



33rd Annual Meeting of the Canadian Biomaterials Society



May 24-27, 2017

Winnipeg, Manitoba

Acknowledgement

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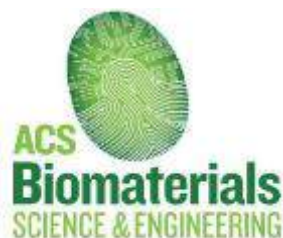
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Welcome to CBS 2017

Dear colleagues,

On behalf of the Organizing Committee, I am pleased to welcome you to the 2017 Canadian Biomaterials Society (CBS) annual meeting. We wish you have a great time at the 33rd CBS Annual Meeting being held in Winnipeg, Manitoba on May 24-27, 2017.

The first CBS annual meeting being held in Manitoba, the program is designed to provide an overview of the latest research and development in the field of biomaterials and their clinical applications. Distinguished scientists and clinicians have been invited for lectures in plenary sessions. Research papers will be presented in the form of oral presentations or posters in multiple sessions to cover a wide variety of topics in biomaterials. Social programs and special workshops have also been planned.

The 33rd CBS Annual Meeting will be held on the Fort Gary Campus of the University of Manitoba, located at the south end of Winnipeg on the bank of Red River. The conference will provide many opportunities to interact with colleagues from across Canada and around the world.

We wish to express our gratitude to our sponsors, whose great support made it possible for us to host this meeting. We would strongly encourage you to visit the technical exhibitions staffed by our sponsors to display their products and services. We are also very grateful for the help and advice of our Advisory and Scientific committees.

We are looking forward to meeting you in Winnipeg in the beautiful spring of 2017.

Yours sincerely,



Malcolm Xing, PhD
Associate Professor
University of Manitoba
CBS2017 Conference Chair



Organizing Committee

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Wen Zhong, PhD
Gurankit Singh (Student Representative)

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Isabelle Catelas, PhD
Rosalind Labow, PhD

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Conference Information

Registration

Conference registration will be available at the Atrium in Engineering and Information Technology Complex (EITC) on Wednesday, May 24th from 5:00p to 9:00p. From Thursday, May 25th a Registration / Information desk will be located in the EITC Atrium. The desk will be attended during the following hours:

Thursday, May 25: 8:00 am - 4:30pm • Friday, May 26: 8:30am - 4:30pm • Saturday, May 27: 8:30am - 12:00am

Name Badges

All registered conference participants will be issued a name badge, a drink ticket for the reception, and a portfolio containing the conference program. Badges should be worn at all times in the session rooms as well as in all common areas (EITC Atrium and Food station area) being utilized for the meeting.

Internet Access

General wireless internet access is available through the 'UofM-Guest' network (search using your Wi-Fi browser). Note that this is not a secure network with variable signal strength quality. For better internet services, please use 'UofM-Secure' and enter the individualized username and password provided in your registration package.

Directions to the Fort Gary Campus of University of Manitoba and Public Transit

Please visit <https://biomaterials.ca/#!/meeting/1-annual-biomaterials-conference/5/directions> for directions to the Fort Gary campus (where the conference is taking place) as well as for information on how to access the main campus by public transit.

Parking on the Fort Gary Campus of University of Manitoba

Short term parking (2 hour maximum) is available at designated multi-space solar-powered Pay & Park meters at a cost of \$1.75 per hour. Pay & Park meters accept coin, VISA or MasterCard. Single space electronic meters (30 minute to 2 hour maximum) accept COIN ONLY.

LOTS: A, ALC, D, G, H

Long term parking (2 hour minimum to 8 hour maximum) is available at multi-space solar-powered Pay & Park meters located in the public parking Pay & Park sections at a cost of \$1.75 per hour (2 hour minimum) and a daily maximum of \$10.50. Pay & Park machines accept coin, VISA or MasterCard.

LOTS: AC, ACW, L, Q, RCFFN, U

Food / Breakfast Options

Tim Horton's is located in the EITC. You can also find a food court, 'Campo' in University center located across the EITC which includes different eating options such as Subway, Tim Horton's, Shawarma, Wok, Salad bar, etc. Working hours:

10:30 am to 6:30 pm on Monday – Thursday, 10:30 am to 3 pm on Friday

Social Program

Welcome Reception

Wednesday, May 24th, 6:00pm to 9:00pm

EITC Atrium

Conference participants are invited to attend the welcome reception at the EITC Atrium on Fort Garry campus (see map for reference). Catch up with old friends and to make new one! A registration and information desk will be open during the reception. Food, drink & refreshments are provided. All registered conference participants will be issued a drink ticket. Additional drinks will be available for purchase.

Student Social Night

Thursday, May 25th, 6 pm to 8:30 pm

The Hub Social Club, University Centre

All students and young researchers are invited to a social evening at *The Hub Social Club*. With a creatively designed beverage menu, it sure makes it easy to enjoy yourself. Whether you're in the mood to relax and mingle with friends or kick up your heels and pull out the newest dance moves, The Hub has it all! Specialty pizzas and drinks will be served. Each student will be issued a drink ticket. Additional drinks and foods will be available for purchase. We will meet up in the EITC Atrium and will walk over to the Hub (or you can also meet us there!) This event is included in your registration.

Conference Banquet

Friday, May 26th, 6 pm to 9:30 pm (Dinner)

Prairie 360

Join us for the annual CBS conference banquet at [Prairie 360](#), which is one of the finest dining places in Winnipeg. The restaurant provides a 360^o rotation to oversee the entire city while dining. The time of banquet provides an additional advantage of a sunset making you enjoy a scenic beauty while you eat. The restaurant is located at the Forks, a historic site at the intersection of the rivers, Red and Assiniboine. We will meet at the EITC Atrium and from there we will use charter buses as a mode of transport to get there! There is a nominal charge (\$10), being charged at the time of online registration for this event. All registered conference participants will be issued a drink ticket. Additional drinks will be available for purchase.

Special Sessions and Workshops

NSERC Workshops

Friday, May 26th, 3:30pm-5:00pm (EITC E2-150/130)

A NSERC Discovery Grants presentation (E2-150) will be delivered by NSERC program officer (Caroline Bicker) on the most recent discovery grant results, new policy changes, as well as a “How to Apply” to DG component with Q&A at the end.

A NSERC Scholarships and Fellowships presentation (E2-130) will be delivered by NSERC program officer (Catherine Harrison) to cover postgraduate programs, postdoctoral programs and instructions on how to apply, as well as tips on submitting applications.

Poster Sessions/ Exhibition

EITC Atrium

Join us for an interactive session where you can engage in some lively discussion with our poster presenters. Take some time as well to interact with our industry partners and learn more about their innovative products and services

Industrial/Clinician Workshop

What is required to cultivate fruitful partnerships between academics, clinicians and industry?

