#18/77 BIOCHEMICAL RESEARCH METHODS
Nanotechnology	3.573	3.611	#24/145 PHYSICS, APPLIED
Nature Communications	11.329	12.001	#3/63 MULTIDISCIPLINARY SCIENCES
Nature Materials	38.891	45.772	#1/144 CHEMISTRY, PHYSICAL #1/271 MATERIALS SCIENCE, MULTIDISCIPLINARY #1/145 PHYSICS, APPLIED #1/67 PHYSICS, CONDENSED MATTER
Nature Methods	25.328	35.028	#1/77 BIOCHEMICAL RESEARCH METHODS
Nature Protocols	9.646	11.296	#2/77 BIOCHEMICAL RESEARCH METHODS
Philosophical Transactions of the Royal Society B- Biological Sciences	5.847	7.224	#6/86 BIOLOGY
PLoS One	3.057	3.535	#11/63 MULTIDISCIPLINARY SCIENCES
Proceedings of the National Academy of Sciences of the United States of America	9.423	10.285	#4/63 MULTIDISCIPLINARY SCIENCES
Regenerative Medicine	2.602	3.336	#20/76 ENGINEERING, BIOMEDICAL
Rheologica Acta	2.184	2.168	#25/135 MECHANICS
Science Translational Medicine	16.264	15.051	#2/124 MEDICINE, RESEARCH & EXPERIMENTAL
Seminars in Cell & Developmental Biology	5.181	5.758	#5/41 DEVELOPMENTAL BIOLOGY
Soft Matter	3.798	4.001	#9/79 PHYSICS, MULTIDISCIPLINARY
Stem Cell Research & Therapy	4.504	4.814	#21/124 MEDICINE, RESEARCH & EXPERIMENTAL
Stem Cells Translational Medicine	4.247	5.028	#5/21 CELL & TISSUE ENGINEERING
Tissue Engineering	3.892	4.451	#6/21 CELL & TISSUE ENGINEERING

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, 2001
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-Novakovic G, Langer RS, Radisic M (corresponding author): “A Photolithographic 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 β 4 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)
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5. **Radisic M**, Dallabrida SM, Rupnick MA: “Cell protective peptide and uses thereof”
 Provisional Patent Application filed with the US Patent and Trademark Office on August 28th, 2010

 PCT Filed on August 26th, 2011, Serial number PCT/CA2011/000969

 Patent Application filed with the US Patent and Trademark Office on February 26th, 2013 Serial number 13/819,055

 Patent Application filed with the Canadian Intellectual Property Office on Feb 21, 2013

 US Patent issued August 4, 2015 patent # 9,096,643

6. Invention Disclosure RIS #10002189, January 3, 2011
Radisic M, Shoichet M, Oedra D "Immobilized Biomolecule Gradients in Porous Scaffolds"

7. Invention Disclosure RIS#10002300
 Sofla AYN, Hsieh A, **Radisic M**: “ Device and method for label-free separation of material using magnetic field”;
 Provisional Patent Application filed with the US Patent and Trademark Office March 13th, 2012
 Serial number 61/610,075

 Patent Application filed with the Canadian Intellectual Property Office on March 13, 2013

 Patent Application filed with the US Patent and Trademark Office on March 13, 2013 Serial number 13/800,162

8. Invention Disclosure RIS #2295 disclosed July 4, 2011
 Thavandiran N, Zandstra P, **Radisic M**: “Self-Assembling Microtissue Screening Platforms”

 Provisional Patent Application filed with the US Patent and Trademark Office December 07th, 2013, Serial number 61/734,859, Application title: “Cardiac tissue constructs and methods of fabrication thereof” (optioned to CCRM)

9. Invention Disclosure RIS 2355 disclosed October 24th, 2011
Radisic M, Vasconcelos S, Xiao Y: “Self-Assembling Cardiac Tissue Around Template (biowire)”

10. Guenther A, Leng L, Wollard A, McAllister A, **Radisic M**, Zhang B: “Devices and methods for producing controlled heterogeneity in planar materials using microfluidics”

Provisional Patent Application filed with the US Patent and Trademark Office April 12th, 2012
Serial number 61/623,445

11. Invention Disclosure, March 2013
Thavandiran N, McEwan S, Zandstra P, **Radisic M**: “Microtissue platforms for precise control of tissue remodelling and force of contraction measurement” (optioned to CCRM)
12. Invention Disclosure, March 2013
Thavandiran N, McEwan S, Zandstra P, **Radisic M**: “Sandwich module for universal multi-well tissue culture plates” (optioned to CCRM)
13. Invention Disclosure #10002638, July 26, 2013.
Zhang B, **Radisic M**: “Microfluidic Tissue: A Biodegradable Scaffold with Built-in Branched Micro-Channel Network for Tissue Vascularization”
14. Invention Disclosure RIS #10002691, received on November 21, 2013.
Miklas J, Vasconcelos-Nunes S, Radisic M: “Protocol for Long Term Culture of Biowires”,
15. Invention Disclosure RIS #10002688, November 6, 2013
Zhao Y, Zhang B, Radisic M: “BioRod Plates for Force of Contraction Measurements in Biowires”
16. Invention Disclosure #10002687, received on November 6, 2013.
Xiao Y, Radisic M: “Microfabricated Perfusible Cardiac Biowire: a Platform that Mimics Native Cardiac Bundle”
- 17. Provisional Patent Application # 61/897, 276 filed with USPTO on October 30th, 2013**
Miklas J, Radisic M, Thavandiran N, Vasconcelos S, Xiao Y, Zhang B, Zhao Y “Platform for Cultivation of Tissue” (optioned to **TARA Biosystems**)
18. Disclosure Reference #10002764, received on 6/10/2014.
Miles Montgomery, Milica Radisic: “An Elastic Scaffold with Shape-Memory for Functional Tissue Delivery”
19. Disclosure Reference #10002796, received on 8/25/2014
Boyang Zhang, Miles Montgomery, Milica Radisic: “Tissue Velcro for Rapid 3D patterning of Functional Co-Cultures”
20. Miles Montgomery, Boyang Zhang, Milica Radisic: “MICROFABRICATED TISSUE SCAFFOLDS AND METHODS OF MAKING AND USING THE SAME.” **United States Provisional Patent filed on** October 22, 2014; converted to WO 96460 WO (316434) October, 2015 (optioned to **TARA Biosystems**)
21. Invention Disclosure 10002844, November 27, 2014
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”
22. 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” PCT Utility Patent Filed on October 28th, 2014 US61/897,276 (optioned to **TARA Biosystems**)
23. Invention Disclosure 10003042, December 02nd, 2015

Davenport-Huyer L, Montgomery MJ, Radisic M “A highly elastic and moldable polyester biomaterial for cardiac tissue engineering applications” (**optioned to TARA Biosystems**)

24. Davenport-Huyer L, Montgomery MJ, Radisic M : “A HIGHLY ELASTIC AND MOLDABLE POLYESTER BIOMATERIAL FOR CARDIAC TISSUE ENGINEERING APPLICATIONS” US Provisional Patent, #62/362,271 filed April 14th, 2016

2.7 START-UPS

Co-founder of **TARA Biosystems**, New York, NY. August 2014 . VC funded start-up focused on model systems for drug testing. Raised \$2.75M up to date.

