**MEDSCI NZ PROGRAMME**

**2018**

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| **ORGANISING COMMITTEE** |  |  |
| Dr Marie Ward (Co-Chair)Dr Joanne Davidson (Co-Chair)Dr Rebecca Campbell (Co-vice chair)Dr Jeff Erickson (Co-vice chair)Dr Justin Dean A/Prof Rajesh Katare (PSNZ)Prof Allan Herbison (CNE)A/Prof Greg Anderson (NZSE)Prof Ahmed Al-Jumaily (Biomed Tech)Dr Andrew LoweA/Prof Loulin HuangDr June-Chiew Han (ABI) | University of AucklandUniversity of AucklandUniversity of Otago University of Otago University of AucklandUniversity of OtagoUniversity of OtagoUniversity of OtagoAuckland University of TechnologyAuckland University of TechnologyAuckland University of TechnologyUniversity of Auckland | m.ward@auckland.ac.nzjoanne.davidson@auckland.ac.nzrebecca.campbell@otago.ac.nzjeff.erickson@otago.ac.nzj.dean@auckland.ac.nzrajesh.katare@otago.ac.nzallan.herbison@otago.ac.nzgreg.anderson@anatomy.otago.ac.nz ahmed.aljumaily@aut.ac.nzandrew.lowe@aut.ac.nzloulin.huang@aut.ac.nzj.han@auckland.ac.nz |
| **CONFERENCE MANAGERS** |  |
|  | If you have any queries regarding MedSci or Queenstown, please contact Dinamics at the Registration Desk.Phone: +64 27 450 2611Email: elizabeth@dinamics.co.nzWebsite: <http://www.dinamics.co.nz/> |
| **MedSci 2018 Programme at a glance** |
| **Monday 27th August 2018** |
| 4:00 pm – 6:00 pm | **Medsci Poster session** |
| 6.00 pm – 6.15 pm | Opening: Peter Shepherd, Queenstown Research Week Chair |
| 6.15 pm – 7.00 pm | Queenstown Research Week Plenary Lecture:  |
| 7.00 pm – 9.00 pm | QRW Social |

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| **Tuesday 28th August 2018 – Societies Day** |
| 9.00 am – 10.00 am | MedSci Plenary Lecture: Dee Silverthorn |
| 10.00 am – 10.30 am | Morning Tea |
| 10.30 am – 12.30 pm | Session 1A:**PSNZ Bullivant Prize Finalists** | Session 1B:**NZSE Nancy Sirett Lecture and Student Oral Award Finalists** | Session 1C**IBTec Student Oral Award Finalists and Free Communications** |
| 12.30 pm – 1.30 pm | Lunch and separate PSNZ and NZSE AGM’s |
| 1:30 – 2:30 | Plenary Lecture: James Pearson,  |  |
| 2.30 pm – 3.30 pm | Session 2A:**PSNZ Hubbard Prize Finalists** | Session 2B:**Free Communications** |
| 3.30 pm – 4.00 pm | Afternoon Tea |
| 4.00 pm – 5.00 pm | **Free Communications and PSNZ Presentations/Awards** | **Session 3B:** Workshop: Ongoing challenges in teaching medical sciences |
| 5.00 – 6.00 pm | Session 3A:**Free Communications and PSNZ Presentations/Awards** | Session 3B:**Free Communications and PSNZ Presentations/Awards** |
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| 7.00 pm  | MedSci Dinner + Prize-giving (Crowne Plaza Hotel 360 Restaurant) |

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| **Wednesday 29th August 2018 – Symposia Day** |
| 9.00 am – 10.00 am | MedSci Plenary Lecture: Simon Malpas |
| 10.00 am – 10.30 am | Morning Tea |
| 10.30 am – 12.30 pm | Symposium 1A (PSNZ): Perinatal brain damage & neurotherapeutic strategies | Symposium 1B (IBTec): Respiratory Diagnostics and Therapies |
| 12.30 pm – 1.30 pm | Lunch and MedSci AGM |  |
| 1.30 pm – 3.30 pm | Symposium 2A (PSNZ): Mechanobiology in health & disease | Symposium 2B (CNE): Hormones & social behaviours |
| 3.30 pm – 4.00 pm | Afternoon Tea |  |
| 4.00 pm – 6.00 pm | Symposium 3A (ABI): Super-resolution microscopy: Biology at the nanoscale | Symposium 3B (NZSE): Uterine function and dysfunction |
| 6.00 – 8.00 pm | Mixer |  |
| 7.00 pm | Fashionomics |

