

PROGRAM

Sunday 16th November 2014

Welcome

3:30 pm - 3:40 pm

Meeting Room 109

3:30 PM Welcome to country

3:37 PM Welcome – **Dr Tina Bianco-Miotto, AHMRC Convenor**

Opening Symposium – A Transdisciplinary Future for Research

3:40pm - 5:00pm

Meeting Room 109

Chair Dr Sarah Meachem

3:40 PM **Dr Sarah Meachem** opening remarks

3:45 PM **Prof Tanya Monro**

4:00 PM **A/Prof Manu Platt**

4:15 PM **Prof Josef Penninger**

4:30 PM **Panel Discussion**

4:55 PM **Dr Sarah Meachem** – Summary and closing remarks

Welcome Drinks

5:00pm - 6:30pm

Level 1 Foyer 2

Monday 17th November 2014

Translating Omic Research into Health Gains

8:30am - 10:30am

Chairs: Roger Yazbek & Tina Bianco-Miotto

Meeting Room 109

Session Sponsored by:



Department of
health



- 8:30 AM **Josef Penninger (Firkin Orator)**
Haploid Stem Cells *abs# 1*
- 9:00 AM **David Bowtell**
The genomic landscape of primary and acquired resistant high grade serous ovarian cancer. *abs# 2*
- 9:30 AM **Peter Stanton**
The use of 'omics' to understand and manage male infertility. *abs# 3*
- 10:00 AM **Saskia Decuypere**
Innovating diagnosis of febrile illness in remote settings: from disease metabolomics to rapid diagnostics *abs# 4*

ASMR Professional Development Session: *The Strategic Researcher*

8:00am - 12:00pm

Facilitator: Maria Gardiner

Meeting Room 110

Photoimmunology

8:30am - 10:30am

Chair: Scott Byrne

Meeting Room 107

- 8:30 AM **Prue Hart**
Bone marrow and longevity of UVR-induced systemic immunosuppression *abs# 5*
- 9:00 AM **Sian Geldenhuys**
Can ultraviolet irradiation of skin delay the onset of multiple sclerosis? *abs# 6*
- 9:15 AM **Felix Marsh-Wakefield**
IL-4 stimulated mast cells activate immunoregulatory B cells in a contact independent manner involving microparticles *abs# 7*
- 9:30 AM **Scott Byrne**
How much sunlight is enough? *abs# 8*
- 9:45 AM **Andrew Farrell**
Brm protects keratinocytes from UV-induced hyperplasia *abs# 9*
- 10:00 AM **Peter Wolf**
Ultraviolet radiation, immune suppression, and skin cancer *abs# 10*

Biomarkers and Therapeutics

8:30am - 10:30am

Meeting Room 111-112

Chair: Wayne Phillips & Alex Boussioutas

- 8:30 AM **Kenneth Wang**
Not available at time of printing *abs# 11*
- 9:30 AM **Jayesh Desai**
Developing targeting agents in CRC: targeting a dynamic target *abs# 12*
- 10:00 AM **Ben Tran**
Molecular Tumour Boards – Bringing scientists and clinicians together to help patients *abs# 13*

Metabolic Consequences of Sleep Loss and Sleep Disruption

8:30am - 10:30am

Meeting Room 108

Chair: Danny Eckert

- 8:30 AM **Jonathan Shaw**
Epidemiology of diabetes and potential novel therapies *abs# 14*
- 9:00 AM **Matthew Naughton**
Interaction between obesity, obstructive sleep apnoea and type 2 diabetes mellitus with bariatric surgery and CPAP: the results of two randomised controlled trials. *abs# 15*
- 9:30 AM **Nigel McArdle**
OSA, metabolic function and vascular disease *abs# 16*
- 10:00 AM **Joseph Proietto**
Why is it so hard to stem the obesity epidemic? *abs# 17*

Morning Tea

10:30am -11:00am

Level 1 Foyer 2

ASMR Research Fund Meeting

10:30am -10:15am

Conference Organisers Room 101

Monday Plenary

11:00am - 12:00pm

Meeting Room 109

Chair: Damian Purcell

Charles Bangham

HTLV-1: lymphocyte dynamics and the host immune response

abs# 18

Lunch and Poster Viewing

12:00pm - 1:30pm

Level 1 Foyer 2

Professional Development - Transdisciplinary Incubator

12:00pm - 1:30pm

Meeting Room 101-102

Facilitator: Stella Clark

Novel Agents and Therapies (Free Communications ASMR)

1:30pm - 3:00pm

Meeting Room 109

Chair: Mark Hulett

- 1:30 PM **Rebecca Lang**
Compounds Australia - Australia's Chemistry At Your Fingertips
- 1:45 PM **Hongjuan Liu**
Human tropoelastin enhance the biocompatibility of natural and synthetic biopolymer in an IL-1 β luciferase transgenic mouse model *abs# 20*
- 2:00 PM **Tom Karagiannis**
Evaluation of the mechanisms of action of a potent DNA binding UV_A photosensitiser using mRNA-sequencing and infrared synchrotron microspectroscopy *abs# 21*
- 2:15 PM **Myriam Abboud**
Effect of vitamin D status on weight loss and biochemical changes in a clinic setting *abs# 22*
- 2:30 PM **Kiera Flynn**
Evaluation of DHA into artificial cell membranes and its effect on their physicochemical properties *abs# 23*
- 2:45 PM **Nitish Agrawal**
Development of novel class of M1 ERAP aminopeptidase inhibitors for treating autoimmune diseases *abs# 24*

Cancer (Free Communications ASMR)