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. Milica Radisic M, Park H, Schoen F, Shing S, Consi T, Jan Boublik J, Langer R, Freed LE, Vunjak-Novakovic G: “Electrical stimulation enhances functional assembly of engineered myocardium”, 2003 Annual Meeting of the Korean Society for Biotechnology and Bioengineering, Oct. 24, 2003 (oral)
4. 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)
5. 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)
6. Radisic M, Park H, Shing H, Boublik J, Consi T, Schoen F, Freed LE, Vunjak-Novakovic G: “Electrical stimulation enhances functional assembly of engineered myocardium” NASA Cell Science Conference, Palo Alto CA, February 26-28, 2004.
7. 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)
8. 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)
9. 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)

10. **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, Lausanne Switzerland (oral)
11. **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)
12. **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)
13. **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)
14. **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)
15. **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)
16. **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)
17. **Vunjak-Novakovic G, Radisic M**, Park H: “ Biomimetic Approach to Cardiac Tissue Engineering” 2005 BMES Annual Meeting, Sept 28-Oct 01 Baltimore, MD (oral)
18. **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)
19. **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)
20. **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, Oct 16-19 2005, Toronto, ON (oral)
21. **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)
22. **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)
23. **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)

24. 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)
25. 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)
26. **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)
27. 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)
28. 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 Regenerative Medicine, 2005, Toronto, Canada. (poster)
29. Vunjak-Novakovic G, **Radisic M**, Park H: “Biomimetic Approach to Cardiac Tissue Engineering” 2005 BMES Annual Meeting, Sept 28-Oct 01 Baltimore, MD (oral)
30. Vunjak-Novakovic G, **Radisic M**, Park H, Wang Y, Dennis RG, Freed LE, Langer RS, William D: “Convective-Diffusive Oxygen Transport In Engineered Cardiac Tissue” 2005 BMES Annual Meeting, Sept 28-Oct 01 Baltimore, MD (oral)
31. **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)
32. **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)
33. **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)
34. 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)
35. 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)
36. 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)
37. **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)

38. 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)
39. 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)
40. 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)
41. Iyer RK, Chiu L, **Radisic M**: “Novel microfabricated PEG templates for rapid screening of engineered cardiac organoids” IBBME Scientific Day, University of Toronto, June 07, 2006 (oral)
42. 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)
43. 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)
44. **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
45. 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
46. 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)
47. 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)
48. 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)
49. 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)
50. 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)
51. 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)
52. 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)

53. **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)
54. **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)
55. **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 Exhibition on Tissue Engineering and Regenerative Medicine June 13-16, 2007 (poster)
56. **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)
57. **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)
58. **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)
59. **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)
60. **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)
61. 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)
62. 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)
63. **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)
64. **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)
65. **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)
66. **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)
67. **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)

68. 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)
69. 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)
70. 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)
71. 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)
72. 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
73. 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)
74. 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)
75. 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)
76. 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)
77. 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)
78. 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)
79. 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)
80. 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)
81. 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)

82. 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)
83. 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)
84. 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)
85. Odedra D, Radisic M, Shoichet M: "Biomaterials with Growth Factor Gradients for Cardiac Tissue Engineering" IBBME Scientific Day, May 14, 2009 (poster)
86. Chiu LLY and **Radisic M**: "Scaffolds Immobilized with VEGF and Angiopoietin-1 to Create Cardiovascular Grafts. 8th World Congress of Chemical Engineering, August 23-27, 2009, Montreal, QC (oral)
87. 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.
88. 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)
89. 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)
90. Green JV, Plouffe BD, **Radisic M**, Murthy SK: "Microfluidic Cell Separation - Applications & Challenges in Tissue Engineering." Gordon Conference on Physics & Chemistry of Microfluidics, Lucca, Italy. June 30-July 2, 2009. (poster)
91. 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)
92. 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)
93. 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)
94. 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)
95. 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)

96. 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)
97. 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)
98. 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)
99. Iyer RK, Odedra D, Vunjak-Novakovic G, **Radisic M**. "VEGF signaling regulates phenotype and function in Precultured versus Tricultured Engineered Cardiac Tissues through changes in Cx-43." Institute of Biomaterials and Biomedical Engineering (IBBME) E. Llewellyn Thomas Scientific Day. May 19, 2010, Toronto, ON (poster, honorable mention).
100. 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)
101. 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)
102. 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)
103. 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)
104. 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)
105. 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)
106. 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)
107. 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)
108. 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)

109. 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).
110. 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)
111. 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
112. **Radisic M**: "Engineered heart tissue", Cardiovascular Seminar, American Heart Association, Scientific Sessions, November 14-16, 2010, Chicago, IL (oral)
113. 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)
114. 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).
115. Chiang CK, Stanford WL, **Radisic M**: "Site-specific Differentiation of Embryonic Stem Cell Derived Cardiovascular Progenitor Cells for Cardiac Tissue Engineering" TERMIS-NA 2010 Annual Conference, December 05-08, 2010, Orlando, FL (poster)
116. 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)
117. 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)
118. 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)
119. 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)
120. Zhang B, Green J, Murthy S, **Radisic M**. "Label-free size-based separation of cardiomyocytes in microfluidic system" MATCH Symposium, June 2011 (oral)
121. Hang 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)
122. Chiu, LLY, Liang, Y, **Radisic, M**: "Oriented Capillary Structures for Cardiac Tissue Engineering." 2011 BMES Annual Meeting, October 12-15, 2011. Hartford, CT. (oral)
123. Chiu, LLY, Liang, Y, **Radisic, M**: "Oriented Capillary Outgrowths for Cardiac Tissue Engineering." IBBME Scientific Day 2011, University of Toronto, May 19, 2011. Toronto, ON. (oral)

124. 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)
125. 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)
126. 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)
127. 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)
128. 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)
129. 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)
130. Xiao Y, **Radisic M**: "Engineering Cardiac Organoids with Microfabricated Devices" IBBME Scientific Day, May 19, 2011 (poster)
131. 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).
132. 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.
133. 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).
134. Rashedi I, **Radisic M**, Keating A: "characterization of bone marrow mesenchymal stromal cells undergoing cardiac lineage differentiation". IBBME Scientific Day, May 19, 2011 (poster).
135. Vasconcelos S, Xiao Y, Thavandiran N, Au H, **Radisic M**. "Microbioreactors for cardiac tissue engineering", June 7-10, 2011, TERMIS-EU, Granada, Spain (oral)
136. Hsieh A, Sofla A, **Radisic M**: "Label-free Cardiomyocyte Enrichment in Microfabricated Device" Microtechnology Conference and Expo, Boston, MA, 2011 (poster)
137. Hsieh A, Sofla A, **Radisic M**: "Label-free, cardiomyocyte enrichment: A biochemical and microfabricated approach", BMES Annual Meeting, Hartford, CT, 2011 (poster)
138. Hsieh A, Sofla A, **Radisic M**; "Cardiomyocyte enrichment in microfabricated device", Ontario-on-Chip/MATCH Symposium, Toronto, ON, 2011 (poster)

139. 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.
140. 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.
141. 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 Fajardo, Puerto Rico
142. 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)
143. 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)
144. 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)
145. 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)
146. 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)
147. 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)
148. 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)
149. 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.
150. 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)

151. 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)
152. 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)
153. Xiao Y, Zhang B, Liu H, Miklas JW, Gagliardi M, Pahnke A, Thavandiran N, Sun Y, Simmons CA, Keller G, **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)
154. 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, ON, May 2013 (poster)
155. 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)
156. 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)
157. 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)
158. Nunes SS, Miklas JW, Liu J, Aschar-Sobi R, Xiao Y, Zhang B, Jiang J, Mase S, Nanthakumar K, Gross G, Backx P, Keller G and **Radisic M**. "Biowire: a platform for maturation of human pluripotent stem cell derived cardiomyocytes". Biomedical Engineering Society (BMES) Annual Meeting, Seattle, WA, Sept 25-28, 2013. (Oral)
159. 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)
160. 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)
161. 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)
162. 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)
163. 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
164. 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

165. 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)
166. 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)
167. 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)
168. 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)
169. 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)
170. 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)
171. 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)
172. 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 29th, 2015, Toronto, ON Canada (oral)
173. Korolj A, Zhang B, Montgomery M, **Radisic M**: "Biomaterials with Fine-Tunable Properties for Soft Tissue Engineering" Canadian Biomaterials Society Annual Meeting, May 27th-30th, 2015, Toronto, ON (oral)
174. 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 07th-09th, 2016 (oral)
175. 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)
172. 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)
176. 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)

177. 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)
178. 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)
179. 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)
180. 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)
181. 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)

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 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, Jan 25, 2006, Toronto, ON
7. “Biomimetic Approach to Cardiac Tissue Engineering” Annual Cardiovascular Scientific Day, Heart & 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. Panel on Regenerative Medicine, 2008 Emerging Technologies Conference, M.I.T., Cambridge, MA (declined due to maternity leave)
17. "Tissue Engineering of a Living Cardiac Patch", VIPSI2009 and World Rector Conference, April 02-04 2009, Belgrade, Serbia
18. "Cardiac Tissue Engineering", Design of Medical Devices Conference, April 14-16, 2009 Minneapolis, MN
19. "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
20. "Biomaterials and Bioreactors for Stem Cell Differentiation" Toronto Stem Cell Rounds, Toronto, ON May 04, 2009
21. "Tissue Engineering" REMEDI Symposium, Toronto General Research Institute, June 12, 2009
22. "From Cells to Tissue Engineering: Re-making of the Heart" Institute of Medical Science Summer Program, University of Toronto, June 24, 2009
23. "Immobilized Growth Factors for Vascularization of Engineered Tissues" Symposium in Honor of Dr. Michael Sefton's 60th Birthday, University of Toronto, October 16, 2009
24. "Women in Research and Teaching" National Conference on Women in Engineering 2009: Designing the World to Come, Toronto, Nov 28, 2009
25. "Engineering Microenvironments for Cardiovascular Regeneration" Symposium on Advanced Research, Jan 12, 2010
26. "Engineered Heart Tissue for Drug Development" Presentation to Merrimack Pharma on Feb 12, 2009
27. "Innovation in Tissue Engineering and Regenerative Medicine", The International Diaspora Youth Leadership Conference, March 22, 2010, Toronto, ON