Friday, May 26th, 12:15 pm – 1:15 pm (EITC E3-270), Chaired by Thomas Willett, PhD

Invitees from industry and clinical practice will deliver 5-minute perspectives, followed by open discussion:

Scott M. Vickers, PhD

Engineering Program Manager, Biologics R&D, Medtronic, Nashville, TN, USA

Tannin Schmidt, PhD, Peng

Associate Professor and Tier II Canada Research Chair in Biomedical Engineering -Biomaterials, University of Calgary, and co-founder of Lubris BioPharma LLC.

Dr. Richard Keijzer, MD, MSc, PhD

Pediatric Surgeon- Associate Professor of Surgery, Children’s Hospital Research Institute of Manitoba.

Dr. Jun Wu, MD

Southwest Hospital, The Third Military Medical University, China

CBS Annual General Meeting

Thursday, May 25th, 12:45 pm to 2:00 pm

EITC E3-270

At the Annual General Meeting, CBS members will be updated on CBS activities and progress during the past year. Our plans for the coming year will also be discussed. Another important activity will be the nomination of candidates for CBS President-Elect and the Board of Directors.



33rd Annual Meeting of the Canadian Biomaterials Society

Winnipeg, Manitoba

Keynote Speaker



Thursday May 25



8:30-9:30am

EITC E3-270

Biomaterials for Regenerative Engineering Applications

Guillermo Ameer, Sc.D.

**Professor of Biomedical Engineering, McCormick School of Engineering
Professor of Surgery, Feinberg School of Medicine
Northwest University**

Dr. Ameer is a professor in the Biomedical Engineering Department at the McCormick School of Engineering and the Department of Surgery at the Feinberg School of Medicine, Northwestern University. He is also a resident faculty member at the Simpson-Querrey Institute for BioNanotechnology, a member of the Chemistry of Life Processes Institute, and the International Institute for Nanotechnology. Dr. Ameer received his Bachelor's degree in Chemical Engineering from the University of Texas at Austin, and his doctoral degree in Chemical and Biomedical Engineering from the Massachusetts Institute of Technology. His research interests include biomaterials, tissue engineering, regenerative engineering, on demand, patient-specific medical devices, controlled drug delivery and bio/nanotechnology for improved therapeutics and diagnostics. Specifically, Dr. Ameer's laboratory pioneered the development and applications of citric acid-based biomaterials. He has co-authored over 250 peer-reviewed journal publications and conference abstracts, several book chapters, and over 40 patents issued and pending in 9 countries, several of which have been licensed to develop innovative medical products. Dr. Ameer has received numerous awards, including election to Technology Review Magazine's top 100 Young Innovators in the world, the NSF CAREER award, and the American Heart Association's Established Investigator Award, and the American Institute of Chemical Engineers' MAC Eminent Chemical Engineer Award. He has served on several national and international scientific review committees for funding research. He was elected Fellow of the American Institute of Medical and Biological Engineering and of the Biomedical Engineering Society. Dr. Ameer is currently a member of the Board of Directors of the Biomedical Engineering Society and co-chair of the Diversity Committee. Dr. Ameer is an Associate Editor for the journal Regenerative Engineering and Translational Medicine and he is on the editorial boards of the Journal of Biomedical Materials Research: Part A and Organogenesis. He is a member of the Scientific Advisory Board of Acuitive Technologies, Inc. and was the co-founder of several medical device companies in the areas of dialysis, vascular surgery, and orthopedic surgery.



33rd Annual Meeting of the Canadian Biomaterials Society

Winnipeg, Manitoba

Keynote Speaker



Thursday May 25

2:00-3:00pm

EITC E3-270

Conductive Biomaterial Enhanced Electrical Propagation of Left Ventricular Scar to Attenuate Ventricular Arrhythmia

Ren-Ke Li, MD, PhD, FCAHS

**Professor of Surgery, University of Toronto
Senior Scientist, University Health Network**

Dr. Ren-Ke Li, MD, PhD is a *Professor* of Medicine in the Department of Surgery, Division of Cardiac Surgery at the University of Toronto. Dr. Li is also a *Senior Scientist* at the Toronto General Research Institute, University Health Network working in the field of stem cell transplantation and tissue engineering. He is the recipient of the *Canada Research Chair* in Cardiac Regeneration (Tier 1) of the Canadian Institutes of Health Research and was a *Career Investigator* of the Heart and Stroke Foundation of Canada.

Dr. Li has been on the forefront in the field of cell transplantation and tissue engineering. In 1996, he published the first demonstration that cells transplanted into myocardial scar tissue survived, differentiated into muscle tissue, and improved heart function. Over 25 years his research group has defined muscle cell transplantation for Cardiac Repair, followed by stem cell transplantation for Cardiac Regeneration. Both cell repair and regeneration technologies have been translated to clinical application at Phase I and II levels. Since the patients with heart failure are aged population, currently, his research group is attempting to determine the mechanisms by which transplanted cells exert their beneficial effects by Rejuvenation of aged stem cells and aged recipients. Clarifying these mechanisms of Repair, Regeneration and Rejuvenation will allow them to develop the “next generation” of cell therapy for restoration of heart function of aged patients.

Because of his contribution to cardiovascular science, Dr. Ren-Ke Li was an elected Fellow of the Canadian Academy of Health Sciences, the International Academy of Cardiovascular Science and the Canadian Cardiovascular Society. He has received several national and international awards, including **Scientific Award**, Chinese American Medical Society; **Clemson Award for Applied Research**, Society for Biomaterials; **Professional Achievement Award**, Chinese Professionals Association of Canada; **The Queen Elizabeth II Diamond Jubilee Medal**, The Governor General of Canada; **Premier’s Research Excellence Award**, Ontario Ministry of Energy, Science and Technology; **Lister Prize**, University of Toronto; **Mel Silverman Mentorship Award**, University of Toronto. Dr. Li has published **232** peer-reviewed papers in very good Journals. He has been invited to contribute several commentaries and viewpoint articles and is an international opinion leader in his field.



