



Inaugural Advanced Biomedical Materials CDT Conference

9th December 2020

10:00 - 10:10	Welcome and Introduction - Professor Sarah Cartmell, CDT Director and Head of Department of Materials
10:10 – 10.50 (20:10 AEST)	Keynote Speaker 1 - Professor Mia Woodruff Queensland University of Technology Title of Talk: TBC (30 minutes of presentation with 10 mins of Q&A) Chaired by Professor Julie Gough
10.50 - 11:20	Presentations from CDT Students (2019 start) (3 min presentation with 2 min Q&A) Chaired by Davide Verdolino & Dom Williams
	Rob Bagley Title: Development of a nappy for the detection of cytomegalovirus in the urine of neonates
	Caitlin Jackson Title: Lab-based produced vascularised tissue for in vitro lab on a chip models of healthy and diseased tissue
	Liam Johnson Title: Flexible On-Skin Electronics for Conscious Mouse Electrocardiography
	Grace McDermott Title: 3D Bioprinting Tissue Engineered Meniscal Constructs
	Leona Ogene Title: Graphene based bioinks for 3D printing bioactive articular cartilage implants
11:20 – 11.45	Presentations from CDT Students (2020 start) Chaired by Davide Verdolino & Dom Williams (2 min presentation no Q&A)
	Rebecca Steele Title: Development of graphene containing 3D printed scaffolds for orthopaedic applications.
	Marcin Gwiazda Title: Development of Artificial Retinas for the Treatment of Degenerative Eye Disease and the Augmentation of Human Vision
	Raissa Barroso Title: Optical detection of airborne fungal pathogens

	<p>Kathryn Dickins Title: The Development of Drug-eluting Electrospun Devices for Clinical Applications in Gynaecology</p>
	<p>Rebecca Hanson Title: A novel 3D osteochondral scaffold with mechano-identical properties of the native tissue for <i>in situ</i> tissue regeneration</p>
	<p>Gregor Mack Title: Development of a smart disposable point-of-care device for ocular and systemic disease diagnosis</p>
11.45 -12.45	Lunch Break
12.45 - 12.55	Afternoon Introduction - Professor John Haycock
12.55 - 13.35 (7.55am EST)	<p>Keynote Speaker 2 - Professor Milica Radisic, University of Toronto Instructive biomaterials for healing and regeneration (30 minutes of presentation with 10 mins of Q&A) Chaired by: Professor John Haycock</p>
13.35 – 13.55	<p>Presentations from CDT Students (2019 start) Chaired by Liam Johnson & Leone Ogene (3 min presentation with 2 min Q&A)</p>
	<p>Davide Verdolino: Title: Understanding the mechanisms of action of collagen-based wound dressings to promote healing</p>
	<p>Dom Williams: Title: Allogenic ACL tissue – polymeric scaffold hybrid for ACL regeneration</p>
	<p>Yasmine Osmani: Title: 3D Printing of Anthropomorphic Phantoms for MRI guided radiotherapy</p>
13.55 – 14.10	<p>Presentations from CDT Students (2020 start) Chaired by Liam Johnson & Leone Ogene (2 min presentation no questions)</p>
	<p>Thomas Jepson Integration of polymeric 3D scaffolds within a perfused organ-on-a-chip system for the development of a soft organ model</p>
	<p>Rachel Furnidge Title: Regenerating the oral mucosa in patients with MRONJ using synthetic poly(glycerol sebacate) scaffolds and uncultured adipose cells.</p>
	<p>Matt Graham Title: Engineering a smart biomaterial composite with hierarchical architecture for ligament repair and regeneration</p>
	<p>Harry Lord-Moulding Title: Graphene Oxide for Musculoskeletal Tissue Engineering</p>
14.10 – 14.30	Closing Remarks - Professor Sarah Cartmell