28. "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
29. "Engineered Heart Tissue", 2010 AHA Scientific Sessions, November 15, Chicago, IL
30. Student Meet the Mentor Lunch, 2010 TERMIS-NA Meeting, Orlando, FL
31. "Engineered Heart Tissue" presentation to External Reviewers of the Department of Chemical Engineering and Applied Chemistry, Dec 02, 2010
32. "Engineering Microenvironments for Cardiovascular Regeneration", 10th Congress of the Japanese Society for Regenerative Medicine, Tokyo, Japan, March 01, 2011
33. "Engineering Microenvironments for Cardiovascular Regeneration", Tokyo Women's Medical University, Tokyo, Japan, March 03, 2011
34. "Healthy and diseased heart tissue on a chip", School of Engineering and Applied Sciences, Harvard University, Boston, MA, April 27th, 2011
35. "Engineering Microenvironments for Cardiovascular Regeneration", Biochemical and molecular engineering XVII, June 26-30, 2011 Seattle, WA
36. "Tissue Engineering and Biomaterials for Cardiovascular Regeneration", Personalized Medicine in the Genomics Era, Oct 17th, 2011 Toronto, ON
37. 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
38. "Collagen patches for cardiac repair", California Institute for Regenerative Medicine Tissue Engineering Workshop (closed, by invitation), Jan 11-14, 2012 San Francisco, CA
39. "Healthy and Diseased Heart Tissue on a Chip", CCRM-Roche Meeting, March 12, 2012, Toronto, ON
40. "Healthy and Diseased Heart Tissue on a Chip", Chemical Engineering Research Consultants Limited, March 09, 2012, Toronto, ON
41. "Controlled delivery of Thymosin β 4 for tissue engineering and cardiac regenerative medicine", Third International Symposium on Thymosins in Health and Disease, March 15, 2012, Washington, DC
42. "Engineering microenvironments for cardiovascular regeneration", Department of Chemistry, York University, April 19, 2012
43. "In vitro models of heart disease and regeneration" Experimental Biology 2012, America Association of Anatomists, April 25th, 2012 Sand Diego, CA
44. "Engineering microenvironments for cardiovascular regeneration", Department of Bioengineering, University of California-San Diego, April 19, 2012
45. "Engineering Microenvironments for Cardiovascular Regeneration" TMF, University of Belgrade, June 29th, 2012

46. "Healthy and Diseased Heart Tissue on a Chip", Functional Imaging in Regenerative Medicine, NIST, Gaithersburg, MD, May 31st, 2012
47. "Healthy and Diseased Heart Tissue on a Chip", Alumni Spring Reunion Engineering Lectures, University of Toronto, June 02nd, 2012
48. "Engineering Microenvironments for Cardiovascular Regeneration" NSERC CREATE-IDEM, McMaster University, Hamilton, ON, July 10th, 2012
49. "Bioreactors for Development of Healthy and Diseased Myocardial Tissue Models", TERMIS World Congress, Vienna, Austria, September 08th, 2012
50. "Healthy and Diseased Heart Tissue on a Chip", IBBME Seminar Series, University of Toronto, Sept 27th, 2012
51. "Bioreactors for Development of Healthy and Diseased Myocardial Tissue Models", NIH Tissue Engineering Resource Center Site Visit, Tufts University, Boston, MA, November 08, 2012
52. "Tissue Engineering", Health Canada, Ottawa, ON, November 30th, 2012
53. "Novel Approach to Engineered Microvascular Networks", Conference on Cell Therapy for Cardiovascular Disease, New York, NY, Jan 24th, 2013
54. "Healthy and diseased heart tissue on a chip", Beyond Borders: Lyon Sachs Symposium, Technion, Haifa, IL May 08th, 2013
55. "Biological Wire: A New Platform for Maturation of Human Pluripotent Stem Cell Derived Cardiomyocytes", MFI Symposium, Ottawa Heart Institute, Ottawa, ON, June 28th, 2013
56. "Engineering microenvironments for cardiovascular regeneration", Emory University/Georgia Institute of Technology, July 17th, 2013
57. "3D Cell Culture and Bioreactors", International Summer School, Piran/Vipava, Slovenia, August 26th, 2013
58. "Tissue engineering for cardiac applications", International Summer School, Piran/Vipava, Slovenia, August 28th, 2013
59. "Engineering microenvironments for cardiac applications", Gladstone Institute of Cardiovascular Disease, San Francisco, CA, October 14th, 2013
60. "Healthy and diseased heart tissue on a chip", University of Pennsylvania Bioengineering's 40th Anniversary Symposium, Philadelphia, PA, November 21st, 2013
61. Impactful research panel, Simcoe Hall - Governing Council Chamber, November 27th, 2013
62. "Engineering microenvironments for cardiovascular regeneration", Excellence in Interventional Cardiology 2013, Whistler, BC, December 6th, 2013
63. Invited panelist, WISE Dinner with Industry, Queens University, January 22nd, 2014
64. "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)

65. "Engineering microenvironments for cardiovascular regeneration", Department of Bioengineering, University of Illinois Urbana-Champaign, February 06th, 2014
66. "Engineering microenvironments for cardiovascular regeneration", School of Applied Science and Engineering, Topics in Bioengineering, Harvard University, Cambridge, MA April 15th, 2014
67. "Engineering microenvironments for cardiovascular regeneration", Tissue Engineering and regenerative Medicine (TIME) Symposium, Temple University, Philadelphia, PA, April 30th, 2014
68. "Engineering microenvironments for cardiovascular regeneration", 4th Lugano Stem Cell Meeting, Lugano, Switzerland, June 23rd, 2014
69. "Perfusable microvessel networks and perfusion platforms for engineered tissues", 11th International Symposium on Stem Cell Therapy and Cardiovascular Innovations, Madrid, Spain, May 29th, 2014
70. "Cardiac tissue engineering and stem cells" Microfluidics Professional Course, University of Toronto May 26th, 2014
71. "High fidelity cardiac tissue models" CCRM Course, The Business of Regenerative Medicine: New Therapies, New Models Toronto, ON, July 15th, 2014
72. "Tissue engineering and cardiac model systems", Connaught Summer Institute, University of Toronto, August 20th, 2014
73. "Perfusable microvessel networks and perfusion platforms for engineered tissues", Ontario-Germany Lab-on-a-chip Workshop, Toronto, Canada, October 08th, 2014
74. "Biowire plates for cell maturation and screening of cardiac contractility", GlaxoSmithKilne, Inc King of Prussia, PA October 02nd, 2014
75. "Human cardiac biowires", Eli Lilly Corporate Headquarters, Indianapolis, IN, November 18th, 2014
76. "Human cardiac biowires and injectable tissues", Micro- and Nano-technology in Medicine, IEEE EMBS, December 09th, Oahu, HI 2014
77. "Human cardiac biowires and injectable tissues", MIREx McMaster University, January 14th, 2015
78. "Human cardiac biowires and injectable tissues", LMP Student Union, University of Toronto, January 17th, 2015
79. "Human cardiac biowires and injectable tissues", Division of Medical Sciences, University of Victoria, January 30th, 2015
80. "Human cardiac biowires and injectable tissues", Department of Biomedical Engineering, Cornell University, Ithaca, NY, March 09th, 2015
81. "Human biowires for in vitro studies of cardiac physiology", Department of Chemical Engineering, McMaster University, Hamilton, ON, March 12th, 2015
82. "Human biowires for in vitro studies of cardiac physiology", University of Toronto in Your Neighbourhood, Toronto, ON, March 26th, 2015