1:30pm - 3:00pm

Meeting Room 110

Chair: Phoebe Phillips

- 1:30 PM **Ysabella Van Sebille**
Is crofelemer an effective intervention for dacomitinib-induced gastrointestinal toxicity? *abs# 25*
- 1:45 PM **Shir Lin Koh**
Regulation of Self-Renewal and Tumour Initiation by Claudin-2 in Colon Cancer Stem Cells *abs# 26*
- 2:00 PM **Tina Bianco-Miotto**
A high fat diet early in life and prostate cancer risk *abs# 27*
- 2:15 PM **George Sharbeen**
 β III-tubulin is a novel therapeutic target for the treatment of pancreatic cancer *abs# 28*
- 2:30 PM **Sewa Rijal**
A novel chemoresistance function for the lipid phosphatase INPP4B in acute myeloid leukaemia *abs# 29*
- 2:45 PM **Theo Mantamadiotis**
An oncogenic pi3k-creb signaling axis identified in brain cancer cell lines tested in a novel brain cancer mouse model *abs# 30*
- 3:00 PM **Brooke Pereira**
Engineering the 3D tumour microenvironment *in vitro* to study the role of cell-cell interactions in prostate cancer *abs# 31*

Photobiology

1:30pm - 3:00pm

Meeting Room 107

Chair: Gary Halliday

- 1:30 PM **Martin Feelisch**
Shining New Light on Solar UV Radiation – Hemodynamic and Metabolic Effects of NO Release from the Skin *abs# 32*
- 2:30 PM **Michael Fenech**
The association between personal sun exposure, serum vitamin D and DNA methylation in human lymphocytes in a population of healthy adults in South Australia *abs# 33*

Monday Free Communications 1 (ACCG/ProbeNet)

1:30pm - 3:30pm

Meeting Room 111-112

Chairs: Damian Hussey & Kevin Spring

1:30 PM **Oliver Fisher**

Tissue and plasma levels of MIC-1/GDF15 increase during the malignant transformation of Barrett's esophagus and high MIC-1 plasma levels may be associated with worse prognosis for patients with esophageal adenocarcinoma. *abs# 34*

1:45 PM **Bradley Kendall**

Gastro-oesophageal reflux modifies the risk of Barrett's oesophagus associated with the metabolic effects of obesity. *abs# 35*

2:00 PM **Michelle Hill**

Towards a blood test for oesophageal adenocarcinoma *abs# 36*

2:15 PM **Maija Kohonen-Corish**

Identification of a new pathway regulating beta-catenin in colon cancer cells. *abs# 37*

2:30 PM **Helen Abud**

Snai1 regulates cell lineage allocation and stem cell maintenance in the intestinal epithelium *abs# 38*

2:45 PM **John Mariadason**

Biomarkers of response to mTOR inhibitors in Biliary Tract Cancer *abs# 39*

Afternoon Tea

3:00pm - 3:30pm

Level 1 Foyer 2

Clinical Case Studies on Sleep and Mental Health – Expert Panel Discussion

1:30pm - 3:30pm

Meeting Room 108

Chairs: Melinda Jackson & Naomi Rogers

Panelists: **Harriet Hiscock, Kathy Reid, Naomi Rogers**

Transdisciplinary Approaches to Bioinformatics

3:30pm - 5:30pm

Meeting Room 109

Chair: Dan Johnstone

- 3:30 PM **Tom Conway**
Informatics for enabling enterprise-scale genomics *abs# 40*
- 4:00 PM **Miles Davenport**
The dynamics of HIV latency *abs# 41*
- 4:30 PM **Michael Inouye**
Integrative omics to understand and prevent human disease *abs# 42*
- 5:00 PM **Peter Colman**
Harnessing data to predict and prevent type 1 diabetes and the development of future complications *abs# 43*

Vitamin D

3:30pm - 5:30pm

Meeting Room 107

Chair: Rebecca Mason

- 3:30 PM **Katie Dixon**
PTEN: a novel target for vitamin D in melanoma *abs# 44*
- 4:00 PM **Graeme Zosky**
Shining a light on vitamin D and asthma *abs# 45*
- 4:30 PM **Christian Girgis**
Vitamin D in muscle *abs# 46*
- 5:00 PM **Paul Anderson**
Is vitamin D needed? A bone of contention *abs# 47*

Cancer Genomics

3:30pm - 5:30pm

Meeting Room 111-112

Chairs: Rob Ramsay & David Whiteman

- 3:30 PM **Tom Vaughan**
From genomics to diagnostics of esophageal adenocarcinoma *abs# 48*
- 4:30 PM **Andrew Barbour**
Genomic catastrophes in oesophageal adenocarcinoma *abs# 49*
- 5:00 PM **Dmitri Mouradov**
Colorectal cancer cell lines are representative models of the main molecular subtypes of primary cancer *abs# 50*

Sleep, Circadian Rhythms and Well-Being across the Lifespan

3:30pm - 5:30pm

Meeting Room 108

Chairs: Naomi Rogers & Melinda Jackson

3:30 PM **Greg Murray**

Nature's clocks and human mood: Biological rhythms and sleep in mood and its disorders *abs# 54*

4:00 PM **Harriet Hiscock**

What are the effects of poor sleep on behaviour and what can we do about it? *abs#53*

4:30 PM **Kathryn Reid**

Living and working against the clock: Effects on mental health and health behaviours *abs# 51*

5:00 PM **Naomi Rogers**

Sleep, mood and ageing *abs# 52*

Poster Session A

5:30pm - 6:30pm

Level 1 Foyer 2

ASMR Indigenous Public Health Forum

Health Start, Strong Family

6:45pm - 8:00pm

Meeting Room 111 -112

Chair: Munya Andrews

Speakers: **Joshua Creamer, Elizabeth Elliott, Lisa Jackson Pulver, Lorian Hayes**

