

# Workshop on Targeting Tissue, Melbourne, Australia



## PROGRAMM

Thursday 31<sup>st</sup> January

TIME	AGENDA	SPEAKER
<b>13:00</b>	<b><i>Start of Workshop</i></b>	
	Welcome / Agenda and Aim of Workshop Introduction of Participants	Thomas Scheibel Melanie Pöhlmann
<b>13:20</b>	<b><i>Flash Talk Session -DRUG DELIVERY-</i></b>	
	Drug Delivery Pitch 1 Drug Delivery Pitch 2 Drug Delivery Pitch 3 Drug Delivery Pitch 4 Drug Delivery Pitch 5 Drug Delivery Pitch 6 Drug Delivery Pitch 7 Drug Delivery Pitch 8 <b>Discussion ( Strengths, Challenges, Synergies)</b>	Greg Qiao Frank Caruso Thomas Scheibel Francesca Cavaliere Anna Cifuentes Boon Teo Georgina Such Kristian Kempe <b>Frank Caruso</b>
<b>14:10</b>	<b><i>Flash Talk Session -ANTIMICROBIAL SURFACES-</i></b>	
	Antimicrobial Surfaces Pitch 1 Antimicrobial Surfaces Pitch 2 Antimicrobial Surfaces Pitch 3 Antimicrobial Surfaces Pitch 4 Antimicrobial Surfaces Pitch 5 <b>Discussion (Strengths, Challenges, Synergies)</b>	Helmut Thissen Greg Qiao Thomas Scheibel Andrea O'Connor Laurence Meagher <b>Greg Qiao</b>
<b>14:45</b>	<b><i>-AFTERNOON TEA-</i></b>	
<b>15:15</b>	<b><i>Flash Talk Session -TISSUE ENGINEERING-</i></b>	
	Tissue Engineering Pitch 1 Tissue Engineering Pitch 2 Tissue Engineering Pitch 3 Tissue Engineering Pitch 4 Tissue Engineering Pitch 5 Tissue Engineering Pitch 6 Tissue Engineering Pitch 7 Tissue Engineering Pitch 8 Tissue Engineering Pitch 9 Tissue Engineering Pitch 10 Tissue Engineering Pitch 11 <b>Discussion (Strengths, Challenges, Synergies)</b>	Veronica Glattauer Andrea O'Connor Greg Qiao Sally McArthur Namita Choudhury Harald Janoviak Caroline Gargett Brooke Farrugia Daniel Heath Neil Cameron John Forsyth <b>Andrea O'Connor</b>

<b>16:25</b>	<b>Flash Talk Session - BIOFABRICATION -</b>	
	Biofabrication Pitch 1	Thomas Scheibel
	Biofabrication Pitch 2	Gregor Lang
	Biofabrication Pitch 3	Sahar Salehi
	<b>Discussion (Strengths, Challenges, Synergies)</b>	<b>Thomas Scheibel</b>
<b>16:45 ~17:00</b>	<b>Round Table End of Workshop</b>	

## Friday 1<sup>st</sup> February

<b>TIME</b>	<b>AGENDA</b>	<b>SPEAKER</b>
09:00	<b>1<sup>st</sup> February 2019 START 9:00</b>	
	Wrap Up 1 <sup>st</sup> Day & Focus / Aim 2 <sup>nd</sup> Day	Qiao/ Scheibel
09:15	<b>Funding Opportunities</b>	
	International Training Research Groups (IRTG DFG funded scheme)	Melanie Pöhlmann
	Funding Opportunities in Australia Discussion	Rep. Uni Melbourne
09:45	<b>Infrastructure, Centers and Projects at Partner Sites ( could be visited on 13th/14th February)</b>	
	University of Bayreuth	Thomas Scheibel
	University of Melbourne	Qiao / O'Connor
	Monash University	Neil Cameron
	CSIRO	Veronica Glattauer
	Swinburne University	Sally McArthur
	RMIT	Namita Choudhury
<b>10:45</b>	<b>MORNING TEA</b>	
11:15	<b>Themed Round Table Discussions</b>	
	1) Drug Delivery & Antimicrobial Surfaces	Group 1
	2) Tissue Engineering & Biofabrication	Group 2
	Summary of Results & Joint Discussion	
<b>13:00</b>	<b>LIGHT LUNCH &amp; END OF WORKSHOP</b>	