33rd Annual Meeting of the Canadian Biomaterials Society

Winnipeg, Manitoba

Keynote Speaker



Friday May 26



8:30-9:30am

EITC E3-262

Functional Hydrogels for Biomedical Applications

Jason A. Burdick, PhD

**Professor
Department of Bioengineering
University of Pennsylvania**

Jason A. Burdick, PhD is a Professor of Bioengineering at the University of Pennsylvania. Dr. Burdick's research involves the development of hydrogels for various biological applications and his laboratory is specifically interested in understanding and controlling polymers on a molecular level to control overall macroscopic properties. The applications of his research range from controlling stem cell differentiation through material cues to fabricating scaffolding for regenerative medicine and tissue repair. Jason currently has over 200 peer-reviewed publications and has been awarded a K22 Scholar Development and Career Transition Award through the National Institutes of Health, an Early Career Award through the Coulter Foundation, a National Science Foundation CAREER award, a Packard Fellowship in Science and Engineering, and an American Heart Association Established Investigator Award. He is on the editorial boards of *Tissue Engineering*, *Biomacromolecules*, *Biofabrication*, and *Journal of Biomedical Materials Research A*, and is an Associate Editor for *ACS Biomaterials Science & Engineering*.



33rd Annual Meeting of the Canadian Biomaterials Society

Winnipeg, Manitoba

Keynote Speaker



Friday May 26

Clinician Keynote Speakers



11:00am -11:30am

EITC E3-270

Biomaterial Translational Medicine in China- From Lab Science to the Measures of Wound Care

Jun Wu, MD

Professor of Department of Burns
Southwest Hospital, The Third Military Medical University
The First Affiliated Hospital, Sun Yat-Sen University, China
Editor-in-Chief of Burns and Trauma

Regional Representative Southeast Asia, International Society for Burn Injury (ISBI)

Dr. Wu is Director of the Institute of Burn Research, Southwest Hospital, Third Military Medical University and the Director of Chongqing Key Lab for Diseases Proteomics. He is the Elected-president of Chinese Burn Association, the President of Chinese Burn Rehabilitation Association, President of Biophysics and Regeneration Medicine Association, and a member of the standing committee of Chinese Biomaterial Society.

Professor Wu established the International Symposium on Burn Rehabilitation and Wound Healing. He set up Chunmiao Charities Aid Foundation for Burned Children and Chunmiao Burn Camp to help burn children in 2012. He won second-class prize of the National Science and Technology Advancement in 2006 and the Williams Prize of Israel Burn Society in 1992. He has made important contribution to wound healing, regeneration, biomaterials and skin transplantation immunology.



33rd Annual Meeting of the Canadian Biomaterials Society

Winnipeg, Manitoba

Keynote Speaker



Friday May 26

Clinician Keynote Speakers



11:30am -12:00pm

EITC E3-270

miRacles for babies born with abnormal lung development and a hole in their diaphragm

Richard Keijzer, MD, MSc, PhD

Thorlakson Chair in Surgical Research
Associate Professor of Surgery,
Pediatrics & Child Health and Physiology & Pathophysiology
Pediatric Surgeon-Scientist

HSC Children's Hospital and Children's Hospital Research Institute of Manitoba

Dr. Keijzer's clinical interest concentrates on minimally invasive Pediatric Surgery and his research focuses on congenital anomalies in general and congenital diaphragmatic hernia and pulmonary hypoplasia in particular. He has expertise in mechanisms of normal and abnormal lung development associated with congenital diaphragmatic hernia (CDH).



33rd Annual Meeting of the Canadian Biomaterials Society

Winnipeg, Manitoba

Keynote Speaker



Friday May 26



1:15-2:15pm

EITC E3-270

Development of Bioinspired Multifunctional Materials Based on Controllable Intermolecular and surface interactions

Hongbo Zeng, PhD

Professor

**Department of Chemical and Materials Engineering
University of Alberta**

Hongbo Zeng is a Professor in the Department of Chemical and Materials Engineering at the University of Alberta, and holds a Canada Research Chair (Tier 1) in intermolecular forces and interfacial science. He received his BSc and MSc degrees in chemical engineering and polymer materials at Tsinghua University in 2001 and 2003, respectively, and obtained his PhD in chemical engineering at the University of California, Santa Barbara in 2007 under the supervision of Prof. Jacob Israelachvili and Prof. Matthew Tirrell. Prof. Zeng's research interests are in colloid and interface science, functional materials & nanotechnology, with a special focus on intermolecular and surface interactions in soft matter (e.g., polymers, biopolymers, biological systems, surfactants, and emulsions) and engineering processes. He has published over 150 peer-reviewed research articles in top journals, 11 conference papers, 7 book chapters on the related topics, coauthored/edited a book "Polymer Adhesion, Friction and Lubrication" (Wiley), and holds 9 patents. He was a recipient of the Materials Research Society (MRS) Graduate Research Award (Silver Medal) (2007), the Petro-Canada Young Innovator Award (2013), Martha Cook Piper Research Prize (2016), and The Canadian Journal of Chemical Engineering Lectureship Award (2016).



33rd Annual Meeting of the Canadian Biomaterials Society

Winnipeg, Manitoba

Keynote Speaker



Saturday May 27



8:30-9:30am

EITC E3-262

BIOENGINEERING FUNCTIONAL TISSUES FOR DRUG DISCOVERY AND THERAPY

Milica Radisic, PhD

**Professor (IBBME, ChemE)
Chemical Engineering & Applied Chemistry
University of Toronto**

Dr. Milica Radisic is Professor at the University of Toronto and Canada Research Chair (Tier 2) in Functional Cardiovascular Tissue Engineering. She obtained B.Eng. from McMaster University in 1999, and Ph.D. from the Massachusetts Institute of Technology in 2004, both in Chemical Engineering. She is a Fellow of the Canadian Academy of Engineering and a Fellow of the American Institute for Medical and Biological Engineering. Dr. Radisic received numerous awards and fellowships, including MIT Technology Review Top 35 Innovators under 35. In 2010, she was named “The One to Watch” by the Scientist and the Toronto Star; she also received McMaster Arch Award. She was a recipient of the Professional Engineers Ontario-Young Engineer Medal in 2011, Engineers Canada Young Engineer Achievement Award in 2012, Queen Elizabeth II Diamond Jubilee Medal in 2013 and NSERC E.W.R Steacie Fellowship in 2014. In 2014, she was elected to the Royal Society of Canada, College of New Scholars, Artists and Scientists. In 2015, she was awarded Hatch Innovation Award by the Canadian Society of Chemical Engineers. The long term objective of Dr. Radisic’s research is to enable cardiovascular regeneration through tissue engineering and development of new biomaterials. Her research interests also include microfluidic cell separation and development of in vitro models for drug testing. Dr. Radisic’s research is funded by: CIHR, NSERC, CFI, ORF, NIH, and the Heart and Stroke Foundation. She is an Associate Editor for ACS Biomaterials Science & Engineering, a member of the Editorial Board of Tissue Engineering and Advanced Drug Delivery Reviews. She serves on CIHR and NIH review panels. She is actively involved with BMES (Cardiovascular Track Chair in 2013 and 2014) and TERMIS-AM (Council member, Chair of the Membership Committee). Her research findings were presented in over 130 research papers, reviews and book chapters with h-index of 45 and over 7200 citations. She is a co-founder of a start-up company TARA Biosystems focused on the use of engineered tissues in drug development.

