

THE HERSON BIOFABRICATION INSTITUTE

Inaugural Conference 2019



building

real world

clinical impact

RBWH Education Centre
22 March 2019

2019 Herston Biofabrication Institute Conference – Speakers



Dr Mark Allenby
QUT Advance Queensland Fellow - Vascular Program
Biofabrication for personalised vascular surgery prognosis, training, and treatment



Dr Catherine Ball
Scientist, Innovator, Champion of Diversity, MC



Dr Arixin Bo
QUT ECR
Mechanical property investigation of PCL based scaffolds and composite



Dr Jason Brown
MNHHS - Burns Clinical Program Lead
Biofabrication in Burns Treatments



Adj A/Prof Scott Crowe
MNHHS/QUT - Cancer Care Clinical Program Lead
Improving radiation oncology with 3D printing and biofabrication



A/Prof Leila Cuttle
QUT Lead Researcher - Burns Clinical Program
Treating burn wounds - past, present and future



Ms Mathilde Desselle
QUT HBI Project Manager
Augmented and virtual reality serious games – The Hospital of the Future



Mr Shaun Drummond
CEO, Metro North Hospital & Health Service



Mr David Forrestal
QUT ECR
Bioreactors for cell culture of large patient-specific scaffolds



Mr Nicholas Green
MNHHS – Orthopaedic Clinical Program
3D Modelling Workshop



Prof YuanTong Gu
QUT Lead Reseracher - Vascular Clinical Program
Computer-aided optimal design, analysis and assessment of customized stents and scaffolds



Prof Damien Harkin
QUT Lead Researcher - Tissue Regeneration
Reconstruction of Skin and Ocular Tissues



Mr Icaro Ibanez-Arricivita
QUT Fashion & Design Lecturer
Hospital of the Future
Fashion Collection



Dr Jason Jenkins
MNHHS - Vascular Clinical Program Lead
Driving Clinical Innovation through Partnerships



Dr Elena Juan Pardo
QUT Lead Researcher - Vascular Clinical Program
Advanced Biofabrication Strategies for Cardiovascular Applications



A/Prof Travis Klein
QUT Lead Researcher - Orthopaedics Program
Biofabrication in cartilage regeneration



Mr Matthew Lanaro
QUT PhD student
Advanced Additive Manufacturing Methods for Biomaterials and Medical Devices



Prof Zhiyong Li
QUT Lead Researcher - Vascular Clinical Program
QUT Cardiovascular Engineering Laboratory research programs



Dr Asha Mathew
QUT Advance Queensland Fellow - Orthopaedics
Biofabrication of bactericidal orthopaedic implants



Prof Mark Midwinter
UQ, Jamieson Trauma Institute
AR for Telepresence



Miss Naomi Paxton
QUT PhD student
Biomaterials for Patient-Specific Surgical Implants



Dr Sean Powell
QUT Advance Queensland Fellow - Burns Program
3D healthcare technologies for better burns and trauma treatment



Ms Maureen Ross
QUT PhD student - 3D Scanning & Modelling for Microtia Treatments



Dr Nicholas Rukin
MNHHS - Urology Clinical Program Lead
Biofabrication and urological surgery



Dr Kevin Tetsworth
MNHHS - Orthopaedics Clinical Program Lead
Biofabrication in Orthopaedics



A/Prof Makrina Totsika
QUT Lead Researcher – Infection
Infections and antimicrobial resistance: Biofabrication implications in a post-antibiotic era



Prof Mia Woodruff
QUT Acting Director HBI
Introduction to the Herston Biofabrication Institute