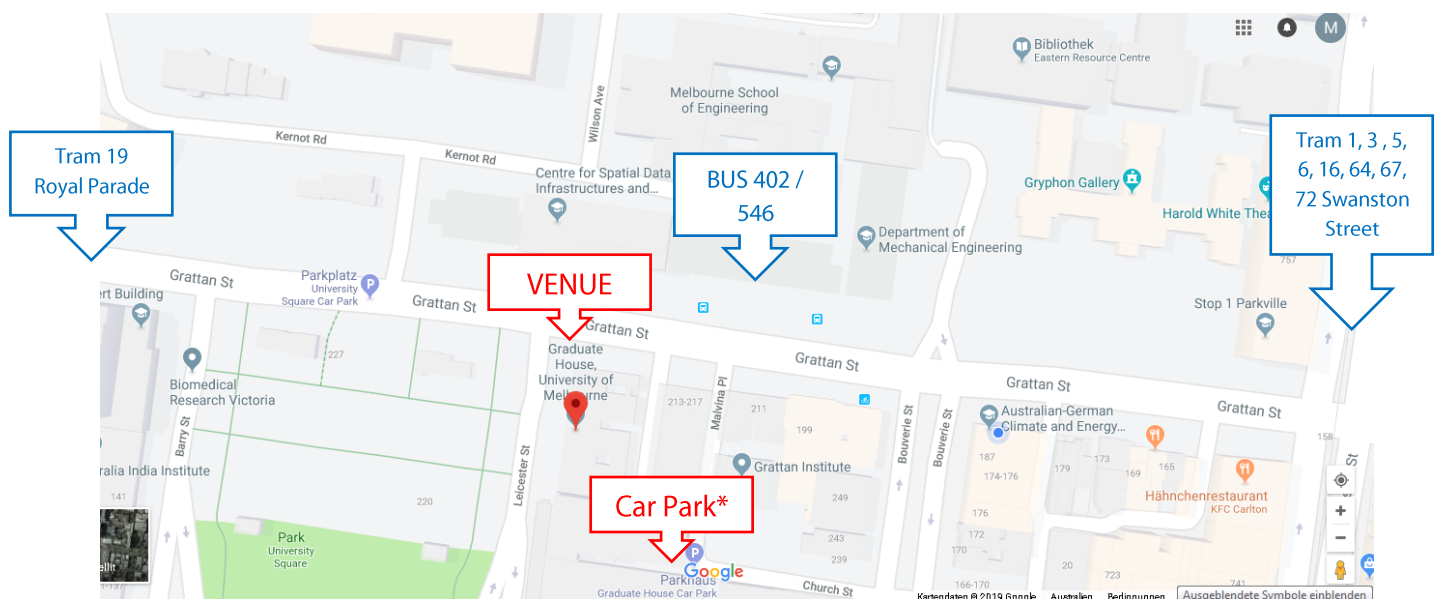


## Venue for TARGETING TISSUE WORKSHOP



**Venue** Cochran & Talyor Room (on the right side after the reception)  
[Graduate House](#)  
220 Leicester Street  
Carlton, Victoria

**Time** Thursday 31<sup>st</sup> January 2019 – 13:00 -17:00  
Friday 1<sup>st</sup> February 2019 – 9:00-12:30



## Scientific Workshop Organizers



**Veronica Glattauer**, *CSIRO*

*Biomedical Manufacturing, Cell Material Interactions Team Leader, Senior Research Scientist*  
Protein based Materials, Biomaterials and Tissue Engineering Science



**Prof. Dr. Andrea O'Connor**, *The University of Melbourne*

*Tissue Engineering Group, Deputy Head of the School of Chemical and Biomedical Engineering*  
3D printing, antimicrobial materials, biofilms, biomaterials (Biodegradable materials, scaffolds, hydrogels), medical devices (Implants), tissue engineering