Full Program

Thursday May 25

8:15am -8:30am Opening Remarks by Dr. Jay Doering (EITC E3-270)
Associate Vice-President, University of Manitoba

8:30am -9:30am Keynote Speaker (E3-270)
Biomaterials for Regenerative Engineering Applications
Guillermo Ameer, Sc.D.

9:30am-10:00am Poster/Exhibition & Coffee Break (EITC Atrium)

10:00am-12:00pm Oral Presentation (Three parallel sessions S1/S2/S3)

S1: Cell - Biomaterial Interactions		EITC E3-270
Chair: Mahmoud Rouabhia; Co-chair: Neda Latifi		
10:00am	114049	Toll-like Receptor 2-mediated NF-kB Activation by Damage-associated Molecular Patterns on Biomaterial Surfaces McKiel, L; Fitzpatrick, L
10:15am	114162	Hybrid Crosslinking of Gelatin Methacrylate Hydrogel with Highly Tunable Stiffness and Degradation Rizwan, M; Peh, G; Ang, H; Lwin, N; Adnan, K; Mehta, J; Tan, W; Yim, E
10:30am	114217	Adipose Stem Cell-laden Injectable Thermosensitive Hydrogel Reconstructing Depressed Defects in Rats: Filler and Scaffold Wang, Y;Xiao,X;Lu,F; Zhong, W
10:45am	114064	Development of a Superior Decellularized Human Dermal Product for Advanced Wound Care: From Basic Science to Clinical Application Gratzer, P; Glazebrook, M
11:00am	114227	Effect of Residual Stress Caused by Nanosecond Laser Pulses on Cell-behavior of Mammalian Fibroblast Cells Kiani, A
11:15am	114086	Polymeric Delivery of siRNA against Integrin- β 1 (CD29) to Reduce Attachment and Migration of Breast Cancer Cells Meenakshi Sundaram, D; Kucharski, C; Parmar, M; Bahadur KC, R; Uludag, H
11:30am	114182	Electrochemical Corrosion Study on Novel Biodegradable Metals for Ureteral Stent Applications Champagne, S; Paramitha, D; Chabaud, S; Bolduc, S; Vedani, M; Hermawan, H

11:45am	114202	Single-step Loading of Cells into Nanofibrous Hydrogel Scaffolds via Reactive Electrospinning Xu, F; Dodd, M; Sheardown, H; Hoare, T
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S2: Cardiovascular Biomaterials		EITC E2-150
Chair: Ren-ke Li; Co-chair: Kaige Xu		
10:00am	114181	Comparing the Vascular Smooth Muscle Cell Differentiation Potential of Freshly-isolated vs. Cryopreserved Adipose Stromal Cells Zhang, X; Simmons, C; Santerre, P
10:15am	114106	Effect of Cell Seeding Density on the Mechanical and Structural Maturation of Collagen Gel-based Tubular Scaffolds for Vascular Tissue Engineering Camasao, D; Pezzoli, D; Loy, C; Levesque, L; Mantovani, D
10:30am	114110	Pleiotrophin/heparin-Modified Type 1 Collagen Gels for Improved Re-Endothelialisation Copes, F; Levesque, L; Boccafoschi, F; Mantovani, D
10:45am	114165	Differentiation of Mononuclear Cells From Cord Blood in Endothelial Cells Forming Colony Onto Bioactive Poly(ethylene terephthalate) Film for In Situ Endothelialization Royer, C; Bégin, A; Chevallier, P; Plawinski, L; Chanseau, C; Durrieu, M; Laroche, G
11:00am	114125	Development of a Biocompatible Upconversion Nanoparticle Model for Theranostic Applications in Anti-angiogenesis Tse, W; Zhang, J
11:15am	114260	Variable Expressions of Pro-Fibrotic Markers Observed in Primary Human Mesenchymal Cells Seeded in Decellularized Human Cardiac Extracellular Matrix Müller, A; Wu, Y; Freed, D
11:30am	114247	Mesenchymal Progenitor Cell Differentiation on Electrospun Poly (ester amide) Fibres for Vascular Tissue Engineering Kiros, S; Lin, S; Mequanint, K
11:45am	114223	Synthesis and Anticoagulant Activity of PCL-b-PHFBA Semifluoro Polymer Electrospun Nanofiber Mesh Wang, Y; He, W; Liu, M; Luo, G;

S3: Orthopedic Biomaterials		EITC E2-130
Chair: Rodrigo França; Co-chair: Qiang Chang		
10:00am	114242	Strength and Biocompatibility of Polycaprolactone-Borophosphosilicate Hybrid Biomaterials for Bone Tissue Engineering Mondal, D; Dixon, J; Rizkalla, A; Mequanint, K
10:15am	114115	Bioactive Glass Foams as Bone Graft Substitutes Charbonneau, C; Lefebvre, L; Mendes, V; Davies, J

10:30am	114070	BMP-2 and PDGF Gene Delivery to Rat Skull Periosteum and Bone-Derived Cells by PEI Non-Viral Carriers Tsekoura, E; Kaur, H; Samuel, R; Zabłudowski, R; KC, R; Uludag, H
10:45am	114236	A Novel Nanosilver/Nanosilica Hydrogel for Bone Regeneration in Infected Bone Defects Zhang, X; Xing, M
11:00am	114195	Effects of Metal Ion-induced Oxidative Stress on Interleukin-1beta Production in Macrophages In Vitro Ferko, M; Ertel, E; Ham, J; Kumar, K; Catelas, I
11:15am	114177	Evaporation-induced Surface Crystallization of Calcium Phosphate and Osteoclast Activity Chen S; Wang, R
11:30am	114249	The Interaction of Threads and Implant Microtopography on Implant Resistance to Reverse Torque Liddell, R; Ajami, E; Bajenova, E; Li, Y; Yang, Y; Davies, J
11:45am	114145	Layer-by-layer Paper-stacking Nanofibrous Membranes to Deliver Adipose-Derived Stem Cells for Bone Regeneration Xu, H; Zhong, W

12:00pm-1:00pm Lunch Break (EITC Atrium)

12:45pm-2:00pm CBS Annual General Meeting (EITC E3-270)

2:00pm-3:00pm Keynote Speaker (EITC E3-270)

Conductive Biomaterial Enhanced Electrical Propagation of Left Ventricular Scar to Attenuate Ventricular Arrhythmia
Ren-Ke Li, MD, PhD. FCAHS

3:00pm-4:00pm Oral Presentation (Three parallel sessions S4/S5/S6)