Tuesday 18th November 2014

ASMR Student Breakfast

7:30am - 8:30am

Meeting Room 103

ASMR Professional Development Session: Cognitive Behavioural Coaching for High Performers

8:00am - 12:00pm

Meeting Room 110

Facilitator: Maria Gardiner

Trandisciplinary Research: Accelerating Discovery to Translation

8:30am - 10:30am

Meeting Room 109

Chair: Manu O. Platt

- 8:30 AM **Maria Kavallaris**
Nanotechnology: The next big thing in medicine *abs# 55*
- 9:00 AM **Anthony Burkitt**
The quest to restore vision for people with degenerative vision conditions with medical bionics: The Bionic Vision Australia prototype retinal implant study *abs# 56*
- 9:30 AM **David Anderson**
Accelerating discovery to translation – Diagnostics for global health
- 10:00 AM **Anna Ahimastos**
ACE inhibition for peripheral artery disease: From evidence to practice *abs# 58*

Comparative Biology and Immunology

8:30am - 10:30am

Meeting Room 107

Chair: Greg Woods

- 8:30 AM **Helen Goodridge**
Steady-state and emergency myelopoiesis *abs# 59*
- 9:30 AM **John Rodger**
Biomedical technologies for innovative wildlife management – Progress and hurdles *abs# 60*
- 10:00 AM **Michele Grimbaldston**
Molecular mechanisms underlying the negative regulation of mast cell function *abs# 61*

Genomics, Signalling and GI Cancer

8:30am - 10:30am

Meeting Room 111-112

Chairs: Joan Heath & Frederic Hollande

- 8:30 AM **Louis Vermeulen**
Stem cell dynamics in homeostasis and cancer of the intestine *abs# 62*
- 9:00 AM **Graham Radford-Smith**
Separating signal from noise in the Inflammatory Bowel Diseases *abs# 63*
- 9:30 AM **Marcel Dinger**
Decoding the genome: Dissecting the regulatory repertoire of the genome through high resolution transcriptomics *abs# 64*
- 10:00 AM **Huiling Xu**
Cohesin role in multiple aspects of intestinal tumorigenesis *abs# 65*

Mechanisms of Severe Pancreatitis

8:30am - 10:30am

Meeting Room 108

Chair: Phoebe Phillips & Ross Smith

- 8:30 AM **John Windsor**
Mesenteric lymph toxicity and organ dysfunction in severe acute pancreatitis *abs# 66*
- 9:30 AM **Minoti Apte**
The multifunctional pancreatic stellate cell *abs# 67*
- 10:30 AM **Max Petrov**
Severity of acute pancreatitis: A tale of two classifications *abs# 68*

Morning Tea

10:30am -11:00am

Level 1 Foyer 2
Sponsored by:



Tuesday Plenary

11:00am - 12:00pm

Meeting Room 109

Chair: Terrence Piva

Gabriele Bergers

Targeting the vascular niche: How tumors tackle angiogenic inhibitors *abs# 69*

Lunch and Poster Viewing

12:00pm - 1:30pm

Level 1 Foyer 2

ASMR AGM
12:00pm - 1:30pm

Meeting Room 108

MEPSA AGM
12:00pm - 1:30pm

Meeting Room 107

Mechanisms (Free Communications ASMR)

1:30pm - 3:00pm

Meeting Room 109

Chair: Maria Kavallaris

- 1:30 PM **Steven Polyak**
Biotin protein ligase: a novel anti-TB drug target *abs# 70*
- 1:45 PM **Yin Xiao**
Osteoimmunoregulation in β -tricalcium phosphate based bone substitutes *abs# 72*
- 2:00 PM **Sushama Telwatte**
Silent mutations in the HIV-1 subtype B reverse transcriptase selected during drug therapy restore viral fitness by reducing indel mutations *abs# 73*
- 2:15 PM **Noreen Eder**
Role of cohesin in ribosomal DNA stability *abs# 74*
- 2:30 PM **Alice Brandli**
Exercise based conditioning prevents photoreceptor degeneration: role of BDNF *abs# 75*
- 2:45 PM **Irina Kulina**
Neurological heterotopic ossification requires both spinal cord injury and macrophage-dependent soft tissue inflammation *abs# 71*
(cannot attend)

Early Life (Free Communications ASMR)

1:30pm - 3:00pm

Meeting Room 110

Chair: Sarah Meachem

- 1:30 PM **Pei Liu**
The novel long noncoding RNA IncUSMycN promotes MYCN tumourigenesis by up-regulating MYCN oncogene expression *abs# 76*
- 1:45 PM **Paul Dawson**
Neuroprotective benefit of magnesium sulphate therapy for preterm infants: Is it the magnesium or is it the sulphate? *abs# 77*
- 2:00 PM **Natalie Binder**
Male obesity is associated with changed spermatozoa *Cox4i1* mRNA level and altered seminal vesicle fluid composition in the mouse *abs# 78*
- 2:15 PM **Fiona Brownfoot**
Pravastatin: A novel therapeutic to treat preeclampsia *abs# 79*
- 2:30 PM **Bernard Atmadibrata**
The Novel Long Noncoding RNA linc00467 Promotes Neuroblastoma Cell Survival but is Down-Regulated by N-Myc *abs# 80*
- 2:45 PM **Paul Dawson**
Placental Slc13a4 sulphate transporter is linked to severe fetal abnormalities in mice. *abs# 81*

Tuesday Free Communications (MEPSA)