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| **Monday 27th August 2018****QRW Opening Night Speaker** |
| **4:00 – 6:00** | **MEDSCI POSTER SESSION** |
| **6.00 pm -6.15 pm**  | **Opening****Peter Shepherd, Queenstown Research Week Chair****Queenstown Room, Level 5, Rydges Hotel** |
| **6.15 pm -7.00 pm** | **Queenstown Research Week Plenary Lecture****Queenstown Room, Level 5, Rydges Hotel****Chair: Peter Shepherd** |
| **7.00 pm -9.00 pm** | **Queenstown Research Week Welcome Function****Trades Area, Level 4, Rydges Hotel** |

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| 4:00 pm – 6:00 pm | **Medsci Poster session** |
| 6.00 pm – 6.15 pm | Opening: Peter Shepherd, Queenstown Research Week Chair |
| 6.15 pm – 7.00 pm | QRW Lecture: |
| 7.00 pm – 9.00 pm | QRW Social |

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| **Tuesday 28th August 2018****MedSci Plenary Lecture, Societies’ Free Communications** |
| **MedSci Plenary Lecture** |
| **9.00 am** **-** **10.00 am** | **Dee Silverthorn** *The future of teaching: creating our scientists***Chair: Tony MacKnight** |
| **10.00 am - 10.30 am** | **Morning Tea: Trade Exhibition Area, Level 4** |
| **Societies’ Presentations** |
| **10.30 am - 12.30 am** | Session 1A:**PSNZ Bullivant Prize Finalists****Clancys Room, Level 5****Chairs:** Joanne Davidson & Michelle Munro | Session 1B:**NZSE Nancy Sirett Lecture and Student Oral Award Finalists** (*sponsored by Medi’Ray)***Room: TBA****Chairs:** Greg Anderson &Eulalia Coutinho | Session 1C**IBTec Student Oral Award Finalists and Free Communications****Room: TBA****Chairs:** Andrew Lowe & Dr Gautam Anand |
| 10.30 am - 10.45 am | **1A.1 Bullivant Prize Contestant 1:** | **1B.1 Nancy Sirett Lecture:**Prof Jillian Cornish, University of Auckland *Osteoporosis* | **1C.1 IBTec Prize Contestant 1**:  |
| 10.45 am -11.00 am | **1A.2 Bullivant Prize Contestant 2:** | **1C.2 IBTec Prize Contestant 2:**  |
| 11.00 am - 11.15 am | **1A.3 Bullivant Prize Contestant 3:**  | **1C.3**  |
| 11.15am - 11.30 am | **1A.4 Bullivant Prize Contestant 4:**  | **1C.4**  |
| 11.30 am - 11.45 am | **1A.5 Bullivant Prize Contestant 5:**  | **1B.2 NZSE Prize Contestant 1**: | **1C.5**  |
| 11.45 am - 12.00 pm | **1A.6 Bullivant Prize Contestant 6:**  | **1B.3 NZSE Prize Contestant 2:** | **1C.6**  |
| 12.00 pm -12.15 pm | **1A.7 Bullivant Prize Contestant 7:**  | **1B.4 NZSE Prize Contestant 3**: | **1C.7**  |
| 12.15 pm - 12.30 pm | **1A.8 Bullivant Prize Contestant 8:**  | **1B.5 NZSE Prize Contestant 4**: | **1C.8 n/a** |
| 12.30 pm | **PSNZ AGM –**  | **NZSE AGM –**  |
| **12.30 pm - 1.30 pm** | **Lunch: Trade Exhibition Area, Level 4, Rydges Hotel** |
| **Societies’ Presentations** |
| **1.30 pm** | **Plenary Lecture James Pearson****Chair: Daryl Schwenke** |
| **2:30 - 3.30 pm** | Session 2A**PSNZ Bullivant Prize Finalists (continued)****PSNZ Hubbard Prize Finalists****Clancys Room, Level 5****Chairs:** Rajesh Katare | Session 2B**Free Communications****Room: TBA****Chairs:** Angus Grey  |
| 1.30 pm - 1.45 pm | **2A.1 Hubbard Prize Contestant 1:**  | **2B.1**  |
| 1.45 pm - 2.00 pm |  | **2B.2**  |
| 2.00 pm - 2.15 pm | **2A.2: Hubbard Prize Contestant 2** | **2B.3**  |
| 2.15 pm - 2.30 pm | **2B.4**  |
| 2.30 pm - 2.45 pm | **2A.4: Early-Career Prize Contestant 1:** | **2B.5**  |
| 2.45 pm - 3.00 pm | **2B.6**  |
| 3.00 pm - 3.15 pm | **2A.5: Early-Career Prize Contestant 2:** | **2B.7**  |
| 3.15 pm - 3.30 pm | **2B.8**  |
| **3.30 pm - 4.00 pm** | **Coffee Break: Trade Exhibition Area, Level 4, Rydges Hotel** |
| **Societies’ Presentations** |
| **4.00 pm -6.00 pm** | **Session 3A** Free Communications and PSNZ **Clancys Room, Level 5****Chairs:** Marie Ward& Jeff Erickson | **Session 3B**Workshop: Ongoing challenges in teaching medical sciences**Chair:** Grant Butt |
| 4.00 pm - 4.15 pm | **3A.1 Mid Career Prize contestant** | 4.00 pm - 5.00 pm |
| 4.15 pm - 4.30 pm |  | A/Prof Diane KenwrightDr Amanda Charlton |
| 4.30 pm – 4:45 pm | **3A.2 Bjorn Knollman** |  |
| 4.45 pm - 5.00 pm | **3A.3** **3A.4** **3A.5** **3A.6**  |  |
| 5.00 pm - 5.15 pm | **Infoblitz Presentations & free communications****Chairs:** Carolyn Barrett &Lorna Daniels  |
| 5.15 pm – 5.30 pm |  |
| 5.30 pm – 5.45 pm5:45 pm– 6:00 pm |  |
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| **7.00 pm** | MedSci Dinner + Prize-giving (Crowne Plaza Hotel 360 Restaurant) |