S4: Biomaterials for wound care		EITC E3-270
Chair: Jun Wu; Co-chair: Ying Wang		
3:00pm	114194	Investigating Infrared Photomodulation on Increased Cell Growth Rate of Human Corneal Epithelial Cells Tufenkji, N; Mohammadi, S; Roeper, A; Choi, D; Gorbet, M
3:15pm	114231	In-Situ-Generated Vasoactive Intestinal Peptide Loaded Microspheres in Mussel-Inspired Polycaprolactone Nanosheets Creating Spatiotemporal Releasing Microenvironment to Promote Wound Healing Singh, G; Xing, M
3:30pm	114253	A Novel Nano-silver Coated and Hydrogel-impregnated Polyurethane Nanofibrous Mesh for Ventral Hernia Repair Xu, K; Xing, M

3:45pm	114218	Surface Tension Guided Hanging-Drop: Producing Controllable 3D Spheroid of High-Passaged Human Dermal Papilla Cells and Forming Inductive Microtissues For Hair-follicle Regeneration Liu, B; Hu, Z; Xing, M
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S5: Biomaterials for Diagnostics		EITC E2-150
Chair: Ze Zhang; Co-chair: Mohammad Ali Darabi		
3:00pm	114108	Well-defined Hyaluronic Acid Based Hydrogels for Studying Primary Lymphoma Tumours Baker, A; Tam, R; Bahlmann, L; Shoichet, M
3:15pm	114147	Development of a Zebrafish-based Platform for Evaluating the Inflammatory Response to Implanted Biomaterials Chaplin, W; Fitzpatrick, L
3:30pm	114201	The Development of an In Vitro Co-culture Device for Bacterial Infection Studies Siddiqui, S; Tufenkji, N; Moraes, C

S6: Soft Biomaterials I		EITC E2-130
Chair: Kibret Mequanint; Co-chair: Yuqing Liu		
3:00pm	114107	Human Decellularized Adipose Tissue-derived Bead Foams Enhance the Survival and Angiogenic Response of Fibroblasts Isolated from Human Chronic Wounds in an In Vitro Chronic Wound Model Morissette Martin, P; Brown, C; Hamilton, D; Flynn, LE.
3:15pm	114212	3D Bioprinting of Engineered Chitosan Hydrogel Derakhshanfar, S; Xing, M
3:30pm	114160	Optimization of a Tissue-adhesive Gel with Rapid Gelation and Strong Mechanical Properties for Cell Therapy and Tissue Engineering Samaei, S; Guyot, C; Cerruti, M; Lerouge, S
3:45pm	114161	Injectable Mussel-inspired Immobilization of Platelet-rich Plasma on Microspheres Bridging Adipose Micro-tissues to Improve Autologous Fat Transplantation Chang, Q; Zhou, S; Lu, F; Xing, M

4:00pm-5:30pm

Poster session and Exhibition & Coffee Break (EITC Atrium)

6:00pm-8:30pm

Student Social Night (The Hub Social Club, University Center, University of Manitoba)

Friday May 26

8:30am -9:30am Keynote Speaker (EITC E3-262)

Functional Hydrogels for Biomedical Applications

Jason A. Burdick, PhD

9:30am-10:00am Coffee Break (EITC Atrium)

10:00am-11:00am Oral Presentation (Three parallel sessions S7/S8/S9)

S7: Polymeric Biomaterials		EITC E3-262
Chair: Brian Amsden; Co-chair: Gurankit Singh		
10:00am	114254	Injectable and Degradable Poly(Oligoethylene glycol methacrylate) Hydrogels With Tunable Charge Densities: Adhesive Peptide-Free Cell Scaffolds for Ophthalmic Applications Bakaic, E; Smeets, N; Dodd, M; Badv, M; Barrigar, O; Sheardown, H; Hoare, T
10:15am	114174	Influence of Fluorinated Divinyl Urethane Monomers on Resin Composite Chemical Biostability and Physical Properties Lagowski, M; Yang, M; Finer, Y; Santerre, JP
10:30am	114257	Anticoagulation and Anticalcification Properties of Sulfonated Chitosan Grafted Surface Campelo, C; Chevallier, P; Vieira, R; Mantovani, D
10:45am	114252	PLA Surface Functionalization: a First Step Toward Targeted Bioconjugation for Biomedical Applications Rodríguez Durán, I; Vanslambrouck, S; Chevallier, P; Hoesli, C; Laroche, G

S8: 3D printing in Biomaterials		EITC E2-150
Chair: Sophie Lerouge; Co-chair: Hui Xu		
10:00am	114198	Bioprinting of Alginate/Gelatin as Tunable Composite Hydrogels Directing Multicellular Tumor Spheroid Formation Jiang, T; Munguia-Lopez, J ; Grant, J; Vijayakumar, S ; Gu, K ; Bavoux, M; Torres, S; Leon-Rodriguez, A ; Kinsella, J
10:15am	114262	Skin-Inspired Multifunctional Autonomic-Intrinsic Conductive Self-Healing Hydrogels with Pressure Sensitivity, Stretchability and 3D Printability Darabi M; Xing, M
10:30am		Human Tissues on Demand with Next Generation 3D Bioprinting Mohamed, T

S9: Soft Biomaterials II		EITC E2-130
Chair: Evelyn Yim; Co-chair: Nima Khadem Mohtaram		
10:00am	114259	Identification and characterization of adhesive proteins in freshwater mussels for the development of novel bioadhesives

		Ng, J; Rees, D; Wojtas, M; Kizhakkedathu, J; Sone, E
10:15am	114095	Injectable chitosan hydrogels as embolizing and doxycycline delivery system for the treatment of abdominal aortic aneurysm Zehtabi F; Ispas-Szabo, P; Djerir, D; Sivakumaran, L; Annabi, B; Soulez, G; Mateescu, M; Lerouge, S
10:30am	114105	Injectable Thermosensitive Chitosan/Chondroitin Sulfate Hydrogels for Cell Therapy Alinejad, Y; Adoungotchodo, A; Hui, E; Zehtabi, F; Lerouge, S
10:45am	114100	The Modification of the Viscoelastic Mechanical Properties of Collagen Hydrogels by Creep Drouin, B; Mantovani, D

11:00am-12:00pm Clinician Keynote Speak (EITC E3-270)

- **Biomaterial Translational Medicine in China- From Lab Science to the Measures of Wound Care**
Jun Wu, MD
- **miRacles for babies born with abnormal lung development and a hole in their diaphragm**
Richard Keijzer, MD, MSc, PhD

12:15pm-1:15pm Industrial/clinician Lunch Workshop (EITC E3-270),
Chair: Thomas Willett, PhD

