**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 Lowe  A/Prof Loulin Huang  Dr June-Chiew Han (ABI) | | University of Auckland  University of Auckland  University of Otago  University of Otago  University of Auckland  University of Otago  University of Otago  University of Otago  Auckland University of Technology  Auckland University of Technology  Auckland University of Technology  University of Auckland | | [m.ward@auckland.ac.nz](mailto:m.ward@auckland.ac.nz)  [joanne.davidson@auckland.ac.nz](mailto:joanne.davidson@auckland.ac.nz)  rebecca.campbell@otago.ac.nz  jeff.erickson@otago.ac.nz  [j.dean@auckland.ac.nz](mailto:j.dean@auckland.ac.nz)  rajesh.katare@otago.ac.nz  allan.herbison@otago.ac.nz  greg.anderson@anatomy.otago.ac.nz  ahmed.aljumaily@aut.ac.nz  andrew.lowe@aut.ac.nz  loulin.huang@aut.ac.nz  j.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 2611  Email: elizabeth@dinamics.co.nz  Website: <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 Kenwright  Dr 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 pm  5:45 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** |  | | | |  | | --- | | **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** | | | | | |
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|  | | | **MedSci Posters** | | | | | |
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|  | | | **Physiological Society of New Zealand Posters** (**\***PSNZ Student Poster Presentation Prize candidate) | | | | | |
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| M34 | |  | | |  | | | |
| **8.00 pm –** | |  | | | **Fashionomics**  *Sponsored by Thermo Fisher Scientific*  **Trades Area, Level 4, Rydges Hotel**  **(with drinks)** | | | |