**Prof. Dr. Greg Qiao**, *The University of Melbourne*

*Macromolecular Chemistry and Engineering, Assistant Dean (Research) in the Melbourne School of Engineering, Deputy Head of the Department of Chemical and Biomolecular Engineering*  
Synthetic polymer science and engineering, polymerization techniques, nano- and hydrogels, tissue engineering



**Prof. Dr. Frank Caruso**, *The University of Melbourne*

*Department of Chemical Engineering, NHMRC Senior Principal Research Fellow, Deputy Director ARC Centre of Excellence on Convergent Bio-Nano Science and Technology*  
Colloids and Interfaces



**Prof. Dr. Thomas Scheibel**, *University of Bayreuth*

*Chair of Biomaterials, Faculty of Engineering Science*  
*Vice President Internationalisation, Gender Equality & Diversity*  
Protein-based Materials



**Prof. Dr. Gregor Lang**, *University of Bayreuth*

*Biopolymer Processing, University of Bayreuth*  
*Faculty of Engineering Science*  
Production and Processing of Natural and Bio-inspired Polymeric Materials



**Dr. Sahar Salehi**, *University of Bayreuth*

*Biomaterials, University of Bayreuth*  
*Junior Group Leader "Biomaterials for Tissue Engineering"*  
Biomaterials and Tissue Engineering Science

## Confirmed Speakers



**Dr. Daniel Heath**, *The University of Melbourne*

*Biomaterials and Tissue Engineering, Biomedical Engineering*

Blood-material interactions, Decellularization, Endothelialization of biomaterials, Extracellular matrix materials



**Dr. Francesca Cavalieri**, *The University of Melbourne*

*Chemical and Biomolecular Engineering, The University of Melbourne*

*Vice Chancellor Senior Fellow, Faculty of Science, RMIT University*

Biomaterials Synthesis and Characterization, Cell-Biomaterials Interaction, Supramolecular Assembly of Natural & Synthetic Polymers



**Dr. Georgina Such**, *The University of Melbourne*

*Senior Lecturer School of Chemistry*

Nanotechnology, Polymers and Self-Assembly, Biomedical Engineering



**Dr. Anna Cifuentes (Prof. Nico Völcker group)**, *Monash University*

*Scientific Director, Melbourne Center for Nanofabrication and*

*Monash Institute of Pharmaceutical Sciences (MIPS) / CSIRO*

Nanotechnology, Biomaterials, Biosensors, Drug Delivery



**Dr. Helmut Thissen**, *CSIRO Manufacturing*

*Team Leader, Biomedical Manufacturing*

Control of biointerfacial interactions for applications in medical devices and biosensors



**Professor Neil Cameron**, *Monash University*

*Acting Head, Materials Science and Engineering*

*Department of Materials Science and Engineering*

Novel polymeric biomaterials for application in areas including tissue engineering, regenerative medicine and drug delivery



**A/Professor John Forsythe**, *Monash University*

*Associate Professor, Materials Science and Engineering*

*Department of Materials Science and Engineering*

Scaffolds for brain and spinal cord repair, Nano-fibrous electrospun scaffolds, Interaction of stem cells on biopolymer substrates, Electrospinning, Light responsive hydrogels, Bioprinting



**Dr. Boon Mian Teo**, *Monash University*

*Lecturer, School of Chemistry*

Emulsion Polymerisation, Janus Particles, Pickering Emulsions, Sonochemistry, Ultrasound as diagnostics and therapeutic device, Microbubbles, Liposomes as Drug Carriers, Gold Nanoparticles



**Prof. Alan Lau**, Swinburne University

*Pro-Vice-Chancellor (Research Performance and Development), Faculty of Science, Engineering and Technology Nanomaterials; Nanostructured Materials; Construction Materials; Nanostructured Materials*



**Prof. Sally McArthur**, CSIRO & Swinburne University

*CSIRO Research+ Science Leader Manufacturing; Biomedical Engineering*

Materials, surface engineering, physical science, analytical chemistry and biochemistry, 3D tissue model systems as new in vitro test platforms for the biomaterials, pharmaceutical and medical/bio technologies sectors.