1:15pm-2:15pm: Keynote Speaker (EITC E3-270)
Development of Bioinspired Multifunctional Materials Based on Controllable Intermolecular and surface interactions
Hongbo Zeng, PhD

2:15pm-3:15pm: Oral Presentation (Three parallel sessions S10/S11/S12)

S10: Biomechanics		EITC E3-270
Chair: Thomas Willett; Co-chair: Dibakar Mondal		
2:15pm	114172	The effects of fluid viscosity on stress shielding in uniformly textured UHMWPE during the dwell phase of SDS motion Ippolito, C; Kamil, Y; Bryant, T
2:30pm	114210	Cellular Microarray Platform for Analyzing the Response of Cells in Three-Dimensional Matrix to Mechanical Stimuli Sakthivel, K; Sonnenberg, G; Stracovsky, L; Najjaran, H; Hoorfar, M; Kim, K
2:45pm	114122	A contact mechanics model for lumbar implant-natural frequency and damping ratio Hodaei, M; Maghoul, P; Wu, N
3:00pm	114209	Measurement of the Mechanical Properties of Native Type I Collagen Fibrils Using Atomic Force Microscopy Bao, G; Mongeau, L

S11: Biosensing and imaging		EITC E2-150
Chair: Wen Zhong; Co-chair: Karen Chan		
2:15pm	114085	Design and Analysis of a Piezoelectric Nano-composite Paint Osho, S; Wu, N; Ojo, O
2:30pm	114204	Highly Flexible and Resilient Elastin Hybrid Cryogels with Shape Memory, Injectability, Conductivity and Magnetic Responsive Properties Liu, Y; Xing, M
2:45pm	114139	Nanostructured Biosensor for Detecting Tear Glucose Chen, L; Tse, W; Chen, Y; McDonald, M; Melling, J; Zhang, J
3:00pm	114216	Laser-Generated Silica Nanofibers Embedded with Electrospun Gold Nanoparticles: A Novel Platform for Biocompatible Sensing Devices Kiani, A

S12: Soft Tissue Engineering		EITC E2-130
Chair: Lauren Flynn; Co-chair: Gad Sabbatier		
2:15pm	114136	Injectable Chitosan Hydrogels with High Mechanical Properties for IVD Regeneration Adoungotchodo, A; Alinejad, Y; Grant, M; Epure, L; Mwale, F; Lerouge, S
2:30pm	114097	Engineering Personalized Neural Tissue Using the Novel Functionalized Transcription Factor IASCL1 Robinson, M; Douglas, S; Vaidyanathan, R; Willerth, S
2:45pm	114186	Comparison of Loading Methods of an Antimicrobial Agent in electrospun PLGA Fibers Buck, E; Maisuria, V; Tufenkji, N; Cerruti, M
3:00pm	114112	Electrically conductive membrane promoted human keratinocyte proliferation and keratin's expressions Park, H; Zhang, Z; Douville, Y; Rouabhia, M

3:15pm-5:00pm NSERC Workshops & Coffee Break

Session 1: Workshop on Discovery Grant (EITC E2-150)

Caroline Bicker, NSERC Program Officer

Session 2: Workshop on Scholarships and Fellowships (EITC E2-130)

Catherine Harrison, NSERC Program Officer

6:00pm-9:30pm Conference Banquet (Prairie 360)

Charter buses leave EITC around 5:30-5:50pm

Charter buses leave Prairie 360 around 9:00pm- 9:40pm

Saturday May 27

8:30am-9:30am Keynote Speaker (EITC E3-262)

Bioengineering Functional Tissues for Drug Discovery and Therapy
Milica Radisic, PhD

9:30am-10:00am Coffee Break (EITC Atrium)

10:00am-12:15am Oral Presentation (Three parallel sessions S13/S14/S15)

S13: Polymeric Biomaterials		EITC E3-262
Chair: Hongbo Zeng; Co-chair: Fei Xu		
10:00am	114178	A PEG-Peptide Conjugate Can Controllably Polymerize in Blood to Increase Clot Adhesion Chan, K; Zhao, C; Siren, E; Chan, J; Boschman, J; Yeon, J; Kastrup, C
10:15am	114130	Influence of Argon Dielectric Barrier Discharges on Degradable Ethyl lactate Plasma Laurent, M; Desjardins, E; Meichelboeck, M; Naudé, N; Stafford, L; Gherardi, N; Laroche, G
10:30am	114134	High-throughput Fabrication of Cell-laden Gelatin Methacrylate Microgels for Tissue Engineering Mohamed, M; Kim, K
10:45am	114258	Electrospun Polyurethane-Gelatin Scaffolds for Manufacturing Skin Substitutes Sheikholeslam, M; Wright, M; Jeschke, M; Santerre, P; Amini-Nik, S
11:00am	114089	Self-assembling Peptide Matrix for Localized Stimulation of Tissue Resident Human Mast Cells in Skin Lu, L; Kulka, M; Unsworth, L
11:15am	114256	Development of Chitosan Coatings by Plasma-Grafting for Prevention of Contamination for Medical Devices Vaz, J; Chevallier, P; Beppu, M; Mantovani, D
11:30am	114059	Adsorption of Protein on an Au Surface Studied by All-Atom Atomistic Simulations Wei, A; Deng, C

S14: Drug Delivery		EITC E2-150
Chair: Todd Hoare; Co-chair: Eleni Tsekoura		
10:00am	114093	A Blended Hydrogel Scaffold for Vascular Endothelial Growth Factor Delivery Zhang, H; Catelas, I
10:15am	114152	pH-responsive, Antimicrobial-loaded Dressing for Recognition and Eradication of Bacterial Infection in Epidermal Wounds Mirani, B; Pagan, E; Akbari, M
10:30am	114143	Cytokine Loaded Layer-by-Layer Ultrathin Matrices to Deliver Single Dermal Papilla Cells for Spot-by-Spot Hair Follicle Regeneration Yang, R; Xing, M

10:45am	114087	Microfluidic Platform for The Synthesis of Nano-sized Liposomes Using Hydrodynamic Flow Focusing for Drug Delivery Amrani, S; Tabrizian, M
11:00am	114197	Effect of the Synthesis Process on the Physicochemical Properties of PLA-PEG Nanoparticles and their Drug Loading Rode García , T; Rabanel, J; Banquy, X
11:15am	114127	Influence of Linking Arm Hydrophilicity and Binding Sites on the Bioactivity of Surface-Immobilized Fibronectin Vanslambrouck, S; Chevallier, P; Guay-Bégin, A; Laroche, G
11:30am	114169	Development of a Thermoresponsive Homopolymer for Biomedical Applications Brissenden, A; Chen, F; Amsden, B
11:45am	114188	Immunomodulatory Hydrogel Microspheres as a Sustained Release System for Angiogenic Growth Factors Tawagi, E; Cheng, H; Santerre, P