1:30pm - 3:00pm

Meeting Room 107

Chairs: Michele Grimbaldston & Katie Dixon

- 1:30 PM **Anthony Cook**
Defining conditions to direct human pluripotent stem cells towards the glaucoma-affected trabecular meshwork cell lineage *abs# 82*
- 1:45 PM **Esther Ashworth Briggs**
Imbalance between MMPs and TIMPs in aqueous humor from primary open angle glaucoma patients due to increased levels of TIMP1, TIMP2 and TIMP4 *abs# 83*
- 2:00 PM **Bianca McCarthy**
The major CYP11A1 metabolite, 20-hydroxyvitamin D, is an alternative form of active vitamin D for photoprotection *abs# 84*
- 2:15 PM **Xian Yang Chan**
Growth factor signalling in melanoma cells *abs# 85*
- 2:30 PM **Amanda Patchett**
Toll-like receptors as adjuvant targets in devil facial tumour disease *abs# 86*
- 2:45 PM **Katrina Reeve**
Is darkfield microscopic analysis of fresh capillary blood a viable alternative option to venous haematology for health screening? *abs# 87*

Tuesday Free Communications 2 (ACCG/ProbeNet)

1:30pm - 3:00pm

Meeting Room 111-112

Chairs: Nicholas Clemons & Luke Hesson

- 1:30 PM **Karen Chiam**
Paired serum and plasma exosome preparations differ in their exosomal and non-exosomal microRNA profiles *abs# 88*
- 1:45 PM **Michael Buchert**
A new preclinical mouse model to study Barrett's-like metaplasia and beyond *abs# 89*
- 2:00 PM **Matthew Read**
A novel xenograft model for investigating Barrett's carcinogenesis. *abs# 90*
- 2:15 PM **Joan Heath**
Not so minor after all; essential roles for minor class splicing in development, homeostasis and cancer *abs# 91*
- 2:30 PM **Joanne Bowen**
TLR4 deletion prevents irinotecan-induced gut dysfunction in mice *abs# 92*
- 2:45 PM **Luke Hesson**
Genome-wide profiling reveals frequent epigenetic silencing of axonal guidance genes in laterally spreading tumours *abs# 93*

Tuesday Free Communications (APC)

1:30pm - 3:00pm

Meeting Room 108

Chairs: Ilse Rooman & Minoti Apte

- 1:30 PM **Dannel Yeo**
A p21-Activated Kinase 1 Inhibitor, FRAX-597, Combined with gemcitabine synergistically inhibits the growth and metastasis of pancreatic ductal adenocarcinoma *abs# 94*
- 1:45 PM **Srinivasa Pothula**
Hepatocyte growth factor (HGF) inhibition: a novel therapeutic approach in pancreatic cancer *abs# 95*
- 2:00 PM **Jerikho Bulanadi**
Prodrug incorporated within recombinant high density lipoprotein nanoparticles as a modality of drug delivery *abs# 96*
- 2:15 PM **Phoebe Phillips**
Design and synthesis of novel PEGylated star nanoparticles as delivery agents for short-interfering RNA (siRNA) to pancreatic cancer cells. *abs# 97*
- 2:30 PM **Ross Smith**
Australasian Pancreatic Club guidelines for the use of pancreatic enzyme replacement therapy *abs# 98*

Afternoon Tea

3:00pm - 3:30pm

Level 1 Foyer 2

Epidemiology of Chronic Diseases

3:30pm - 5:30pm

Meeting Room 109

Chair: Brigid Lynch

- 3:30 PM **Jo Williams**
National Health Priority Areas: Can we make a difference? *abs# 99*
- 3:45 PM **Anthony LaMontagne**
Epidemiology of chronic disease: Work & mental Health *abs# 100*
- 4:00 PM **Rosalie Viney**
Not available at time of printing *abs# 101*
- 4:30 PM **Robert Adams**
The evolving epidemiology of chronic conditions *abs# 102*
- 5:00 PM **Margaret Hellard**
Hepatitis C is now a curable chronic disease – is elimination possible? *abs# 103*

NARF 2014 Symposium

3:30pm - 5:30pm

Meeting Room 110

Chairs: Andrew Lawrence and Robert Medcalf

- 3:30 PM **Michael Hickey**
Imaging leukocyte recruitment to the inflamed glomerulus – immune cells defying the rules
- 4:00 PM **John Silke**
Necroptosis: a new clinically relevant form of programmed cell death
- 4:30 PM **NARF Postdoctoral Award Winner**
Xiawei Wang
Direct ultrasound imaging of blood clots

Nanoparticles and Health

3:30pm - 5:30pm

Meeting Room 107

Chair: Terrence Piva

- 3:30 PM **Molly Stevens**
Exploring and engineering the cell-material interface *abs# 104*
- 4:00 PM **Bryce Feltis**
Cellular photo-activity comparison of rutile and Anatase Titania Nanoparticles *abs# 105*
- 4:30 PM **Tarl Prow**
Topical nanoparticle delivery *abs# 106*
- 5:00 PM **Rhian Cope**
Oral two generation reproductive and prenatal developmental toxicity studies of tetrabromobisphenol a (tbbpa) in cd sprague-dawley rats. *abs# 107*

Colorectal Cancer

3:30pm - 5:30pm

Meeting Room 111-112

Chairs: Helen Abud & Jordane Malaterre

- 3:30 PM **Robert Cormier**
The role of *KCNQ1* and *CFTR* in colorectal cancer *abs# 108*
- 4:30 PM **Barry Iacopetta**
Translational research in colorectal cancer: what clinical impact? *abs# 109*
- 5:00 PM **Andy Giraud**
IL-11/STAT3 signalling initiates and drives progression in gastric cancer development *abs# 110*