**Prof. Namita Choudhury**, RMIT University

*Professor of Engineering*

*Chemical and Environmental Engineering, School of Engineering Cluster*

Polymer Engineering and Science, Colloid and Polymer Science, Interfacial Engineering, Surface Coating, Biomimetic Protein Polymer, Graphene hybrids & Ink, Elastic Gel, Advanced polymer for Energy and Biomedical Applications



**AProf. Harald Janoviak**, Monash University

*Australian Regenerative Medicine Institute, Monash University*

Interface of synthetic biology and mammalian physiology in the new research field synthetic physiology.



**Prof. Caroline Gargett**, Hudson Institute of Medical Research, Head, Endometrial Stem Cell Biology

*Laboratory, Professor and Postgraduate Coordinator, Department of Obstetrics and Gynaecology, Monash University, Deputy Director, The Ritchie Centre (Women's Health), Hudson Institute of Medical Research*

Endometrial mesenchymal stem/stromal cells for a tissue engineering application in pelvic floor prolapse surgery



**Dr. Brooke Farrugia**, University of Melbourne

*Senior Lecturer University of Melbourne*

*Biomedical Engineering*

Biomimetic materials, Mast Cells, Proteoglycans and Glycosaminoglycans, Tissue Regeneration & Wound healing



**Dr. Kristian Kempe**

*Group Leader Monash Institute of Pharmaceutical Sciences*

Nanotechnology, Polymer Synthesis, Materials Chemistry



**Prof. Laurence Meagher**

*Deputy Director/Director of Research, Monash Institute of Medical Engineering & Professor, Materials Science and Engineering, Monash University*

Medical Engineering, Materials Science, Surface modification, surface characterisation, biomedical implants, drug delivery, cell culture surfaces, surface initiated polymerisation, controlled radical polymerisation, antimicrobial materials, biomedical materials, electrospinning, biodegradable polymers, polymer brush coatings, atomic force microscopy, haemopoietic stem cells, mesenchymal stem cells, pluripotent stem cells, cell therapies, hydrophobic forces, bioactive small molecules, bioactive peptides, stem cell culture surfaces.



## Attendees

Prof. Jerome Werkmeister	<i>The Ritchie Centre, Hudson Institute of Medical Research, Monash University</i>
Prof. Naba Dutta	<i>School of Chemical and Environmental Engineering, RMIT</i>
Dr. Shayanti Mukherjee	<i>Postdoctoral Scientist, Endometrial Stem Cell Biology, Hudson Institute of Medical Research, Monash University (Gargett Group)</i>
Dr. Ashley Murphy	<i>Postdoctoral Research Fellow, Materials Science and Engineering Monash University (Cooperation Partner Veronica Glattauer)</i>
Dr Melissa Werrett	<i>Post-Doc Prof. Phil Andrew's Group, School of Chemistry, Monash University</i>
Dr Liam Stephens	<i>Post-Doc Prof. Phil Andrew's Group, School of Chemistry, Monash University</i>
Dr. Fatemeh Karimi	<i>Post-Doc Prof. Greg Qiao's Group, Chemical Engineering, The Melbourne University</i>
Dr. Javad Jafari	<i>Post-Doc Prof. Andrea O'Connor's Group, Chemical Engineering, The Melbourne University</i>
Kallyanashis Paul	<i>PhD Candidate, PhD Student, The Ritchie Centre, Hudson Institute of Medical Research, Monash University, (Gargett Group)</i>
David Sonnleitner	<i>PhD Candidate, University of Bayreuth, Biopolymer Processing, University of Bayreuth, Faculty of Engineering Science (Lang Group)</i>
Vanessa Trossmann	<i>PhD Candidate, University of Bayreuth, Biopolymer Processing, University of Bayreuth, Faculty of Engineering Science (Scheibel Group)</i>
Sarah Lentz	<i>PhD Candidate, University of Bayreuth, Biopolymer Processing, University of Bayreuth, Faculty of Engineering Science (Scheibel Group)</i>
Anika Prinz / Frank Caruso	<i>Prof. Dr. Marc Schneider's Group, Biopharmaceutics and Pharmaceutical Technology, Universität des Saarlandes (Germany); Visiting Student Frank Caruso's Group, The University of Melbourne</i>
Dr. Melanie Pöhlmann	<i>Project Coordinator Bayreuth-Melbourne Colloid-Polymer Network, International Office, University of Bayreuth</i>