83. “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**)
84. “Human biowires and injectable tissues“, Victor Chang Cardiac Research Institute/University of New South Wales, Sydney, Australia, April 10th, 2015
85. “Human biowires for in vitro studies of cardiac physiology “, Regeneron, April 23rd, 2015
86. “Big Idea-Human Biowires for Predictive Cardiac Physiology“, American Heart Association Investment Forum, New York, NY, April 22nd, 2015
87. “Contractile mechanics of stem-cell derived cardiomyocytes“, PCBC Cardiovascular Tissue Engineering Workshop Agenda, Stanford, May 21st, 2015
88. “ Human cardiac biowires and injectable tissues“, CARDIOVASCULAR TISSUE ENGINEERING SYMPOSIUM, STANFORD, CA, May 22st, 2015
89. “Human cardiac biowires and injectable tissues” University of Toronto 3D Bioprinting Course, Toronto, Ontario, Canada, June 16th, 2015
90. “Tissue Velcro® For Rapid 3D Assembly of Functional Cardiac Co-cultures“, 2015 TERMIS World Congress, Boston, Massachusetts, United States. Sep 10th, 2015
91. “Human cardiac biowires and injectable tissues“. Cellular Dynamics iForum. Chicago, Illinois, United States. Sept 14, 2015
92. “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**)
93. “Human cardiac biowires and injectable tissues“. 65th Canadian Chemical Engineering Conference, Oct 06th, 2015 (**Hatch Innovation Award Lecture**)
94. “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
95. “ Human cardiac biowires and injectable tissues” CCRM Till and McCulloch Meetings, Toronto, Ontario, Canada, Oct 26th, 2015
96. “Hook-In-Tissue™ For Rapid 3D Assembly of Functional Cardiac Co-cultures“, Southmedic Site Visit, Toronto, ON, Canada, Dec 12th, 2015
97. “Engineering microenvironments for regenerative medicine” McMaster University BME Symposium. Hamilton, Ontario, Canada, Jan 08th, 2016 (**Keynote lecture**)
98. “Engineering microenvironments for regenerative medicine” Department of Laboratory Medicine and Pathobiology Seminar Series, University of Toronto, Toronto, ON Canada, Jan 11th, 2016
99. “Engineering microenvironments for regenerative medicine“, University of Toronto, Department of Chemical Engineering & Applied Chemistry. Toronto, Ontario, Canada, Research Dayz, Jan 18th 2016

100. “Engineering microenvironments for cardiovascular regeneration”, Ontario Institute of Regenerative Medicine Seminar Series, Toronto, Ontario, Canada, Feb 03rd, 2016
101. “Engineering biomaterials for regenerative healing”, Covalon, Mississauga, ON, Canada Feb 09th, 2016
102. “Biowire platform for cardiac drug screening”, Abbvie site visit, Feb 29th, 2016
103. “Engineering and Medical Treatment”, Engineering Innovations Forum. Toronto, ON, Canada, March 02nd, 2016 (**Keynote presentation**)
104. “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**)
105. “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
106. “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
107. “Effective Science Communications Panel”, Science Leadership Program, University of Toronto, April 14th, 2016
108. “Bioengineering stem cell-derived models of cardiac function”, Ted Rogers Centre for Heart Research 1st Scientific Symposium: Advances in Heart Failure, May 13th, 2016
109. “Heart-on-a-plate for drug discovery and disease modelling”, Georg-August-Universität Göttingen, Göttingen, Germany, May 31st, 2016
110. “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
111. “AngioChip Technology for Vascularization and Organ-on-chip Engineering”, American Heart Association Basic Cardiovascular Sciences 2016 Scientific Sessions, Phoenix, AZ, July 20th, 2016
112. “Perfusable Vasculature for Organ-on-a-Chip Engineering”, Microfluidics Professional Course, University of Toronto, July 12th, 2016
113. “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
114. “Towards human-on-a-plate”, Frontiers in Translational Research: Ex vivo models of human disease, Toronto, ON, September 16th 2016
115. “Engineered Tissues for Better Health and Longer Life”, TEDx Vaughan, September 23rd, 2016
116. “Bioengineering for the failing heart: The next frontier”, Pediatric Heart Failure Summit, Toronto, ON, September 26th, 2016

117. “Heart-on-a-Plate for Drug Discovery and Disease Modelling”, Annual Meeting of the Biomedical Engineering Society, Minneapolis, MN, October 07th, 2016
118. “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
119. “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
120. “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
121. “Heart-on-a-plate for drug discovery and disease modelling”, University of Waterloo, Waterloo, ON, October 27th, 2016
122. “Innovations in tissue engineering”, The Annual Claudette McKay-Lassonde Fall Forum, Toronto, ON November 12th, 2016
123. “Academic Start-ups”, Lunch-and-Learn, St. Michael’s Hospital, Toronto, ON, December 14th, 2016
124. “Towards human-on-a-plate and injectable functional tissues TARA Biosystems”, New York, NY, January 26th, 2016
125. “Bioengineering functional heart tissues for drug discovery and therapy”, Ryerson University, Toronto, ON, February 09th, 2016

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**)
- (2012-current) American Association for the Advancement of Science (**AAAS**)
- (2015-current) American Institute for Medical and Biological Engineering (**AIMBE**)

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

2012-current, 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

2014-2016 **TERMIS-AM Council 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 **Ontario Society of Professional Engineers (OSPE) Board of Directors**

2014-current **TARA Biosystems Board of Directors**

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 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

2017 Conference Co-Chair, **Keystone Symposia**, “Engineered Cells and Tissues as Platforms for Discovery and Therapy (K1)” March 09-12th, 2017

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.

3.6 EDITORIAL BOARD MEMBER and REVIEWER

Journal Editor

- Associate Editor, **ACS Biomaterials Science & Engineering**, 2014-current
- Section Editor-Bioengineering, **International Journal of Artificial Organs** 2010-2014
- Editorial Board, **Tissue Engineering**, 2013-current
- Editorial Board, **Advanced Drug Delivery Reviews**, 2016-current

Special Issue Editor

- "Tissue engineering of the heart: from in vitro models to regenerative solutions", **Advanced Drug Delivery Reviews** (IF=15.038), Volume 96, January 2016
- "Biomaterials for cardiac tissue engineering", **Biomedical Materials** (IF=3.697), Volume 10, Number 3, June 2015

Member of review panel:

- **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 Guiron University
 - Tel Aviv University
 - Afeka College
- **Canadian Institutes of Health Research**, Project Scheme, College of Reviewers, 2015, 2016, 2017
- **NIH T32 & R25 Review Panel Member**, November 2016
- **Canadian Institutes of Health Research**, Foundation Scheme, Stage 1, 2014, 2015
- 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)
- 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
- Fondazione 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
- National Children’s Research Centre (Ireland)
- National Science and Engineering Research Council of Canada (**NSERC**)
- Sick Kids Hospital, Toronto
- US-Israel Binational Foundation
- Knut and Alice Wallenberg Foundation, Sweden
- NIH Diabetic Complications Consortium

Ad hoc reviewer:

- ACS Biomaterials Science and Engineering
- ACS Nano
- Acta Biomaterialia
- Advanced Drug Delivery Reviews
- Advanced Functional Materials
- Advanced Healthcare Materials
- Annals of Biomedical Engineering
- Biofabrication
- Biomacromolecules
- Biomaterials
- Biomatter
- Biomedical Materials
- Biomicrofluidics
- BioTechniques
- Biotechnology & Bioengineering
- Biotechnology Progress
- Cardiovascular Engineering
- Cardiovascular Engineering and Technology
- Circulation
- Circulation Research

- Current Opinion in Chemical Engineering
- Current Vascular Pharmacology
- 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 the American Heart Association
- Journal of Theoretical Biology
- Journal of Tissue Engineering and Regenerative Medicine
- Lab on a Chip
- Langmuir
- Materials Today
- Methods
- Nature
- Nature Biomedical Engineering
- Nature Biotechnology
- Nature Cardiology
- Nature Communications
- Nature Materials
- Nature Medicine
- Nature Methods
- Nature Protocols
- Neurological Research
- Organogenesis
- PLoS One
- PNAS
- Proceedings of the Materials Research Society
- Science Advances
- Science Translational Medicine
- Scientific Reports
- Soft Matter
- Stem Cell Reports
- Stem Cell Research
- Stem Cell Research and Therapy
- Stem Cells Translational Medicine
- Tissue Engineering
- Trends in Cardiovascular Medicine
- **Outstanding Reviewer Status**, Acta Biomaterialia, April 2014

3.7 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.
- **Summer 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 Rendez-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 Rendez-vous, the University is open to the public and it is estimated that thousands of people bring their children to this event 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-radisic/>

- 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.

