QRW Programme

NZ Immunology

Sunday 26 August – Monday 27 August, 2018

Rydges Hotel, Queenstown, New Zealand

Sunday 26 August

Time	Details	Location
	Immuno-Oncology I **Chaired by Rod Dunbar (Auckland).**	
9.00am – 9.15am	**Introduction** : **Rod Dunbar** University of Auckland	
9.15am – 10.00am	**Cath Bollard (I1)** *sponsored by Mediray* Children's National Health System, MD, USA *T cell therapies for hematologic malignancies: beyond CARs*	
10.00am - 10.30am	**Morning Tea**	
	Immuno-Oncology II **Chaired by Ian Hermans (Wellington).**	
10.30am - 10.40am	**Hilary Sheppard (I2)** University of Auckland *Functional outcomes of fine tuning the expression of PD-L1 and PD-1 proteins to the melanoma immune response*	
10.40am – 10.50am	**Julia Leman (I3) *B** University of Otago *Characterising dysfunctional T cells in colorectal cancer*	
10.50am - 11.00am	**Daniel Verdon (I4) *H** University of Auckland *Detection and quantification of Programmed Cell Death Protein-1 (PD-1) receptor occupancy by single-dose nivolumab in chronic hepatitis B patient*	
11.00am – 11.45am	**Peng Li (I5)** Guangzhou Institutes of Biomedicine and Health, Guangzhou, China *A combination of chimeric switch-receptor T cells targeting both PD-1 and CTLA-4 suppresses tumor growth*	
	Immuno-Oncology III **Chaired by Margaret Currie (Christchurch).**	
11.45am - 11.55am	**Nick Shields (I6) *B** University of Otago *Tumour cell-derived proteases contribute to antigen processing and enhance cross-presentation*	
11.55am – 12.05pm	**Milda Naciute (I7) *B** University of Otago *Immune response to oral therapeutic vaccination against colorectal cancer*	
12.05pm – 12.15pm	**Jody Hazlett (I8) *M** University of Otago	

	Investigation of combination treatment of an aromatase inhibitor and anti-inflammatory treatment in a model of oestrogen receptor positive breast cancer	
12.15pm – 12.20 pm	**Abel Ang (I9)** University of Otago (Christchurch) *Effect of ascorbate on tumour associated macrophage phenotype ex vivo*	
12.20pm – 12.25pm	**Janet Rhodes (I10)** University of Otago *Refining multiplex immunohistochemistry to quantify in situ immune infiltrate: improving survival of colorectal cancer patients*	
12.30pm – 2.00pm	**Lunch**	
<u>Inflammation</u> Chaired by Paul Hessian (Dunedin).		
2.00pm – 2.30pm	**Kathryn Friend (I11)** Biolegend *TotalSeq™ simultaneous proteomics and transcriptomics - the future of single cell analysis*	
2.30pm – 2.40pm	**Silke Neumann (I12) *H** University of Otago *Investigating post-stroke immune responses in lean and obese mice*	
2.40pm – 2.50pm	**Hamish Angus (I13) *B** University of Otago *Novel investigation of Crohn's disease T cell phenotypes and functionality in an in vitro human colonoid model*	
2.50pm – 3.00pm	**Josh Lange (I14) *B** Malaghan Institute of Medical Research *Novel agonists to explore the function of mucosal associated invariant T (MAIT) cells as cellular adjuvants*	
3.00pm – 3.10pm	**Natalie Lorenz (I15) *H** University of Auckland *Immune priming: Is it a major driver for rheumatic fever?*	
3.10pm – 3.15pm	**Simon Shirley (I16)** AgResearch *Is the immune system of naïve mice affected by cow's milk?*	
3.15pm – 3.20pm	**Gemma Laws (I17)** University of Otago *The effect of the probiotic Streptococcus salivarius (BLIS) K12 on human systemic immune responses*	
3.20pm – 3.25pm	**Aarthi Rajesh (I18)** University of Otago *Depletion of Langerhans cell promote accelerated wound closure*	
3.30pm	**Afternoon Tea**	
<u>Molecular Immunology</u> Chaired by Mike Berridge (Wellington).		
4.00pm – 4.10pm	**Reuben McGregor (I19) *H**	

	University of Auckland *Immunoregulatory effects of vitamin D and its mechanism of action in CD4+ T cells, epigenetic clues*	
4.10pm – 4.20pm	**Alicia Didsbury (I20) *B** University of Auckland *CD28 co-stimulation delivered in trans can effectively initiate T cell activation*	
4.20pm – 4.25pm	**Mei Lin Tay (I21)** University of Auckland *Identifying autoantibody targets as new biomarkers for acute rheumatic fever using high content protein arrays*	
4.25pm – 4.30pm	**Janlin Chan (I22)** University of Auckland *Evaluation of a novel multi-Staphylococcal Superantigen like (SSL) fusion vaccine for Staphylococcus aureus*	
4.30pm – 4.35pm	**Kar Yan Soh (I23)** University of Auckland *Functional analysis of streptococcus virulence factors using a zebrafish infection model*	
4.35pm – 5.15pm	**Watson Oration** **Professor J Frank Griffin** **University of Otago** *sponsored by Mediray*	
6.30pm – 10.30pm	**Conference Dinner**	**Public Kitchen and Bar**