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|  |  **Wednesday** **MedSci Plenary Lecture and Societies’ Symposia,** |
|  | **MedSci Plenary Lecture**  |
| **9.00 am** **-** **10.00 am** |  |

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| **Simon Malpas** *Commercialising research; problems, pitfalls and potential* |

**Chair: Colin Brown** |
| **10.00 am - 10.30 am** |  | **Morning Tea: Trade Exhibition Area, Ground Floor** |
|  | **Societies’ Symposia** |
| **10.30 am - 12.30 pm** | **Symposium 1A (PSNZ):** Perinatal Brain Damage and Neurotherapeutic Strategies**Clancys Room, Level 5****Chairs:** Dr. Guido Wassink & Dr. Joanne Davidson | **10.30 am - 12.30 pm** | **Symposium 1B (IBTec):** *Respiratory Diagnostics and Therapies***Room: TBA****Chairs:** Ahmed Al-Jumaily & Andrew Lowe |
| 10.30 am - 11.00 am | **S1A.1:** Associate Professor Suzie Miller, Ritchie Centre, Hudson Institute of Medical Research, Australia*Stem cell therapies for treating perinatal brain damage* | 10.30 am - 11.00 am | **S1B.1:** David Kaczka, University of Iowa, USA*Optimizing ventilation in the injured lung using multifrequency oscillation* |
| 11.00 am - 11.30 am | **S1A.2:** Dr Bobbi Fleiss, Centre for the Developing Brain, King College London, United Kingdom*What brakes the preterm brain - a role for perinatal infection?* | 11.00 am – 11.30 am | **S1B.2:** Peter Noble, University of Western Australia*Targeting airway stiffness to treat obstructive disease* |
| 11.30 am - 12.00 pm | **S1A.3:** Dr Max Berry, University of Otago*The preterm paradox – greater survival but worse outcomes* | 11.30 am - 12.00 pm | **S1B.3:** Prudence Murray, Fisher and Paykel Healthcare*SleepStrong - Experiences of an Employee Sleep Health Wellness Initiative* |
| 12.00 pm - 12.30 pm | **S1A.4:** Dr Guido Wassink, University of Auckland*Protecting the newborn brain – are cocktails better served with ice?* | 12.00 pm - 12.30 pm | **S1B.4:** Ian Sun, Fisher and Paykel Healthcare*New Trends in CPAP development*  |
| 12.30 pm | **MedSci AGM – Queenstown Room** |  |  |
| **12.30 pm - 1.30 pm** |  | **Lunch: Trade Exhibition Area, Level 4, Rydges Hotel** |
|  | **Societies’ Symposia** |
| **1.30 pm –** **3.30 pm** | **Symposium 2A (PSNZ)**: *Mechanobiology in health and disease* **Clancys Room, Level 5****Chair:** Martin Fronius & TBA | **1.30 pm** **–** **3.30 pm** | **Symposium 2B (CNE):** *Hormones and social behaviours***Room: TBA****Chair:** Dave Grattan & Elodie Desroziers |
| 1.30 pm – 2.00 pm | **S2A.1:** Prof Jens Waschke, University Munich, Germany*Modulation of tissue integrity via stabilization of desmosomes in health and disease*  | 1.30 pm – 2.00 pm | **S2B.1:** Dr Kumi Kuroda, Riken Brain Sciences Institute, Tokyo, Japan*Role of oxytocin in the neural mechanisms that mediate parenting and attachment* |
| 2.00 pm – 2.30 pm | **S2A.2:** Prof Heather Drummond, University of Mississippi, USA*Vascular epithelial Na+ channels mediate myogenic arterial responsiveness* | 2.00 pm – 2.30 pm | **S2B.2:** Dr Michael Bowen, University of Sydney, Australia *Rebalancing the addicted brain: prosocial compounds for treating substance use disorders* |