3.8 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. “Engineered 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
13. Interview at www.regenerativemedicinetoday.com (#35) July 17, 2007
14. “Top 35 Innovators under 35”, M.I.T. Technology Review, September/October 2008
15. “Technology Review names U of T's Radisic top innovator”, University of Toronto Homepage on August 19th, 2008
17. “Leading Edge: Healing the heart”, UofT Magazine, Winter 2009
18. “Radisic named top innovator”, The Bulletin, September 9, 2008
19. “A roundup of award news”, Engineering Dimensions, Magazine of the Professional Engineers of Ontario, November/December 2008 Volume 29, No.6
20. Featured in the 2007-2009 Report by the Heart and Stroke Richard Lewar Centre of Excellence
21. Interview in Serbian daily newspaper “Politika”, 04/04/2009
22. Awards and Honours, WISE Award, The Bulletin, University of Toronto, September 29, 2009
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
27. 2010’s People to Watch, Toronto Star, Jan 03, 2010
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
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209. Phys.Org (1.5M UMV): <http://phys.org/news/2016-03-person-on-a-chip-d-heart-liver-tissues.html>
210. Medical Daily: <http://www.medicaldaily.com/beating-heart-regenerative-medicine-376827>
211. Science Alert: <http://www.sciencealert.com/scientists-grow-person-on-a-chip-living-human-tissue-on-a-miniature-3d-structure>
212. ECN: <http://www.ecnmag.com/news/2016/03/engineers-grow-3d-heart-liver-tissues-better-drug-testing>
213. Canada Journal: <http://canadajournal.net/health/university-toronto-scientists-develop-homegrown-human-chip-44223-2016/>
214. 3Ders: <http://www.3ders.org/articles/20160308-3d-printed-person-on-a-chip-used-to-grow-human-heart-and-liver-tissue-for-drug-testing.html>
215. Gadgets 360: <http://gadgets.ndtv.com/science/news/person-on-a-chip-tech-may-help-repair-damaged-organs-study-811191>
216. FirstPost (India): <http://www.firstpost.com/living/3d-heart-liver-tissues-that-function-like-real-organs-grown-2663390.html>
217. Laboratory Equipment: <http://www.laboratoryequipment.com/news/2016/03/engineers-create-lab-grown-heart-liver-tissue-one-step-closer-person-chip>
218. Business Standard: http://www.business-standard.com/article/news-ians/3-d-heart-liver-tissues-that-function-like-real-organs-grown-116030800577_1.html
219. R&D Magazine: <http://www.rdmag.com/news/2016/03/engineers-grow-3-d-heart-liver-tissues>
220. STAT: <http://www.statnews.com/2016/03/08/heart-organ-on-a-chip/>
221. Economic Times (India): <http://economictimes.indiatimes.com/news/science/angiochip-person-on-a-chip-technology-may-help-repair-damaged-organs/articleshow/51305365.cms>
222. Siasat Daily: <http://www.siasat.com/news/person-chip-technology-true-928774/>
223. HNGN: <http://www.hngn.com/articles/186220/20160308/growing-3d-heart-liver-organ-tissues-outside-human-body.htm>
224. “University of Toronto Scientists Lead the World in Heart-on-a-Chip Technology”, Invest in Ontario, 2016 <http://www.investinontario.com/spotlights/university-toronto-scientists-lead-world-heart-chip-technology>
225. “People-in-a-Petri”, BBC Horizons Documentary, November 12th, 2016
226. “Skin cells ‘crawl’ together to heal wounds treated with unique hydrogel layer”, University of Toronto Engineering News, December 14th, 2016
227. Hydrogel helps skin cells “crawl” together to heal wounds”, UPI, December 14th, 2016

3.9 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 Progress* 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 HOTA 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

3.10 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	“ <i>In vitro</i> 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	\$120,000	2010-2013	\$40,000	“Processing and design criteria for engineering artificial tissues”

Accelerator Supplement				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-	Student	NSERC CREATE training program in

		2018	scholarships awarded on competitive basis	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. Radisic Co-I: K. Nanthakumar, G. Keller
McLean Award	\$100,000	2013-2017	\$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 iPSC 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 CREATE	\$1,650,000	2016-2021	\$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 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	Awarded	Mobilizing epicardial cells for enhanced integration of human cardiac patches PI: M. Radisic
NSERC-CIHR Collaborative Health Research Program	\$298,575	2016-2019	Awarded	Platform technology for maturation of human stem cell derived cardiomyocytes and cardiotoxicity screening PI: M. Radisic
NSERC RTI	\$149,911	2016-2018	Awarded	Advanced platform to characterize the mechanical and structural properties of natural and engineered soft biomaterials PI: C. Simmons

NSERC RTI	\$140,618	2016-2018	Awarded	“Key Characterization and Synthesis Tools for Defined Polymeric Hydrogels to Guide Cell Fate” PI: M. Shoichet
Canada Research Chair	\$500,000	2016-2021	Awarded	CRC in Functional Cardiovascular Tissue Engineering (Tier II) PI: M. Radisic
CFI Innovations Fund/ORF/Quebec	\$10,587,979	2018	Submitted	Ontario-Quebec Centre for Organ-on-a-Chip Engineering PI: M. Radisic
NSERC RTI	\$150,000	2017	Submitted	Automated high-speed cell sorting system for creating engineered 3D tissue microenvironments PI: Edmond Young
NSERC RTI	\$150,000	2017	Submitted	An integrated incubator-microscope for cell manipulation and measurement PI: Yu Sun
NSERC CRD	\$107,000	2017-2019	Awarded	Technology for high fidelity podocyte cultivation PI: M. Radisic

4. TEACHING

4.1 COURSES

Role/Period	Subject/curriculum	Duties/Purpose
Instructor Winter 2017	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	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	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)

Winter 2010 Winter 2011 Winter 2013		
Instructor Fall 2005	CHE353 Engineering Biology (3 rd year course, 180 students School of Engineering)	Designed a course section to examine cell structure and 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 (3 rd 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
08.02.2017	MASc Committee Chair	Stasja Drecun, IMS	C. Moreshead
08.02.2017	MASc Thesis Defense	Genna Contant, Chem Eng	M. Radisic
24.01.2017	PhD Committee Bypass Chair	Samanthan Cheung, Chem Eng	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	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, Chem Eng	M. Radisic
22.11.2016	PhD Committee Meeting, Chair	Elisa Archangelo, Chem Eng	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, Chem Eng	P. Zandstra/M. Radisic
03.11.2016	PhD Committee Meeting	Locke Davenport-Huyer, Chem Eng	M. Radisic
02.11.2016	PhD Committee Meeting, Member	Samantha Payne, Chem Eng	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, Chem Eng	M. Radisic
08.06.2016	PhD Committee Meeting, Member	Jieun Kim, IBBME	P. Zandstra
26.04.2016	PhD Cmt Chair	Darren Rodenhizer, Chem Eng	McGuigan
22.04.2016	SGS Defense	Boyang Zhang, Chem Eng	M. Radisic
12.04.2016	PhD Cmt Meeting	Stephanie Fisher, Chem Eng	M. Shoichet
27.11.2015 14.07.2015	PhD qualifying exam PhD cmt meeting	Ratna Verma, IMS	T. Waddell
25.11.2015	PhD qualifying exam	Locke Davenport-Huyer, ChemEng/IBBME	M. Radisic
24.11.2015	MASc cmt meeting	Genna Conant, ChemEng/IBBME	M. Radisic
20.11.2015	PhD cmt meeting	Elisa Archangelo, ChemEng	A. McGuigan
15.10.2015	MASc cmt meeting	Patricia Omoruwa, MIE	A. Guenther
02. 07. 2015	M.A.Sc. Bypass Oral Examination, Cmt Chair	N. Hilker, Chem Eng	G. Evans
26. 05. 2015	M.A.Sc Internal Thesis Reviewer	Wei Jie Cao, IMS	Howard Leong-poi