2019 Herston Biofabrication Institute Conference – Program

8:55am – 10:30am	INTRODUCTIONS Conference MC: Dr Catherine Ball Welcome to Country Official Welcome Hon Cameron Dick MP, Minister for State Development, Manufacturing, Infrastructure & Planning Welcome from QUT Prof Arun Sharma, Deputy Vice-Chancellor and Vice President (Research and Innovation) Welcome from MNHHS Mr Shaun Drummond, CEO MNHHS Introduction of Herston Biofabrication Institute Prof Mia Woodruff, Acting Director of HBI Introduction to Medical Device Innovation Design Challenge Keynote Speech Mr Dale Trevor	All-Day Sponsor Exhibition & Poster Display Foyer
10:30am – 11:00am	MORNING TEA Poster Session 1	3D Modelling Workshop Room 1 VR Hospital of the Future Game Room 2 Recruitment Speed Dating Event Foyer
11:00am – 12:45pm	BURNS CLINICAL PROGRAM Dr Jason Brown Driving Clinical Innovation through Partnerships Dr Sean Powell 3D Healthcare Technologies for Better Burns and Trauma Treatment A/Prof Leila Cuttle Treating Burn Wounds - Past, Present and Future Prof Damien Harkin Reconstruction of Skin and Ocular Tissues Ms Maureen Ross Biofabrication approaches to Facial Prostheses and Other Medical Devices Dr Mark Midwinter , Jamieson Trauma Institute Augmented and Virtual Reality in Clinical Practice - A Future Norm ORTHOPAEDIC CLINICAL PROGRAM Dr Kevin Tetsworth Biofabrication for Orthopaedic Surgery A/Prof Travis Klein Biofabrication in Cartilage Regeneration Dr Asha Mathew Biofabrication of Bactericidal Orthopaedic Implants Dr David Forrestal Bioreactors for Cell Culture of Large Patient-Specific Scaffolds Mr Matthew Lanaro Advanced Additive Manufacturing Methods for Biomaterials and Medical Devices Ms Naomi Paxton Biomaterials for Patient-Specific Surgical Implants	All-Day Sponsor Exhibition & Poster Display Foyer
12:45pm – 1:45pm	LUNCH Poster Session 2	VR Hospital of the Future Game Room 2 Recruitment Speed Dating Event Foyer
1:45pm – 3:30pm	VASCULAR CLINICAL PROGRAM Dr Jason Jenkins Biofabrication for Vascular and Endovascular Surgery Prof YuanTong Gu Computer-aided Optimal Design, Analysis and Assessment of Customized Stents and Scaffolds Dr Elena Juan Pardo Advanced Biofabrication Strategies for Cardiovascular Applications Prof Zhiyong Li QUT Cardiovascular Engineering Laboratory Research Programs Dr Mark Allenby Biofabrication for Personalised Vascular Surgery prognosis, Training and Treatment Dr Arixin Bo Mechanical Property Investigation of PCL Based Scaffolds and composite Medical Device Innovation Design Challenge Award sponsored by Cook Medical & Konica Minolta	All-Day Sponsor Exhibition & Poster Display Foyer
3:30pm – 3:50pm	AFTERNOON TEA Poster Session 3 - Poster Award sponsored by Konica Minolta	All-Day Sponsor Exhibition & Poster Display Foyer
3:50pm – 5:00pm	A/Prof Makrina Totsika Infections and Antimicrobial Resistance: Implications for Biofabrication in the post-antibiotic era Dr Nick Rukin Biofabrication and Urological Surgery Adj A/Prof Scott Crowe Improving Radiation Oncology with 3D Printing and Biofabrication Hospital of the Future Fashion Collection Award Presentation Mr Shaun Drummond & Sponsors Conference Close & Vote of Thanks	All-Day Sponsor Exhibition & Poster Display Foyer
5:00pm – 6:00pm	NETWORKING DRINKS sponsored by Microsoft	

2019 Herston Biofabrication Institute Conference – Special Sessions



Hospital of the Future Fashion Collection

A collection of hospital of the future-inspired clothing for staff and patients

Presented by QUT Creative Industries students (Fashion Design Studio 5 DFH501 unit),
Directed by **Icaro Ibanez-Arricivita**



Medical Device Innovation Design Challenge

Addressing clinical challenges from HBI Clinical Programs

Presented by QUT



Industry Speed Dating Session

Industry and student networking opportunities

In partnership with the QUT Fellowship of Medical Engineers (FoMe)



The Hospital of the Future in Augmented and Virtual Reality

Microsoft HoloLens and HTC Vive games demo

With **Mathilde Desselle**, in partnership with QUT EECS Games Design and Interactive Environments (BGIE)



Anatomical 3D Modelling Workshop

From 3D imaging data to patient-specific devices and implants

Presented by **Nick Green**, QUT Industrial Design Alumni, 3D Medical Modeller at RBWH

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