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| **QRW Programme**  **Regenerative Medicine and Tissue Engineering**  Thursday 5 September – Friday 6 September, 2019  Rydges Hotel, Queenstown, New Zealand |

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| **Thursday 5 September** | | |
| **Time** | **Details** | **Location** |
| **Musculoskeletal Regeneration 1**  **Chaired by Jill Cornish (University of Auckland) and Nicholas Ashton (University of Utah).** | | |
| 8.30am – 8.45am | **Jill Cornish (R1)**  University of Auckland  *Innovative new strategies in skeletal regenerative medicine* | **QT Von Rm** |
| 8.45am - 9.00am | **Scott Bolam (R2)**  University of Auckland  *Creating and Evaluating a Novel Sheep Abductor Tendon Tear Model* | **QT Von Rm** |
| 9.00am - 9.30am | **Aaron Schindeler (R3)**  Westmead Children’s Hospital, Sydney  *Gene editing tools for functional genomics and gene editing* | **QT Von Rm** |
| 9.30am – 9.45am | **Alistair Lock (R24)**  Waitemata District Health Board  *The Role of in vitro Immune Response Assessment for Biomaterials* | **QT Von Rm** |
| 9.45am – 10.00am | **Emma Buckels (R25)**  University of Auckland  *Preptin knockout mice have increased bone volume without overt metabolic changes* | **QT Von Rm** |
| 10.00am - 10.30am | **Morning Tea** | **Trade Area** |
| **Regenerative Medicine Techniques**  **Chaired by Elena De-Juan-Pardo (University of Western Australia).** | | |
| 10.30am - 11.00am | **Matthew Porteus (R4)**  Stanford University  *Efficient Engineering of IPS Cells using Genome Editing* | **QT Von Rm** |
| 11.00am- 11.30am | **Sally McArthur (R5)**  Swinburne University of Technology  *Challenges in characterizing tissues in 4D* | **QT Von Rm** |
| 11.30am - 12.00pm | **Anna Brooks (R6)**  University of Auckland  *Dissecting cellular heterogeneity of the human adipose tissue-derived stromal vascular fraction using single cell technologies* | **QT Von Rm** |
| 12.00pm - 12.30pm | **Alex Dixon (R7)**  University of Auckland  *Non-destructive imaging of collagen architecture in biological membranes* | **QT Von Rm** |
| 12.30pm – 1.30pm | **Lunch** | **Trade Area** |
| **Neural and Cardiovascular Regeneration**  **Chaired by: Haruna Suzuki-Kerr (University of Auckland) and Dawn Coates (University of Otago)** | | |
| 1.30pm - 2.00pm | **Simon O’Carroll (R8)**  University of Auckland  *Modulation of chondroitinase sulphate proteoglycans combined with exercise rehabilitation leads to axonal regeneration and functional improvement after spinal cord injury* | **QT Von Rm** |
| 2.00pm - 2.30pm | **Andrew Clarkson (R9)**  University of Otago  *Use of biomaterials to enhance neural tissue regeneration* | **QT Von Rm** |
| 2.30pm - 3.00pm | **Khoon Lim (R10)**  University of Otago  *Photo-click Gelatin-Norbornene Hydrogels for Biofabrication of Vascularized Tissue* | **QT Von Rm** |
| 3.00pm - 3.10pm | **Anthony Yee-Goh (R26)**  University of Otago  *Adipose Stem Cells Versus Cardiac Progenitor Cells: The Better Candidate for Cardiovascular Disease* | **QT Von Rm** |
| 3.10pm – 3.20pm | **Alireza Tavakolinejad (R27)**  *Gene and protein expression of endogenous serine proteases and protease inhibitors in alveolar epithelial cells* | **QT Von Rm** |
| 3.20pm – 3.30pm | **Steve Waqanivavalagi (R28)**  University of Auckland  *Non-invasive imaging of pericardium using micro-CT* | **QT Von Rm** |
| 3.30pm - 4.00pm | **Afternoon Tea** | **Trade Area** |
| **Biomaterials**  **Chaired by Jaydee Cabral (University of Otago) and Leonardo Negron (Callaghan Innovation).** | | |
| 4.00pm - 4.30pm | **Laura Domigan (R11)**  University of Auckland  *Lens protein biomaterials for use in ocular surgery* | **QT Von Rm** |
| 4.30pm - 5.00pm | **Sandi Dempsey (R12)**  Aroa Biosurgery  *Isolation and Identification of a Trophic Factor for Mesenchymal Stem Cells; a Functional Decorin Protein Fragment Cleaved from Ovine Forestomach Matrix by Macrophage Cells* | **QT Von Rm** |
| 5.00pm - 5.30pm | **Mathew Cumming (R13)**  Plant and Food, Nelson  *Marine-derived collagen and gelatin: Expanding the ingredients pantry for biomaterial fabrication* | **QT Von Rm** |