30. 04.2015	Ph.D. Committee Chair	Darren Rodenhizer	McGuigan
27.04.2015	Ph.D. Committee	Stephanie Fischer, Chem Eng	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	A. 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	Guenther
05. 11. 2015 14.11.2014	Ph.D. Cmt Meeting Ph.D. Qualifying Exam	Yimu Zhao, Chem Eng,	M. Radisic
21.10.2014	Ph.D. Qualifying Exam	Aric Pahnke	M. Radisic
16.10.2014	M.A.Sc. Bypass Committee Member	Suraj Brokar	Ramchandran
10.01.2014	M.A.Sc. Defense Committee Member	Arianna McAlister	Guenther
24.11.2015 05.09.2014	Ph.D. Committee Meeting Ph.D. Committee Meeting	Mohsen Afshar	Penney Gilbert
22.08.2014	M.A.Sc. Thesis Defense	Haotian Chen	A. Axel Guenther
20.08.2014	M.A.Sc. Thesis Defense	Phenix Qing Ba	Axel Guenther
09.06.2014	M.A.Sc. Committee Meeting	Zachary Lacksman, IMS	P. Backx, G. Keller
17.06.2014	Ph.D. Committee	Stephanie Fischer, Chem Eng	M. Shoichet
14.12.2015 21.09.2015 09.06.2014	Ph.D. Defense Ph.D. Cmt Meeting Ph.D. Committee Meeting	Malgosia Pakulska, ChemEng/IBBME	M. Shoichet
04.03.2016 10.07.2015 23.05.2014	Ph.D. Cmt Meeting Ph.D. Committee Meeting	Jieun Kim, IBBME	P. Zandstra
05.09.2014	Ph.D. Committee Meeting	Mohsen Afshar	Penney Gilbert
22.08.2014	M.A.Sc. Thesis Defense	Haotian Chen	Axel Guenther
20.08.2014	M.A.Sc. Thesis Defense	Phenix Qing Ba	Axel 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 Cmt 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 Member	Suraj Brokar	Ramchandran
10.01.2014	M.A.Sc. Defense Committee Member	Arianna McAlister	Guenther
29.11.2014	Ph.D. Committee Meeting	Sarah Kwon	W. Stanford
26.11.2014	Ph.D. Committee Meeting	Haotian Chen	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	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. Cmt Meeting Ph.D. Qualifying Exam	Yun Xiao, Chem Eng	M. Radisic
25.09.2012	Ph.D. Committee Meeting	Boyang Zhang, Chem Eng	M. Radisic
17.06.2014 06.08. 2013 24.09.2012	Ph.D. Committee Meeting Ph.D. Qualifying Exam	Stephanie Fischer, Chem Eng	M. Shoichet
18.09. 2012	M.A.Sc. Thesis Defense,	Diana Chan, IBBME	M. Shoichet

	Chair		
17.09. 2012	Committee Meeting	Arianna McAlister, IBBME	Guenther
15.08.2012	Master's Committee Meeting	Mark Li, IBBME	A. 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, Chem Eng	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, Chem Eng	M. Sefton
18.02. 2010	PhD Thesis Supervisor	Katherine Chiang, IBBME	M. Radisic
14.01 2010	Bypass Committee Member	Brett Kamino, Chem Eng	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, Chem Eng	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 Member Departmental Defense Chair	Ian Parrag, Chem-Eng	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, Chem-Eng	M. Radisic M. Radisic M. Shoichet
10.08. 2009	M.A.Sc. Defense Supervisor	Fiona Rask, Chem-Eng	M. Radisic
03.01.2011	Senate Oral	Elaine Fok, IBBME	W. Stanford

27.10.2010 24.06.2009 10.10.2006	Departmental Defense PhD Committee Member		
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, Chem Eng Appl Chem	M. Radisic M. Radisic
18.02. 2009 25.10.2007	M.A.Sc. Defense M.A.Sc. Committee Meeting	Melissa Brown, Chem Eng 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, Chem Eng Appl Chem/IBBME	M. Radisic
16.01. 2009	M.A.Sc. Defense	Fahad Chowdhury, Chem Eng Appl Chem	M. Radisic
17.07. 2008	M.A.Sc. Defense	Heidi Au, Chem Eng 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, Chem Eng 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	Amy Yuen, Faculty of	C. McCulloch

	Meeting Committee Member	Dentistry	
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, Chem Eng 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, University 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, Dept. of Chem. Eng. And 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	Current Position
Hannah Song (co-supervised with Peter Zandstra)	IBBME	Post-Doc	In vitro model system for cardiac cell therapy	2007-2015	Post-doctoral Fellow University of Toronto
Aleksandra Urbanska	IBBME	Post-Doc	Peptide-chitosan scaffolds for cardiac tissue engineering	2008-2009	
Aarash Sofla	IBBME	Post-Doc	Magnetic cell separation	2011-2012	CEO uFluidix
Nicole Feric	IBBME	Post-Doc	Bone Implant Materials	2012-2016	Senior Scientist, TARA Biosystems
Sara Nunes	IBBME	Post-Doc	Vascular tissue engineering	2011-2012	Assistant Scientist, UHN
Dario Bogojevic	IBBME	Post-Doc	Microfluidic Cell separation	2012-2014	Ryerson University, Staff
Samad Ahadian	IBBME	Post-doc	Injectable tissues	2015-current	Post-doc, University of Toronto
Boyang Zhang	IBBME	Post-doc	Organ-on-a-chip engineering	2016-current	Post-doc, University of Toronto
Houman Savoji	IBBME	Post-doc	3D Printing	2017-current	Post-doc, University of Toronto

4.3.2 Research Technicians and Associates

Name	Dept.	Degree Sought	Project Title	Period	Current Position
John-Paul King	IBBME	Technician	Bioreactors for cardiac tissue engineering	2007-2008	McMaster University, Teaching Lab
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	UHN
Carol Laschinger	IBBME	Research Associates	QHREDGS Peptide	2012-current	Radisic lab
Erika J. Knee	IBBME	Research Associate	Cardiac tissue engineering	2013-2014	Radisic lab

4.3.3 Graduate Students

Name	Dept.	Degree Sought	Project Title	Period	Current Position
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	Medical Student, University of Toronto
Heidi Au	Chem Eng	M.A.Sc.	Interactive effects of surface topography and electrical field stimulation	09/2006-07/2008	ADVENT Consulting
Melissa Brown	Chem Eng IBBME	M.A.Sc.	Microfluidic cell separation	09/2006-02/2009	Abbott
Jana Dengler	Chem Eng IBBME	M.A.Sc.	<i>In vitro</i> model system for myocardial cell therapy	09/2006-02/2009	Medical Resident University of Toronto
Fiona Rask	Chem Eng	M.A.Sc.	Injectable peptide modified hydrogel for cardiac cell therapy	09/2007-08/2009	Nuclear Safety Solutions, Analyst
Rohin Iyer	IBBME	Ph.D. M.A.Sc.	Cell tri-culture for cardiac tissue engineering	03/2007-11/2011 09/2005-03/2007	GE Healthcare
Loraine Chiu	Chem Eng	Ph.D. M.A.Sc.	Angiogenic scaffolds	05/2009-10/2012 09/2007-05/2009	Post-doc, McMaster University
Devang Odedra (co-supervised with Dr. M. Shoichet)	Chem Eng Collab IBBME	M.A.Sc.	Scaffolds with growth factor gradients	09/2008-02/2011	Medical student, Queens University
Katherine Chiang (co-supervised with Dr. W. Stanford)	IBBME	Ph.D.	Site-specific stem cell differentiation	01/2009-01/2011	Research technician
Nimalan Thavandiran (co-supervised with P. Zandstra)	Chem Eng	Ph.D. M.A.Sc.	Cardiac microwires Bioreactors for cardiac tissue engineering	03/2012-current 09/2009-03/2012	PhD student, University of Toronto
Anne Hsieh	Chem Eng	Ph.D.	Cell separation	09/2009-11/2015	Post-doc UHN
Lewis Reis	IBBME	Ph.D.	Injectable hydrogels for myocardial cell therapy	09/2009-06/2015	Price Waterhouse Coopers
Boyang Zhang	Chem Eng	Ph.D.	Microfluidic cell separation	09/2010-05/2016	Doctoral student, University of Toronto
Yun Xiao	Chem Eng	Ph.D.	Cardiac tissue engineering	09/2010-03/2016	Sichuan University