Monday 27 August		
Time	**Details**	**Location**
AGM **Ries Langley**		
8.00am – 9.00am	Annual General Meeting (NZASI)	
New Technologies in Immunology **Chaired by Roslyn Kemp (Dunedin).**		
9.00am – 9.45am	**Yury Goltsev (I24)** *sponsored by Maurice Wilkins Centre* Stanford University, CA, USA *Dissection of cellular niches by multi-dimensional tissue imaging*	
Vaccines **Chaired by Sarah Hook (Dunedin).**		
9.45am – 9.55am	**Brin Ryder (I25) *B** University of Otago *BCG vaccination induces ILC expansion and alters phagocyte dynamics early after mycobacterial challenge*	
9.55am – 10.05am	**Sam Blanchett (I26) *B** University of Auckland *PilVax: a novel peptide carrier for the development of vaccines against tuberculosis*	

10.05am-10.15am	**Jacelyn Loh (I27) *H** University of Auckland *Improving mucosal immune responses generated by TeeVax, a T-antigen-based vaccine for the prevention of rheumatic fever*	
10.15am – 10.25am	**Ashley Gaines (I28) *M** University of Auckland *Modulation of CX3CR1 Expression on T cells in vitro by common gamma-chain cytokine exposure*	
10.25am – 10.30am	**Catherine Tsai (I29)** University of Auckland *PilVax – a novel peptide delivery platform for the development of mucosal vaccines*	
10.30am – 11.00am	**Morning Tea**	
<u>Cell Signalling</u> Chaired by James Ussher (Dunedin)		
11.00am-11.30am	**Mike Berridge (I30)** Malaghan Institute of Medical Research *The presence of mitochondrial DNA controls nuclear immune response gene expression in a breast tumour model*	
11.30am – 11.40am	**Olivia Burn (I31) *B** Malaghan Institute of Medical Research *Altering the Mevalonate pathway to enhance CD8+ T cell responses*	
11.40am – 11.50am	**Rajesh Lamicchane (I32) *B** University of Otago *Differential regulation of MR1- and cytokine stimulated MAIT cells*	
11.50am – 12.00pm	**Deepa Patel (I33) *H** Malaghan Institute of Medical Research *To float like a butterfly, sting like a bee: A kinase-independent role of Protein kinase R in Anthrax lethal-toxin treated macrophages*	
12.10pm – 1.30pm	**Lunch**	
<u>Tissue Specific Immune Responses</u> Chaired by Hilary Sheppard (Auckland)		
1.30pm – 1.40pm	**Alana Whitcombe (I34) *B** University of Auckland *Assessing the utility of SpnA, a novel Group A Streptococcus antigen, to improve clinical streptococcal serology*	
1.40pm – 1.50pm	**Marion Schneider (I35) *H** University of Otago *Neutrophils suppress mucosal associated invariant T cells*	
1.50pm – 2.00pm	**Evert Loef (I36) *H** University of Auckland *Human monocyte-derived dendritic cells respond chemokinetically to full-length CCL21, in contrast to the chemotactic responses to CCL19 and CCL21 that is C-terminally truncated by plasmin, as shown by live-cell microscopy*	

2.00pm – 2.10pm	**Ginny Niemi (I37) *M** University of Otago *Immunologic considerations of a surgical mouse model of colorectal cancer*	
2.10pm – 2.20pm	**Elyce Du Mez (I38) *B** University of Auckland *Individual and cocktails of TLR ligands influence cytokine secretion by human skin explants*	
2.20pm – 2.25pm	**Douglas Gaskarth (I39)** University of Otago *Characterising T cell responses in an orthotopic intracaecal mouse model of colorectal cancer*	
Infectious Disease **Chaired by Fiona Radcliff (Auckland)**		
2.30pm – 3.15pm	**Alex Corbett (I40)** *sponsored by Abacus DX* University of Melbourne and Peter Doherty Institute for Infection and Immunity, Melbourne, Australia *Potential for vaccination strategies targeting MAIT cells demonstrated by protection against lethal Legionella infection in mice*	
3.30pm – 4.00pm	**Afternoon Tea**	
Closing **Chaired by Ries Langley (Auckland).**		
4.00pm – 4.30pm	**Awards Presentation**	
4.30pm – 4.45pm	**Closing Remarks**	

Queenstown Research Week Opening Night Welcome and Plenary Session		
6.00pm	**Welcome and Conference Opening**: **Peter Shepherd** University of Auckland	
6.00pm – 7.00pm	**Plenary Introduction**: **Peter Mace** *sponsored by Lab Supply Ltd* University of Otago	
	Professor Elizabeth Blackburn 2009 Nobel Prize in Physiology or Medicine for discovery of how chromosomes are protected by telomeres and the enzyme telomerase University of California, San Francisco Sponsor: Health Sciences, University of Otago	
7.00pm	**Opening Night Mixer** *sponsored by Abacus DX*	