Defining Targets for Treatment: From Basic through to Translational Research

3:30pm - 5:30pm

Meeting Room 108

Chairs: Francisco Real & Chris Scarlett

- 3:30 PM **Diane Simeone**
Clinical Implications of Tumor Heterogeneity in Pancreatic Cancer *abs# 111*
- 4:00 PM **Marina Pajic**
Translating molecular signatures into novel personalised medicine strategies for patients with pancreatic cancer *abs# 112*
- 4:30 PM **Tracy Putoczki**
Understanding the role of cytokines in gastrointestinal cancers *abs# 113*
- 4:30 PM **Ross Smith**
Target pancreatic cancer with HDL nanoparticles embedded with chemotherapeutic prodrug and fluorescent lipid imaging agents *abs# 114*

NARF AGM

5:30pm - 6:30pm

Meeting Room 110

Poster Session B

5:30pm - 6:30pm

Level 1 Foyer 2

Conference Dinner

6:30pm for 7:00pm

Dinner speech by Josef Penninger

Meeting Room 106

Wednesday 19th November 2014

Transdisciplinary Innovations in Chronic Diseases

8:30am - 10:30am

Meeting Room 109

Chair: David de Kretser

- 8:30 AM **Meg Morris**
Inter professional evidenced based management of movement disorders in Parkinsons disease *abs# 115*
- 9:00 AM **Norman Ratcliffe**
The New Diagnostic: Volatiles for Disease Diagnoses? *abs# 116*
- 9:30 AM **Caroline McMillen (Edwards Orator)**
The early origins of obesity: The embryo, environment and epigenetics *abs# 117*
- 10:00 AM **Felicity Baker**
Transforming lives through musical engagement: Music therapy research innovations in transdisciplinary healthcare *abs# 118*

Oxidative Stress and Disease

8:30am - 10:30am

Meeting Room 107

Chair: Vivienne Reeve

- 8:30 AM **Giuseppe Valacchi**
Skin as a shield against the outdoor stressors: Should pollution concern us? *abs# 119*
- 9:30 AM **Roland Stocker**
Vascular protection by the oxidative stress protein heme oxygenase-1 *abs# 120*
- 10:00 AM **Terrence Piva**
The effect of antioxidants on UV-irradiated melanocyte-derived cells *abs# 121*
- 10:15 AM **Artur Shariev**
Novel targets for vitamin D in the inhibition of melanoma cell growth and metastasis *abs# 122*

Mechanism of Pancreatic Development and Disease

8:30am - 10:30am

Meeting Room 108

Chairs: Diane Simeone & Marina Pajic

- 8:30 AM **Francisco Real**
Transcriptional programmes link pancreatic cell differentiation and inflammation *abs# 123*
- 9:00 AM **Ilse Rooman**
Mechanisms of pancreatic development and disease *abs# 124*
- 9:30 AM **Ed Stanley**
Generation and analysis of in vitro derived Insulin expressing cells *abs# 125*
- 10:00 AM **Erica Sloan**
Neural regulation of pancreatic cancer progression *abs# 126*

New Models and Methods for Investigating Heart Disease

8:30am - 10:30am

Meeting Room 111

Chair: Inken Martin & Enzo Porello

Session Sponsored by:



- 8:30 AM **Gillian Blue**
Next generation sequencing in congenital heart disease: from gene discovery to clinical application *abs# 127*
- 9:00 AM **Alexis Bosman**
Induced pluripotent stem cells as model to investigate cardiac disease *abs# 128*
- 9:30 AM **Inken Martin**
Zebrafish models of cardiovascular disease *abs# 129*
- 10:00 AM **Melissa Byrne**
Novel recirculating system for cardiac gene delivery *abs# 130*

Cardio-Metabolic Complications of Chronic Viral Infections

8:30am - 10:30am

Meeting Room 112

Chair: Anthony Jaworowski & Allison Abendroth

- 8:30 AM **Paddy Mallon**
Getting to the heart of HIV and cardiovascular disease *abs# 131*
- 9:30 AM **Suzanne Crowe**
The role of monocytes in the pathogenesis of serious non-AIDS morbidities *abs# 132*
- 10:00 AM **Lloyd Einsiedel**
The clinical manifestations of infection with the Human T-lymphotropic virus type 1 in an Indigenous Australian population *abs# 133*

Morning Tea

10:30am -11:00am

Level 1 Foyer 2

Wednesday Plenary

11:00am - 12:00pm

Chair: Wayne Phillips

Meeting Room 109-110
Session Sponsored by:



11:00 AM **Molly Stevens**

Designing materials for regenerative medicine and ultrasensitive biosensing

abs# 134

Lunch and Poster Viewing

12:00pm - 1:30pm

Level 1 Foyer 2

APC AGM

12:00pm - 1:30pm

Meeting Room 108

Workshop: Enabling the Flow of Research Knowledge into Clinical Practice

12:00pm - 2:00pm

Facilitator: Mark Robertson

Meeting Room 110

Clinical Implications (Free Communications ASMR)

1:30pm - 3:00pm

Meeting Room 109

Chair: Steven Polyak & Brigid Lynch

- 1:30 PM **Margaret Heffernan, O.A.M.**
Trans-disciplinary health approaches to the uptake of HPV immunization in culturally and linguistically diverse communities *abs# 135*
- 1:45 PM **Dan Johnstone**
A light-based neuroprotective therapy for Parkinson's disease – using transdisciplinary research to facilitate translation *abs# 136*
- 2:00 PM **Tristan Harding**
Management issues in female genital cosmetic surgery: an interdisciplinary approach *abs# 137*
- 2:15 PM **Zhen Zheng**
Electroacupuncture and cognitive behavioural therapy for tension type headache: a randomised controlled trial *abs# 138*
- 2:30 PM **Azadeh Sahebian**
Prevalence of actinic keratosis and the risk factors for skin cancer in lung transplant recipients in Queensland, Australia *abs# 139*
- 2:45 PM **Mani Grover**
Identification of novel therapeutics for complex diseases from genome-wide association data *abs# 140*