Iran Rashedi (co-supervised with Dr. A. Keating)	IBBME	Ph.D.	Cardiac tissue engineering	09/2008-11/2016	Research Associate
Jason Miklas	IBBME	M.A.Sc.	hESC based cardiac tissue engineering	09/2011-06/2013	Doctoral student, University of Washington
Mark Li (co-supervised with John Coles)	IBBME	M.A.Sc.	Ca handling in iPSC derived CM	09/2011-06/2013	Research technician
Yimu Zhao	Chem Eng	Ph.D.	Drug testing in cardiac tissues	09/2012-current	Doctoral student, University of Toronto
Aric Phanke	Chem Eng	Ph.D.	Modelling of cardiac disease using iPSC cardiomyocytes	09/2012-current	Doctoral student, University of Toronto
Miles Montgomery	IBBME	PhD	Injectable tissue	09/2012-current	Doctoral student, University of Toronto
Genevieve Conant	Chem Eng	M.A.Sc.	Cardiac tissues for drug testing application	09/2014-02/2017	Hammock Therapeutics
Locke Davenport Huyer	Chem Eng	Ph.D.	Drug delivery from an injectable tissue	09/2014-current	Ph.D. student, University of Toronto
Anastasia Korolj	Chem Eng	Ph.D.	Fractal vascular networks	09/2015-current	Doctoral student, University of Toronto
Fook Lai	IBBME	Ph.D.	Angiotube	09/2015-current	Doctoral student, University of Toronto
Dawn Bannerman	Chem Eng	Ph.D.	Biomaterial adhesion to epicardium	09/2016-current	Doctoral student, University of Toronto
Rick Lu	IBBME	Ph.D.	Organ-on-a-chip engineering for pollution assessment	09/2016-current	Doctoral student, University of Toronto
Erika Wang	IBBME	Ph.D.	Disease modelling using biowires	09/2016-current	Doctoral student, University of Toronto
Mohammad Hosein Mohammadi	Chem Eng	Ph.D.	Bioprinting a heart ventricle	09/2016-current	Doctoral student, University of Toronto
Robert Civitarese	IBBME	Ph.D.	Epicardial cell recruitment	09/2016-current	Doctoral student, University of Toronto

4.3.4 Undergraduate Students

Name	Dept.	Degree Sought	Project Title	Period	Current Position
Johana Salazar-Lazaro	MIT	Summer Stud	Cardiac cell co-culture	09/2003-05/2005	Air Liquide
Wenliang Geng	MIT	Summer Stud	Oxygen gradients in cardiac tissue engineering	01/2003-06/2005	Resident Physician, Miami Children's Hospital
Ruth Misener	MIT	Summer Stud	Cardiac tissue engineering	01/2003-01/2004	Research Fellow at Imperial College
Sasha Kucharczyk	Univ Guelph	Summer Stud	Image analysis for cell culture	07-08/2005	MBA Candidate, Rotman School
Irene Cheng	Chem Eng	Undergrad	Effect of contact guidance and electrical field stimulation on cell orientation and elongation	01-08/2006	Graduate student, Ryerson University
Heidi Au	Chem Eng	Summer Stud	Effect of contact guidance and electrical field stimulation on cell orientation and elongation	07-08/2006	ADVENT Consulting
Fahad Chowdhury	Eng Sci	Summer Stud	Effect of contact guidance and electrical field stimulation on cell orientation and elongation	05-08/2006	Medical student, University of Toronto
Melissa Brown	Eng Sci	Thesis Summer Stud	Pulsatile Perfusion Bioreactor for Cardiac Tissue Engineering	09/2005-08/2006	Abbott
Filip Marinkovic	Middlebury College	Summer Stud	Cardiac tissue engineering in perfusion bioreactors	07-08/2006 07-08/2007	TSX
Loraine Chiu	Chem Eng	Thesis Summer Stud	Cell tri-culture for cardiac tissue engineering	05/2006-08/2007	Post-doc, McMaster University
Yi-Hao Alex Shen (co-supervised with Dr. M. Shoichet)	Eng Sci	Thesis Summer Stud	Immobilized growth factors in cardiac tissue engineering	05/2006-05/2007	Medical student, University of Ottawa
Ying Meng	Eng Sci	Summer Stud	<i>In vitro</i> model system for cardiac cell therapy	05-08/2007	
Jane Chui	Eng Sci	Summer Stud	Cell tri-culture for cardiac tissue engineering	05-08/2007	Graduate student, MIT
Evelyn Mukwedeya	Eng Sci	Summer Stud	Perfusion cultivation of cardiac tissues	05-08/2007	Canadian Tire
Zane Chu	Eng Sci	Thesis Summer Stud	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 Stud	The influence of substrate stiffness on phenotype of heart cells	09/2007-04/2008	Ontario Power Authority
Mena Gewarges	Human Biol	Undergrad Stud	Electrical Stimulation Bioreactors	09/2008-09/2009	
Katarina Janic	Human Biol	Thesis Stud	Chitosan scaffolds for cardiac tissue engineering	09/2009-08/2010	Medical student, Queens University
Kent Hyunh	Chem Eng	Summer Student	Injectable hydrogel for treatment of myocardial infarction	05/2010-08/2010	Student, MIT
Shahed Al Haque	Eng Sci	Thesis Student	Micropatterning for cardiac tissue engineering	09/2010-04/2011	Graduate student, MIT
Jason Miklas	Materials Science	Thesis Student	Injectable hydrogel for treatment of myocardial infarction	09/2010-04/2011	Doctoral student, University of Washington
Mark Li	Eng Sci	Thesis Student	Cardiac tissue engineering based on mouse ESC	09/2010-04/2011	Research Technician
Yan Liang	Chem Eng	Thesis Student	Vascular tissue engineering	09/2010-04/2011	Student, Columbia University
Carlotta Peticone	Chem Eng	Thesis Student	Vascular tissue engineering in microfluidics	09/2011-04/2012	Graduate student, university College London
Kujaany Kana	York U.	Volunteer	Cardiac tissue engineering with electrical stimulation	09/2011-04/2012	Masters student, York University
Lara Fu	Eng Sci	Thesis Students	Sensor for electrical activity in biowires	06/2012-04/2013	Graduate student, Harvard-MIT
Anastasia Korolj	Chem Eng	Thesis student	Biodegradable Elastomers	09/2014-05/2015	Doctoral student
Stasja Drecun	Neuroscience	Undergraduate student	Biowire cardiac tissue	09/2014-current	Undergraduate student
Raimundo Fernandes Moreira Filho	Chem Eng	Summer student	Mechanical stimulation	05/2014-08/2014	Undergraduate student
Steven Yin Liao	Chem Eng	Summer student	Microfabrication	05/2014-08/2014	Undergraduate student
Junhao Gu	Chem Eng	Summer student	Wound healing	05/2014-08/2014	Undergraduate student
Carolina Ferreira	Chem Eng	Summer student	Cardiac tissue engineering	05/2014-08/2014	Undergraduate student
Jesse Wang	Engineering Track I	Summer student	Cardiac tissue engineering	05/2014-01/2016	Undergraduate student

Shuting Lin	Chem Eng	Summer student	Microfabrication	05/2014-08/2014	Undergraduate student
Dawn Lin	MIE	Undergraduate student	Microfluidic cell separation	09/2015-01/2016	Undergraduate student
Julia Antonovich	Neuroscience	Undergraduate student	Wound healing	05/2015-05/2016	Graduate student
Akhil Patel	Eng Sci	Undergraduate student	Mechanical testing	01/2016-05/2016	Undergraduate student
Nathaniel Smith	McMaster Univ	Summer student	CNT loaded elastomeric scaffolds	05/2016-08/2016	Undergraduate student
Bess Ye	Chem Eng	Summer student	Elastomeric Polyesters	05/2016-08/2016	Undergraduate student
Serena Mandla	Eng Sci	Summer student	Engineering a heart ventricle	05/2016-08/2016	Undergraduate student
Charlie Seung	Eng Sci	Summer student	Biowire II	05/2016-08/2016	Undergraduate student
Lucie Kim	Biology	Undergraduate student	Tissue engineering	09/2016-04/2017	Undergraduate student
Friday Anighoro	Biology	Undergraduate student	Tissue engineering	09/2016-04/2017	Undergraduate student
Joshua Isle	BME	Undergraduate student	Undergraduate mentor	09/2016-04/2017	Undergraduate student

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

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

4.4 TRAINEE AWARDS AND SCHOLARSHIPS

4.4.1 Post-doctoral Associates

Student name	Award	Year
Hannah Song	<ul style="list-style-type: none"> HSFC Post-doctoral Fellowship Stem Cell Network (SCN) bursary to participate in “Advanced Multi-colour Flow Cytometry” course 	2010-2012 2010
Aarash Sofla	<ul style="list-style-type: none"> MITACS Fellowship 	Declined
Sara Nunes	<ul style="list-style-type: none"> IBBME Best paper award for Nunes et al Nature Methods, 2013 	2014