| 5.30pm - 5.45pm | **Dina Abdelmonein (R29)**  University of Otago  *Efficacy and safety of alpha lipoic acid-capped silver nanoparticles for oral application* | **QT Von Rm** |
| 5.45pm – 6.00pm | **Sailakshmi Velamoor (R30)**  AgResearch  *Investigating the structural assembly of keratins in biological materials using electron microscopy* | **QT Von Rm** |
| 7.00pm - 10.00pm | **Social function** | **Smiths Craft Beer House**  53 Shotover St |

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| **Friday 6 September** | | |
| **Time** | **Details** | **Location** |
| **Musculoskeletal Regeneration 2**  **Chaired by Brya Matthews (University of Auckland).** | | |
| 8.30am - 9.00am | **Warwick Duncan (R14)**  University of Otago  *Regeneration for dental implant therapy: clinical requirements and preclinical models* | **QT Von Rm** |
| 9.00am – 9.30am | **Nicholas Ashton (R15)**  University of Utah  *Targeting Bacterial Biofilms in Translational Research* | **QT Von Rm** |
| 9.30am – 9.40am | **Stu Irwin (R31)**  University of Auckland  *Limitations of in vivo bioluminescent imaging of S. aureus Xen36 biofilm-based Infection* | **QT Von Rm** |
| 9.40am – 10.00am | **Ellison Aldrich (R16)**  Massey University  *The Horse as a Model and Translational Stepping Stone in Orthopaedic Research* | **QT Von Rm** |
| 10.00am - 10.30am | **Morning Tea** | **Trade Area** |
| **Biofabrication**  **Chaired by Khoon Lim (University of Otago).** | | |
| 10.30am - 11.00am | **Elena De-Juan-Pardo (R17)**  University of Western Australia  *Melt electrowriting: An emerging additive biomanufacturing technique for soft tissue engineering* | **QT Von Rm** |
| 11.00am- 11.30am | **Tim Woodfield (R18)**  University of Otago  *Biofabrication of the Musculoskeletal Tissue Niche: Tissue Spheroid and Bioink Platforms* | **QT Von Rm** |
| 11.30am - 11.45am | **Bram Soliman (R32)**  University of Otago  *Two-step ruthenium-catalysed bioprinting of low-viscous cell-instructive bioinks as a platform for tissue-specific bioink development* | **QT Von Rm** |
| 11.45am - 12.00pm | **Cesar Alcala (R33)**  University of Otago  *High fidelity bioprinting of nanocomposite bioinks supporting osteogenic and angiogenic tissue formation* | **QT Von Rm** |
| 12.00pm - 12.10pm | **Emily Lam Po Tang (R34)**  University of Auckland  *The effects of different buffers on the physico-mechanical properties of gelatin-methacryloyl (GelMA) hydrogels* | **QT Von Rm** |
| 12.10pm – 12.20pm | **Minami Yoshida (R35)**  University of Otago  *Development and in vitro biocompatibility of 3D printed scaffolds for intervertebral disc tissue engineering* | **QT Von Rm** |
| 12.30pm – 1.30pm | **Lunch** | **Trade Area** |
| **Stem Cells**  **Chaired by Billy Sheppard (University of Auckland).** | | |
| 1.30pm - 2.00pm | **Ed Stanley (R19)**  Murdoch Children's Research Institute  *Investigating the Immunology of Type 1 Diabetes using Pluripotent Stem Cells* | **QT Von Rm** |
| 2.00pm - 2.30pm | **Brya Matthews (R20)**  University of Auckland  *Identification and tracking of periosteal progenitors during fracture healing* | **QT Von Rm** |
| 2.30pm – 3.00pm | **Dawn Coates (R21)**  University of Otago  *Stem cells for regenerative medicine in dentistry* | **QT Von Rm** |
| 3.00pm - 3.15pm | **Sarah Meidinger (R36)**  University of Auckland  *Developing CRISPR/Cas9 gene-editing methods to generate patient-specific, gene-edited skin substitutes for patients with Epidermolysis bullosa* | **QT Von Rm** |
| 3.15pm - 3.30pm | **Zhen Dong (R37)**  University of Otago  *Identification of stem cell biomarkers using deer antler as a model of mammalian organ regeneration* | **QT Von Rm** |
| 3.30pm - 4.00pm | **Afternoon Tea** | **Level 5 Lobby** |
| **Skin and Wound Healing**  **Chaired by.** | | |
| 4.00pm - 4.30pm | **Swee Tan (R22)**  Gilles McIndoe Research Institute  *Radical concepts underscore paradigm shifts – from enigmatic infantile haemangioma to cancer* | **QT Von Rm** |
| 4.30pm - 5.00pm | **Vaughn Feisst (R23)**  University of Auckland  *Intelligently Engineered Skin* | **QT Von Rm** |
| 5.00pm - 5.15pm | **Jaydee Cabral (R38)**  University of Otago  *Wound healing biomaterials as cell and drug delivery vehicles* | **QT Von Rm** |