Cancer and Epigenetics

1:30pm - 3:00pm

Meeting Room 107

Chair: Eliza Snow

- 1:30 PM **Sean Grimmond**
Mining drivers, mutagenic processes and clinical insights from cancer genome sequencing *abs# 141*
- 2:30 PM **Susan Clark**
Epigenetic Reprogramming in Cancer *abs# 142*

Wednesday Free Communications (APC)

1:30pm - 3:00pm

Meeting Room 108

Chairs: John Chen & Chris Scarlett

- 1:30 PM **Esteban Gurzov**
Inactivation of protein tyrosine phosphatases enhances interferon signaling in pancreatic islets. *abs# 143*
- 1:45 PM **Claire Vennin**
Manipulating the extra-cellular matrix to improve drug targeting and efficacy in pancreatic cancer using intravital biosensor and SHG imaging *abs# 144*
- 2:00 PM **Andreia Pinho**
Loss of Slit-Robo signalling in the pancreas increases the severity of pancreatitis *abs# 145*
- 2:15 PM **Rachel Neale**
Association between *Helicobacter pylori* and Pancreatic Cancer Risk *abs# 146*
- 2:30 PM **Adnan Nagrial**
The prognostic role of KRAS mutations in pancreatic adenocarcinoma : A pooled analysis of 4392 patients *abs# 147*

Wednesday Free Communications (CSANZ/ISHR)

1:30pm - 3:00pm

Meeting Room 111

Chairs: Chrisan Samuel & Chengxue Qin

- 1:30 PM **Bridie Feehan**
Remote limb ischemic preconditioning: contribution of vagal innervation to protection against myocardial ischaemia/reperfusion injury. *abs# 148*
- 1:45 PM **Yow Keat Tham**
The ganglioside GM3 increases in the atria of mice with atrial fibrillation and BGP-15 treatment attenuates its levels *abs# 149*
- 2:00 PM **Melissa Reichelt**
Increased cardiomyocyte expression of the scaffolding protein Caveolin 3 limits age-related ischaemic intolerance *abs# 150*
- 2:15 PM **James Bell**
Aromatase deficient female mouse hearts exhibit enhanced cardiomyocyte stress resilience associated with augmented CaMKII δ activation *abs# 151*
- 2:30 PM **Nikita Gupta**
Antenatal betamethasone differentially alters lung and ventricular expression of Wnt signaling pathways in preterm ovine fetus *abs# 152*
- 2:45 PM **Hitesh Peshavariya**
Inhibitor of histone deacetylation suppresses NADPH oxidase 4-derived redox signalling and angiogenesis via inhibition of P300 histone acetyltransferase *abs# 153*

Wednesday Free Communications ASHM/ASM

1:30pm - 3:00pm

Meeting Room 112

Chairs: Clovis Palmer & Damian Purcell

- 1:30 PM **Adriana Pliego-Zamora**
In vitro and *in vivo* activity of *Melaleuca alternifolia* Concentrate
against West Nile Virus infection *abs# 154*
- 1:45 PM **Xi Zen Yap**
The dose dictates the poison: dendritic cell suppression by *P. falciparum* *abs# 155*
- 2:00 PM **Berhan Ayele Haile**
Development and evaluation of a simple, filter paper-based method
of plasma separation and collection for viral load testing *abs# 156*
- 2:15 PM **James Beeson**
Defining major targets of protective human antibodies against
malaria to advance vaccine development. *abs# 157*
- 2:30 PM **Sarah Russell**
Elucidation of T cell fate control by time lapse imaging and
quantitative microscopy. *abs# 158*
- 2:45 PM **Anthony Jaworowski**
A novel natural killer cell population lacking FcR γ is expanded in
chronically–infected HIV patients *abs# 159*

Afternoon Tea/Award Announcements

3:00pm - 3:30pm

Level 1 Foyer 2
Awards sponsored by:



Indigenous Health and Chronic Disease

3:30pm - 5:30pm

Meeting Room 109

Chair: Paul Dawson

- 3:30 PM **Louise Maple-Brown**
The Northern Territory diabetes in pregnancy partnership *abs# 160*
- 4:00 PM **Wendy Hoy**
Health and chronic disease in remote-living Aboriginal people in the
context of the epidemiologic transition. *abs# 161*
- 4:30 PM **Scott McCoombe**
Not available at time of print *abs# 162*
- 5:00 PM **Hiranthi Perera**
Cancer Council Victoria – Cancer prevention and support programs
for Victoria’s aboriginal communities

Transdisciplinary Future for Chronic Diseases

3:30pm - 5:30pm

Meeting Room 110

Chair: Josef Penninger

- 3:30 PM **Manu O. Platt**
Personalized proteolytic profiles to predict chronic disease progression *abs# 163*
- 4:00 PM **Allison Cowin**
Crossing boundaries to improve chronic disease outcomes *abs# 164*
- 4:30 PM **Peter Choong**
The grand challenge – managing end-stage osteoarthritis in the future *abs# 165*
- 5:00 PM **Takemi Sugiyama**
Environment, automatic behaviour and chronic disease prevention *abs# 166*

Skin Cancer

3:30pm - 5:30pm

Meeting Room 107

Chair: Nicholas Saunders

- 3:30 PM **Kiarash Khosrotehrani**
Epidermal clonal proliferative response in homeostasis and upon UVB irradiation is bimodal and is affected by the hair follicle cycle. *abs# 167*
- 4:00 PM **Rod Sinclair**
Risk of primary malignant cancer after non-melanoma skin cancer in England: a national record linkage study *abs# 168*
- 4:30 PM **Nicholas Saunders**
Identification of a novel E2F:Sphingosine kinase 1 axis that is disrupted in squamous cell carcinoma: implications for cancer drug sensitivity *abs# 169*
- 5:00 PM **Andrew Chen**
Nicotinamide for skin cancer chemoprevention in high-risk patients *abs# 170*
- 5:15 PM **Vanisri Raviraj**
Loss of RELN activity switches TGF- β from a tumour suppressor to a tumour promoter in head and neck squamous cell carcinomas *abs# 171*