4.4.2 Graduate Students

Student name	Award	Year
Rohin K. Iyer	• Ontario Graduate Scholarship in Science and Technology (OGSST)	2005-2006
	• Ontario Graduate Scholarship (OGS)	2006-2007
	• Heart and Stroke/Richard Lewar Centre of Excellence Scientific Day- Best Poster Award (\$1,000)	2007
	• IBBME Anna Jamieson Award	2007
	• 2008 TERMIS-NA Travel Award	2008
	• NSERC Canada Graduate Scholarship	2008-2011
Jana Dengler	• OCE International Scholarship	2009
	• Ontario Graduate Scholarship in Science and Technology (OGSST)	2006-2007
	• NSERC Post Graduate Scholarship-M (PGS-M)	2007-2008
	• Student Session Co-Chairs at 2010 TERMIS-NA	2010
M. Fahad Chowdhury	• Honorable Mention for Poster Presentation- IBBME Scientific Day 2010	2010
	• Heart and Stroke Foundation Master's Studentship	2007-2009
	• Heart and Stroke Richard Lewar Centre of Excellence Master's Studentship (declined)	2007-2008
	• Ontario Graduate Scholarship in Science and Technology (declined)	2007-2008
Loraine Chiu	• 2008 TERMIS-EU Travel Award	
	• 2008 ISSCR Travel Award	
	• NSERC Canada Graduate Scholarship	2007-2009
	• Mary H. Beatty Fellowship	2008
	• NSERC CGS for Doctoral Studies	2009-2012
	• One of 5 finalists of the 2 HSRLCE poster competition	2009
Heidi Au	• Inaugural Irving O. Shoichet Graduate Scholarship	2011
	• Queen Elizabeth II Graduate Scholarship	2011
	• NSERC Post-doctoral Fellowship	2012-2014
	• OGS (declined)	2007-2008
	• Helen L. Cross Graduate Memorial Scholarship	2008
	• NSERC Canada Graduate Scholarship	2007-2009
Fiona Rask	• NSERC Canada Graduate Scholarship	2007-2009
	• Heart and Stroke/Ontario Graduate Scholarship in Science and Technology (OGSST)	2009-2010
Devang Odedra	• University of Toronto, Gordon Cressy Award	2010
	• NSERC CGS for Doctoral Studies	2009-2011
Anne Hsieh	• MATCH Travel Grant	2011
	• MATCH Scholarship	2011-2012
	• Best Poster Award MATCH Symposium	2012
	• MATCH Scholarship	2012-2013
	• Doctoral completion grant	2013-2014
	• Travel award for Till & McCulloch Meeting (by Stem Cell Network) in Ottawa, ON Oct. 27 -29	2014
	• CIHR Master's Scholarship	2009-2010
Nimalan Thavandrian	• HSFC Master's Scholarship	2010-2012
	• MATCH Travel Grant	2011
	• SGS Travel Grant	2011

	<ul style="list-style-type: none"> • 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 	<p>2011-2013 2011 2011 2011-2012</p> <p>2012 2013-2014 2014-2015</p> <p>2014-2015 2016</p>
Katherine Chiang	<ul style="list-style-type: none"> • Ontario Graduate Scholarship • NSERC Postgraduate Scholarship D • Student Session Co-Chairs at 2010 TERMIS-NA 	<p>2009-2010 2010-2013 2010</p>
Lewis Reis	<ul style="list-style-type: none"> • Heart and Stroke Richard Lewar Centre of Excellence • Queen Elizabeth II Graduate Scholarship • NSERC Post-graduate Scholarship 	<p>2010-2011 2011-2012 2012-2015</p>
Boyang Zhang	<ul style="list-style-type: none"> • MATCH Program Scholarship (NSERC CREATE) • MATCH Program Scholarship (NSERC CREATE) • Heart and Stroke Richard Lewar Center of Excellence Graduate Scholarship • 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 	<p>2010-2011 2011-2012 2012-2013</p> <p>2012-2013 2013 2013-2014 2013-2014 2014-2015 2014-2015 2014-2015 2014-2015 2014-2015 2016 2016</p>
Yun Xiao	<ul style="list-style-type: none"> • Chinese Government Post-graduate 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 	<p>2010-2014 2012 2013 2014</p> <p>2014-2015 2014-2015 2015</p>
Iran Rashedi	<ul style="list-style-type: none"> • Stem Cell Network (SCN) bursary to participate in “Advanced Multi-colour Flow Cytometry” course 	<p>2010</p>
Mark Li	<ul style="list-style-type: none"> • Restracom, SickKids Hospital 	<p>2011-2012</p>
Jason Miklas	<ul style="list-style-type: none"> • CIHR Masters Scholarship • Queen Elizabeth II Graduate Scholarship (declined) • NSERC Canada Graduate Scholarship • SGS Conference Travel Grant 	<p>2012-2013 2012-2013 2013-2014 2012</p>
Miles Montgomery	<ul style="list-style-type: none"> • Queen Elizabeth II Graduate Scholarship • NSERC Post-graduate Scholarship • Irving O Shoichet Graduate Scholarship • Centre for Microfluidic Systems in Chemistry and Biology Small Talks Competition, 1st Prize 	<p>2012-2013 2013-2014 2012-2013 2013</p>

	<ul style="list-style-type: none"> • Vanier Canada Graduate Scholarship • NSERC CREATE M3 Travel Award • NSERC CREATE MATCH Travel Award • SGS Travel Award 	2013-2017 2014-2015 2014-2105 2014-2015
Aric Pahnke	<ul style="list-style-type: none"> • MATCH Scholarship • MATCH Scholarship • MATCH Scholarship 	2012-2013 2013-2014 2014-2015
Yimu Zhao	<ul style="list-style-type: none"> • Queen Elizabeth II Graduate Scholarship • OGS • NSERC Doctoral Scholarship • Rogers PhD Studentship 	2012-2013 2013-2014 2014-2016 2016-2017
Genevieve Conant	<ul style="list-style-type: none"> • CIHR Masters Scholarship • Ontario Graduate Scholarship 	2014-2015 2015-2016
Locke Davenport-Huyer	<ul style="list-style-type: none"> • CIHR CGSM Graduate Scholarship • SGS Travel Grant • Vanier Graduate Scholarship 	2015-2016 2016 2016-2019
Benjamin Fook Lai	<ul style="list-style-type: none"> • OGS Graduate Scholarship • NSERC Postgraduate Scholarship 	2015-2016 2016-2019
Anastasia Korolj	<ul style="list-style-type: none"> • NSERC CREATE M³ Graduate Scholarship • NSERC Canada Graduate Scholarship 	2015-2016 2016-2019
Robert Civitarese	<ul style="list-style-type: none"> • Ontario Graduate Scholarship 	2016-2017
Erika Wang	<ul style="list-style-type: none"> • Queen Elizabeth II Scholarship in Science and Technology 	2016-2017
Dawn Bannerman	<ul style="list-style-type: none"> • NSERC M3 Scholarship 	2016-2017
Mohammad Hosein Mohammadi	<ul style="list-style-type: none"> • NSERC M3 Scholarship 	2016-2017
Rick Lu	<ul style="list-style-type: none"> • NSERC M3 Scholarship 	2016-2017

4.4.3 Undergraduate Students

Student name	Award	Year
Shahed Al-Haque	<ul style="list-style-type: none"> • CIHR Banting and Best CGS-Masters (declined) 	2011
Yi-Hao Alex Shen	<ul style="list-style-type: none"> • NSERC Undergraduate Summer Research Award (USRA) • University of Toronto, Life Science Award 	2006 2006
Loraine Chiu	<ul style="list-style-type: none"> • NSERC Undergraduate Summer Research Award (USRA) 	2006
Jane Chui	<ul style="list-style-type: none"> • University of Toronto, Engineering Science Research Opportunity (ESROP) Award • Undergraduate Engineering Research Day 1st Place 	2007 2007
Zane Chu	<ul style="list-style-type: none"> • NSERC Undergraduate Summer Research Award (USRA) 	2007
Jason Miklas	<ul style="list-style-type: none"> • NSERC Undergraduate Summer Research Award (USRA) • Centennial Thesis Award • The highest average in Department of Materials Science and Engineering 	2011 2011 2011
Yan Liang	<ul style="list-style-type: none"> • Centennial Thesis Award 	2011
Lara Fu	<ul style="list-style-type: none"> • NSERC USRA 	2012
Jesse Wang	<ul style="list-style-type: none"> • Faculty of Medicine, summer UROP Award 	2014
Nathaniel Smith	<ul style="list-style-type: none"> • NSERC USRA 	2016
Bess Ye	<ul style="list-style-type: none"> • NSERC USRA 	2016
Charlie Seung	<ul style="list-style-type: none"> • IBBME USRP 	2016