S15: Stem Cells in Biomaterials		EITC E2-130
Chair: Stephanie Willerth; Co-chair: Francesco Copes		
10:00am	114183	Dynamic Stimulation of Alginate-Based Hydrogels to Differentiate Adipose-Derived Stem Cells Towards Nucleus Pulposus Cells Sabbatier, G; Séguin, C; Flynn, L; Simmons, C; Amsden, B
10:15am	114171	Defining the effect of endogenous tension on pancreatic differentiation of induced pluripotent stem cells Tran, R; Hoesli, C; Moraes, C
10:30am	114075	Cellular response to semi-ordered and biomimetic nanotubular surfaces Ho, W; Variola, F
10:45am	114193	3D Printed Drug-eluting Scaffolds for Neural Tissue Engineering Using Human Pluripotent Stem Cells Mirani, B; Styan, T; Khadem Mohtaram, N; Wong, S; Pagan, E; Bayati, A; Pedde, D; Willerth, S; Akbari, M
11:00am	114091	Development of a Dynamic Culture Pre-conditioning Strategy for Adipose-derived Stem/stromal Cells on Decellularized Adipose Tissue Bioscaffolds Han, T; Flynn, L
11:15am	114214	hMSCs Stem Cell Niche Mimic Through Peptide Micro & Nanostructuring Padiolleau, L; Chanseau, C; Ayela, C; Chevallier, P; Durrieu, M; Laroche, G
11:30am	114246	Mussel-inspired Alginate Gel Promoting the Osteogenic Differentiation of Mesenchymal Stem Cells and Anti-infection Mbeleck, R; Xing, M
11:45pm	114138	Commercialization Potential of Electrospun Scaffolds for the Future of Stem Cells Therapy Khadem Mohtaram, N; Shafieyan, Y; Ko, J; Jun, M; Willerth, S

12:00pm-1:00pm Awards/Conference closing (E3-262, Boxed Lunch)

LIST OF ABSTRACTS FOR POSTER PRESENTATION

114068	Development of an Injectable and Thermosensitive Chitosan Hydrogel for the Prevention of Post-surgical Abdominal Adhesions Hui, E; Ceccaldi C; Qi, S; Lerouge, S
114073	In vitro endothelial cell transfection using linear and branched poly(\hat{I}^2 -amino ester) nanoparticles DiStasio, N; Lehoux, S; Tabrizian, M
114084	Viability enhancement of hydrogel encapsulated mesenchymal stem cells by a short pharmacological treatment. Touani, K; Der Sarkissian, S; Noiseux, N; Lerouge, S
114092	A Novel Photo-initiated Small Intestine Submucosa Hydrogel for 3D Cell Culture in Tissue Engineering Liu, G; Liao J; Li, Q; Jiang, J; Cao, C
114096	Preparation of a Small Intestinal Submucosa Modified Polypropylene Hybrid Mesh via a Mussel-inspired Polydopamine Coating for Pelvic Reconstruction Ge, L; Liu L; Wei, H; Du L; Chen, S; Huang, Y; Huang, R
114099	Engineering of Biomimetic Vascular Substitutes by a Combinatorial Approach Boulanger, M; Elkhodiry, M; Vanslambrouck, S; Tanguay, J; Laroche, G; Hoesli, C
114102	Electrospun Polycaprolactone/Polyurethane Tubular Structures for Compliant Small-Diameter Vascular Grafts Bouchet, M; Maire, M; Gauthier, M; Ajji, A; Lerouge, S
114114	Topographic Quantification and Comparison of Titanium Implant and Osteoclast-Resorbed Human Bone Surfaces Ay, B; Davies, J
114119	Bioprinting Neural Tissue Thomas M; Wong, S; Pedde, D; Willerth, S
114124	Towards layer-by-layer manufacturing of engineered tissues Roza, G; McFee, M C.; Yadav, V G
114131	Unraveling the Relationship between Polyplex Dimensions and Transection Effectiveness Pezzoli, D; Giupponi, E; Mantovani, D; Candiani, G
114137	Investigating the response of human dermal and gingival fibroblasts to changes in substratum compliance: Implications for soft tissue biomaterials development. Brooks, S; Hamilton, D
114153	A Novel Mussle-Inspired Elastic and Conductive Cryogel for Muscle Tissue Engineering Wang, L; Qiu, X
114154	Non-Adhesive Wound Dressings for Enhanced Burn Wound Regeneration Kimmins, K; Vegh, A; Datu, A; Jeschke, M; Amini-Nik, S; Hatton, B
114156	Injectable Composite Chitosan Sponge for Cellular Encapsulation in Bone Repair Applications

	Jahan, K; Tabrizian, M
114167	Development of Bioactive Wound Dressing based on Oxidized Bacterial Cellulose Gurgel, N; Vieira, L; Andrade, F; Araujo, M; Borges, M; Mantovani, D; Vieira, R; Rosa, M
114175	Nano-Hydroxyapatite Particle Functionalization Using Amino Acids Comeau, PA; Willett, T
114176	Polycaprolactone as biodegradable polymer for the fabrication and In vitro release studies of purmorphamine-loaded microspheres to engineer neural tissue De la Vega Reyes, L; Agbay, A; Gomez, J; Sojonky, T; Wilson, K; Willerth, S
114179	Preparation and Characterization of Polymeric Scaffolds Containing Nano-Textured Eggshell Particles for Bone Regeneration Calvert, N; Proulx, S; Ahmed, T; Hincke, M; Catelas, I
114196	Modification of Poly(methyl methacrylate) Surfaces with Azobenzene Groups as a Photoswitchable Surface Clarke, A E; Angelatos, C; Wells, L A.
114203	Effect of Flash Sintering Temperature and Atmosphere on the Densification of Hydroxyapatite Kim, S
114208	The Effect of Concentration of Carbon Nanotubes (CNTs) on the Viability of Human Vocal Fold Fibroblasts Encapsulated in Composite Chitosan Glycol-CNT Hydrogels Ravanbakhsh, H; Latifi, N; Mongeau, L
114219	PKC-412 activates NF- κ B pathway and stimulates HIV-1 expression in latently infected cells Ao, Z; Zhou, R; Tan, X; Chen, L; Liu, S; Yao, X
114220	Rapid CRP detection using a paper microfluidic chip Dong, M; Wu, J; Ma, Z; Peretz-Soroka, H; Zhang, M; Komenda, P; Tangri, N; Liu, Y; Rigatto, C; Lin, F
114224	Silver nanoparticles decorated eggshell membrane: processing, cytotoxicity assessment and optimization, antibacterial activity and wound healing Liu, M; Wang, Y
114225	Light wood - lysozyme natural anti-infection material and its effects on wound healing Zhou, D; Qian, W; Yang, T; Liu, M; Wang, Y; Luo, G
114228	Potential Use of Laser Processed Titanium, Coated with Electrospun Polycaprolactone Fibers to Modify Thermal Properties of Dental Implants Kiani, A
114229	Evaluation of an early caries detection system based on integrated OCT and polarized Raman spectroscopy Ko, A
114230	Influence of titanium surface roughness on osteoclast adhesion, spreading and actin ring formation Abe, Y; Tenable, N; Sim, S; Dixon, S
114232	Design Optimization and Experimental Testing of a Customized Surface-Guided Total Knee