Targeting the Pancreatic Cancer Microenvironment

3:30pm - 5:30pm

Meeting Room 108

Chairs: John Windsor & Richard Turner

- 3:30 PM **Gabriele Bergers**
Intertwined regulation of angiogenesis and immunity in pancreatic neuroendocrine tumors (PNET) *abs# 172*
- 4:00 PM **Phoebe Phillips**
Stromal pancreatic stellate cells as therapeutic targets in pancreatic cancer: Current evidence and future strategies *abs#173*
- 4:30 PM **Paul Timpson**
Improving targeting of the pancreatic tumour microenvironment using intravital imaging and biosensors *abs# 174*
- 4:30 PM **Agi Hirschberg**
Philanthropy

Developing Novel Therapies for Heart Disease

3:30pm - 5:30pm

Meeting Room 111

Chairs: Colleen Thomas & Dominic Ng

Session Sponsored by:



- 3:30 PM **Enzo Porello**
Understanding the molecular mechanisms that regulate cardiac regenerative capacity in mammals *abs# 175*
- 4:00 PM **Vicky Johnstone**
Optimising morpholino oligo peptide therapy in the treatment of mdx cardiomyopathy *abs# 176*
- 4:30 PM **Chengxue Qin**
Cardioprotective effects of annexin-a1 against myocardial infarction *abs# 177*
- 5:00 PM **Andrew Bulmer**
Bilirubin induces cardiac stress resistance: from physiological protection to therapeutic approaches *abs# 178*

Immune Activation in Chronic Viral Infections

3:30pm - 5:30pm

Meeting Room 112

Chairs: Miles Davenport & Gilda Tachedjian

- 3:30 PM **Charles Bangham**
The human leukaemia virus HTLV-1 *abs# 179*
- 4:30 PM **Rajiv Khanna**
Clinical translation of cellular therapies for chronic viral infections
and associated malignancies *abs# 180*
- 5:00 PM **Allison Abendroth**
Shingles and the persistence of varicella zoster virus *abs# 181*

Poster Session Listings

Poster Session A – Monday

5:30pm – 6:30pm

Level 1 Foyer 2

ACCG/PROBENET POSTER PRESENTATIONS

Farzan Bahin

Long term outcomes of complete endoscopic resection for Barrett's Oesophagus with high-grade dysplasia and early oesophageal adenocarcinoma *abs# 230*

Antony Burgess

Restoring E-cadherin mediated cell-cell adhesion in Wnt hyper-activated colorectal cancer cells *abs# 231*

Moritz Eissmann

Genetic and pharmacological targeting of Mast Cells inhibits inflammation-associated gastric tumourigenesis *abs# 232*

Matthias Ernst

gp130/Jak/Stat3 inhibition blocks WNT signalling-mediated intestinal tumourigenesis and regeneration *abs# 233*

Maree Faux

APC regulation of cell-cell adhesion and p120-catenin isoforms in colorectal cancer cells. *abs# 234*

Lauren Hare

Preclinical studies on aspirin as a novel treatment for *Pik3ca* mutant colorectal cancer *abs# 235*

Frederic Hollande

The nuclear receptor PXR (NR1I2) drives colon cancer stem cell chemoresistance and tumour recurrence. *abs# 236*

Karen Humphreys

miR-18a inhibits CDC42 and plays a tumour suppressor role in colorectal cancer cells *abs# 237*

Thierry Jarde

ErbB3 positively correlates with intestinal stem cell markers but marks a distinct non proliferative cell population in colorectal cancer. *abs# 238*

David Liu

APR-246/PRIMA-1^{met} has significant anti-tumour activity in oesophageal adenocarcinoma expressing mutant p53 *abs# 239*

Jordane Malaterre

The role of MYB protooncogene in intestinal stem cell and cancer *abs# 240*

Ashleigh Poh

Haematopoietic Cell Kinase Activation Enhances Colorectal Cancer Development and Progression by Promoting Alternative Macrophage Polarisation *abs# 241*

Eric Smith

Expression of androgen receptor and the androgen receptor responsive gene FKBP5 in oesophageal adenocarcinoma *abs# 242*

Chin Wee Tan

Wnt signalling in colon crypt cells: E-cadherin and β -catenin spatial dynamics *abs# 243*

ASA POSTER PRESENTATIONS

V Vien Lee

Autobiographical memory bias in patients with obstructive sleep apnoea *abs# 244*

Stephen Robinson

Neuropathological hallmarks of Alzheimer's disease are more common in patients with severe obstructive sleep apnoea *abs# 245*

Anna Scovelle

Daytime sleepiness significantly influences sustained attention in older adults with Mild Cognitive Impairment *abs# 246*

ESA POSTER PRESENTATIONS

Noraidatulakma Abdullah

Characterising the genetic risk for type 2 diabetes in a Malaysian multi-ethnic cohort *abs# 247*

Seungmin Ham

Immunolocalisation of aromatase regulators LKB1, phospho-AMPK and CRTCs in the human testis *abs# 248*

Sarah Hanieh

Maternal vitamin D status and infant outcomes in rural vietnam: A prospective cohort study. *abs# 249*

ASMR POSTER PRESENTATION

Rukmali Wijayarathna

Determining the roles of activin and follistatin in the murine male reproductive tract *abs# 227*