| 2.30 pm –3.00 pm | **S2A.3:** Prof John Evans, University of Otago, Christchurch*An alliance of Biophysics, Biochemistry and Genetics initiates cancers* | 2.30 pm –3.00 pm | **S2B.3:** Dr Kristina Smiley, University of Otago*Prolactin and parental care in the Zebra Finch* |
| 3.00 pm – 3.30 pm | **S2A.4:** Dr Adam Ware, University of Otago, Dunedin*The Role of ENaC in Breast Cancer* | 3.00 pm - 3.30 pm | **S2B.4:** Dr Rosemary Brown, University of Otago*Prolactin action in the preoptic region is essential for maternal behaviour in mice* |
| **3.30 pm –****4.00 pm** |  | **Coffee Break: Trade Exhibition Area, Level 4** |
|  | **Societies’ Symposia** |
| **4.00pm****-****6.00pm** | **Symposium 3A (ABI):** Super-resolution Microscopy: Biology at the Nanoscale**Clancys Room, Level 5****Chairs:** David Crossman & June-Chiew Han | **4.00pm****-****6.00pm** | **Symposium 3B (NZSE):** Uterine function and dysfunction**Room: TBA****Chairs:** Jane Girling & Stephen Bunn |
| 4.00 pm – 4.40 pm | **S3A.1:** Professor Robert Gourdie, Virginia Tech Carilion Research Institute*Nanodomains and Electrical Conduction at Cardiac Gap Junctions* | 4.00 pm - 4.30 pm | **S3B.1:** Pradep Tanwar, University of Newcastle*Endometrial cancer / fibroids* |
| 4.40 pm – 5.00 pm | ***S3A.2:*** Associate Professor Johanna Montgomery, University of Auckland*Elucidating Nanoscale Determinants of Synaptic Function* | 4.30 pm - 5.00 pm | **S3B.2:** Jane Girling, University of Otago*Endometriosis* |
| 5.00 pm – 5.20 pm | **S3A.3:** Dr Michelle Munro, University of Otago*Super Resolved Calcium Channel Organization* | 5.00 pm - 5.30 pm | **S3B.3:** Laura Parry, University of Melbourne*Relaxin / preeclampsia* |
| 5.20 pm – 5:40 pm | **S3A.4:** Dr David Baddeley, University of Auckland*Nanoscopy of the 4D Nucleome* | 5:30 pm – 6:00 | **S3B.4:** J Frank Bloomfield, Liggins Inst, University of Auckland*Preterm birth or fetal growth* |
| 5.40 pm – 6.00 pm | **S3A.4**: Dr David Crossman, University of Auckland *Fibrosis at the Nanoscale in the Failing Human Heart* |  |  |
| **6.00 pm –** **8.00 pm** |  | **Combined MedSci, QMB, AWCBR Mixer****Trades Area, Level 4, Rydges Hotel****Level 5 Foyer, Rydges Hotel** |
|  | **NZSE Posters** |
| M1 |  |  |
| M2 |  |  |
| M3 |  |  |
| M4 |  |  |
|  | **IBTec Posters** |
| M5 |  |  |
| M6 |  |  |
| M7 |  |  |
|  | **ABI Posters** |
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| M10 |  |  |
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|  | **MedSci Posters**  |
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| M16 |  |  |
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| M18 |  |  |
| M19 |  |  |
|  | **Physiological Society of New Zealand Posters** (**\***PSNZ Student Poster Presentation Prize candidate) |
| M20 |  |  |
| M21 |  |  |
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| M34 |  |  |
| **8.00 pm –**  |  | **Fashionomics***Sponsored by Thermo Fisher Scientific***Trades Area, Level 4, Rydges Hotel****(with drinks)** |