	Replacement Pejhan, S; Bohm, E; Brandt, J; Wyss, U
114233	Assessment of the Dentin Permeability for Targeted Drug Delivery using SPIONs. Ward, C; Esparza, I; Freire, I; França, R
114234	Study of Correlations between QCT and DXA Derived Femur Cross-Sectional Mechanical Properties Yang, H; Luo, YH
114235	Regulating gingival and dermal fibroblast phenotype by nanometric and micrometric substratum topography Tiedemann, M; Menant Tay, L
114238	Recombinant human proteoglycan 4 releasing in situ cross-linking hyaluronic acid hydrogels for reducing post-surgical adhesions Prosperi-Porta, G; Regmi, S; Morin, A; Schmidt, T
114241	Adhesive Strength of Surgical Adhesives on Porcine Vocal Fold Tissue Chen, LC; Rammal, M; Latifi, N; Wang, H; Barthelat, F; Mongeau, L
114245	Biosynthesized Cellulose for Use as Novel Drug Delivery System to Stimulate Brain Tissue Regeneration after Stroke Stumpf, TR; Patrick, F; Cao, X
114255	Engineering Vascularized Tissue Constructs with Sacrificial Thermoreversible Hydrogels using a Custom 3D Bioprinter and Angiogenesis-inducing Multipotent Stromal Cells (MSCs) Fitzsimmons, R; Aquilino, M; Quigley, J; Tarlan, F; Chebotarev, O; Simmons, C
114261	An In Vitro Tear Replenishing Cornea Model: Drug Eluting Contact Lenses Mohammadi, S; Jones, L; Gorbet, M
114263	Customizing Lipopolymers for Efficient siRNA Delivery to Different Leukemia Cells Ansari, A; KC, R; Kucharski, C; Uludag, H
114264	Engineering a Vascularised Encapsulation Device for the Treatment of Type 1 Diabetes Fernandez, S; Bégin-Drolet, A ; Ruel, J; Leask, R; Hoesli, CA.
	Frontiers in Biomaterials and Tissue Engineering CBS-Kingston Student Chapter
	Validation of the 3DBioRing™ Airway – a 3D Bioprinted Contractile Smooth Muscle Tissue Samuel, W; Simon, B; Sheng, P; Katherine, T; Tamer, M
	Multi-material 3D Bioprinting with a Lab-on-a-Printer™ Fused Filament Fabrication Platform Technology Konrad, W; Simon, B; Tamer, M; Sheng, P; Ajay, R; Samuel, W

33rd Annual Meeting of the Canadian Biomaterials Society, Winnipeg, Manitoba, May 24-27, 2017

TENTATIVE PROGRAM AT_A_GLANCE

University of Manitoba, EITC building (Faculty of Engineering)

	Wednesday, May 24	Thursday, May 25			Friday, May 26			Saturday, May 27										
8:15		Opening Remarks																
8:30		Keynote Speak: Dr. Guillermo Ameer (Northwest University)			Keynote Speak: Dr. Jason A. Burdick (University of Pennsylvania)			Keynote Speak: Dr. Milica Radisic (University of Toronto)										
8:45																		
9:00																		
9:15																		
9:30		Coffee Break (EITC Atrium)			Coffee Break (EITC Atrium)			Coffee Break (EITC Atrium)										
9:45		Posters/Exhibition Open			Posters/Exhibition Open			Posters/Exhibition Open										
10:00		S1	S2	S3	S7	S8	S9	S13	S14	S15								
10:15		Cell-biomaterials	Cardiovascular	Orthopedic	Polymeric	3D printing	Soft material2	Polymeric Biomaterials	Drug Delivery	Stem cells in TE								
10:30																		
10:45																		
11:00																		
11:15																		
11:30					Keynote: Clinician (Dr. Jun Wu)													
11:45					Keynote: Clinician (Dr. Richard Keijzer)													
12:00		Lunch (EITC Atrium)						Awards/Conference closing Boxed Lunch										
12:15		Posters/Exhibition Open			Industrial/clinician Lunch Workshop													
12:30																		
12:45		CBS Annual General Meeting																
13:00																		
13:15																		
13:30																		
13:45																		
14:00		Keynote Speak: Dr. Renke Li (University of Toronto)			Keynote Speak: Dr. Hongbo Zeng (University of Alberta)													
14:15					S10	S11	S12											
14:30					Biomechanic	Biosensing	Soft TE											
14:45																		
15:00		S4	S5	S6														
15:15		Wound care	Diagnostics	Soft material1	Coffee Break													
15:30																		
15:45					NSERC Workshops: Discovery (E2-150) Scholarships and Fellowships (E2-130)													
16:00		Poster Session and Exhibition (EITC Atrium, coffee break)																
16:15																		
16:30	Registration (EITC Atrium)																	
16:45	Welcome Reception																	
17:00	starts at 6pm																	
18:00	(Food, drink & refreshments)	Student Social Night (The Hub, University Center)			Conference banquet (Prairie 360) Charter Buses provided													
19:00																		
20:00																		
21:00																		



UNIVERSITY OF MANITOBA

FORT GARRY CAMPUS

- Parkade (Public Parking)
 - Meter Parking
 - Public Parking (Pay & Display)
 - Public Parking (Evenings & Weekdays)
 - Accessible Parking*
 - Motorcycle Parking*
 - Reserved Parking Areas*
 - Staff Parking*
 - Student Parking*
 - Residence Parking (24h)
 - Student Residences
 - Taxi Stand
 - Campus Security
 - Emergency Code Blue Telephones
 - Handi-Transit Pickup
 - Fort Garry Campus Shuttle (September to April)
 - Transit Bus Stops
 - 2012 - 2013 Construction Sites
 - University of Manitoba Food Services (some locations open during regular season only)
 - Other Food Services
- *U of M Permit Required from 7:30 am - 4:30 pm



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