



AUSTRALASIAN CHRONOBIOLOGY SOCIETY

14th Annual Scientific Meeting – ‘Island Time’
October 23rd – 24th 2017
Waiheke Island, New Zealand



MEDICAL AND HEALTH SCIENCES



COLLEGE
OF HEALTH
TE KURA HAUORA TANGATA



SLEEP~WAKE *research centre*
MOE TIKA~MOE PAI



ALERTNESS
SAFETY AND
PRODUCTIVITY



ACTIMETRICS



“...Science in the service of humanity...”

Monday 23rd October

- 3:00 pm** Registration
- 4:00 pm** Keynote address from Professor Russell Foster –
'*Light signalling pathways to the molecular clockwork*'
- 4:45 pm** Honours talks
Katya Kovac - Groggy, dazed and confused: the impact of anticipating an important task when on-call on sleep inertia
Victoria King - Effect of chronic inflammation on circadian rhythms in the preterm fetus
Angus Burns - Circadian phase influences dissociable sub-processes of perceptual decision making
- 5:00 pm** Welcome drinks

Tuesday 24th October

- | Time | Speakers & titles |
|-----------------|---|
| 9.00am | Keynote address from Professor Steve Kay - ' <i>High throughput biology approaches to developing circadian therapeutics</i> ' Shantha Rajaratnam - Circadian timing and health Oliver Rawashdeh - A method to analyse the rhythmicity and localization of the hippocampal phosphoproteome Philippa Gander - Measuring circadian disruption across multiple trans-meridian flights Sean Cain - Is boosting light input to the clock an antidepressant therapy? |
| 11:00 am | Morning tea |
| 11:20 am | Raewyn Poulsen - Altered NMDA receptor expression in osteoarthritis causes changes to the chondrocyte-intrinsic circadian clock and induces disease-associated changes in chondrocyte phenotype Martin Sayers Knapp - What time for single daily administration of medication? The role of n=1 studies, Bayesian statistics and Kalman Filtering. James Cheeseman – A brief introduction to chronobiology and anaesthesia at the University of Auckland Grace Vincent - Is physical activity a countermeasure for sleep restriction? Michele Lastella - Morningness-Eveningness Questionnaire in a nutshell |
| 12:50 pm | Lunch |
| 1:35 pm | Invited speaker Shin Yamazaki - 'Extra-SCN circadian pacemakers in mammals' Geoffrey Thompson - Mutagenic dissection of flowering time loci in <i>medicago truncatula</i> Charlotte Gupta - Investigating the impact of 'meal inertia' on attention during a simulated nightshift Michelle Coleman - Circadian timing in unmedicated major depressive disorder: The association with mood Madeline Sprajcer - Does worry about missing the alarm during an overnight on-call period negatively affect sleep and cognitive performance in a laboratory environment? William McMahon - Sleep deprived cognitive performance during the wake maintenance zone depends on cognitive domain Lauren Watson - Increased variability of circadian phase in people with delayed sleep wake phase disorder compared to healthy controls Julia Stone - Machine learning approach to predict circadian phase using light and skin temperature in normal living conditions Elise McGlashan - Circadian sensitivity to light in unipolar depression: A pilot study |
| 3:35 pm | Afternoon tea |
| 3:55 pm | Lucia Du - Shedding light on immunity: The light-dependent response of innate immune cells during bacterial infection Jia Zhao - Peripheral but not central clock components decline with age in <i>Drosophila melanogaster</i> Dongni Li - How general anaesthesia affects the circadian clock in <i>Drosophila</i> Alma Orts-Sebastian - A phase response curve for the general anaesthetic isoflurane in mice Nathan Skinner - Impact of circadian disruption on central leptin and insulin sensitivity Alisa Boucsein - Daily rhythms of leptin action Leilah Grant - Inter-individual differences in the circadian modulation of the human plasma polar metabolome Nicola Ludin - Effects of general anaesthesia on PER2::LUC rhythms in the SCN and on human circadian markers following surgery |
| 5:00 pm | End of talks |
| 7:00 pm | Arrival at Goldies Estate for Massey University sponsored conference dinner |
| 7:20 pm | Student award presentation |
| 7:30 pm | Dinner start |