Poster Session B – Tuesday

5:30pm – 6:30pm

Level 1 Foyer 2

ASMR POSTER PRESENTATIONS

Reyhan Akhtar

Role of Snail proteins in colorectal cancer

abs# 200

Vasso Apostolopoulos

Targeting antigens to dendritic cells: clinical outcomes after 16.5 years in early stage breast cancer patients

abs# 201

Vasso Apostolopoulos

Maca reduces blood pressure and depression, in a pilot study in postmenopausal women

abs# 202

Md Ahsan Ul Bari

Role of DHA in the prevention and rescue of neuronal cells exposed to apoptotic agents

abs# 203

Girija Chetty

Multimodal probabilistic graphical models driving significant innovations in health and disease management .

abs# 204

Ka Geen Cheung

Analysis of neurobehavioural and neuroinflammatory phenotypes in rat models of Ataxia-Telangiectasia

abs# 205

Anthony Dat

Aloe vera for treating acute and chronic wounds

abs# 206

Callum Miller

A comparison of the neuroanatomical connectivity of the paratrigeminal nucleus and the nucleus of the solitary tract in the rat

abs# 207

Jonathon Fanning

The epidemiology of silent brain infarction: a systematic review of population-based cohorts

abs# 208

Harriet Fitzgerald

Altered cytokine expression in the proliferative phase endometrium of idiopathic infertile women

abs# 209

Katharine Goodall

Mice deficient in heparanase exhibit impaired Langerhans cell and dermal dendritic cell migration

abs# 210

Nyssa Hadgraft

From the office chair to the couch: correlates of high workplace sitting and high non-work screen-time

abs# 211

Mark Hulett

Defensin-mediated tumour cell lysis involves the formation of a novel phosphoinositide recognition complex

abs# 212

Simone Jaenisch

Developing a non-invasive stable isotope assay for Ornithine Decarboxylase activity; a potential marker for Oesophageal Cancer

abs# 213

Felicita Jusof

Changes in gene expression of tryptophan-metabolising enzymes during murine development

abs# 214

Stanislaw Gluszek

The risk of complications after gastrectomy combined with splenectomy in gastric cancer

abs# 215

Kai Zheong Lim

Role of focal adhesion kinase in lysophosphatidic acid-induced migration

abs# 216

Sarah Meachem

Acute inhibition of follicle-stimulating hormone suppresses Sertoli cell tumour development *abs# 217*

Thilini Mendis

Analysis of autoantibodies and autoantigen expression in type 1 diabetes *abs# 218*

Kaavya Mohanasundaram

Prioritization of single nucleotide polymorphisms (SNPs) in the major oligomerisation domain "coiled-coils" *abs# 219*

Fatemeh Moheimani

Inhibition of β -Catenin/CBP signaling prevents epithelial-mesenchymal transition and migration of human airway epithelium *abs# 220*

Brijeshkumar Patel

Inhibitors of pde4, but not pde3, increase expression of anti-inflammatory mkp-1 in airway smooth muscle cells. *abs# 221*

Pavan Prabhala

Temporal regulation of cytokine mRNA expression by tristetraprolin: dynamic control by p38 MAPK and MKP-1 *abs# 222*

Jay Pundavela

Pronerve growth factor correlates with Gleason score and a potential driver of nerve infiltration in prostate cancer *abs# 223*

Tara Roberts

The role of SMG1 in oxidative stress, inflammation and cancer development. *abs# 224*

Sai Wang Seto

Vasomotor dysfunction in angiotensin II-infused apolipoprotein-E (ApoE^{-/-}) knockout mice. *abs# 225*

Sia Yang Tan

Deprescribing project in ttcp, red hill mullangarie unit *abs# 226*

Jean Winter

Methyl-guanine-methy-transferase repairs pro-mutagenic adducts and influences the acute apoptotic response to alkylating agents: Interactions of dietary red meat, green tea and gender *abs# 228*

Ren Ming Yang

MYB is involved in DNA damage induced cell death in human ER+ breast cancer cells. *abs# 229*

Rania Saif

Phosphorescent metallosurfactants for in vivo labeling of lipid membranes *abs#271*

APC POSTER PRESENTATIONS

Lorraine Chantrill

Expression of the axon guidance protein Robo1 is increased in pancreatic ductal adenocarcinoma from smokers compared to non-smokers *abs# 250*

Philip de Reuver

En bloc vascular resection for locally advanced pancreatic ductal adenocarcinoma; differences in outcome between venous and arterial resections *abs# 251*

Philip de Reuver

Neoadjuvant chemotherapy in pancreatic cancer is associated with decreased R1 resection rate and improved survival *abs# 252*

Dorota Koziel

Genetic mutations in acute pancreatitis *abs# 253*

Amanda Mawson

SOX9 Regulates ERBB2 in Pancreatic Cancer *abs# 254*

Ida Norrie

Analysis of *in vivo* tumour dependency on *Kras*^{G12D} *abs# 255*

Wilson Petrushnko

Prognostic Value of Pancreatic Biomarkers in Pancreatic Ductal Adenocarcinoma (PDAC): Systematic Review of the last 10 years. *abs# 256*

Pratik Rastogi

The royal north shore pancreatic cancer index (rnspi) *abs# 257*

Skye Simpson

Returning individual research results in clinico-genomics research *abs# 258*

Angela Steinmann

Aberrant Rho signalling as a viable therapeutic target in human pancreatic cancer *abs# 259*

NARF POSTER PRESENTATION

Andrew Tee

The long noncoding RNA MALAT 1 promotes tumour-driven angiogenesis by up-regulating pro-angiogenic gene expression. *abs# 260*

Poster Session C – Wednesday

12:00pm – 1:30pm

Level 1 Foyer 2

CSANZ/ISHR POSTER PRESENTATION

Jonathon Fanning

Routine early versus selective invasive strategies for management of unstable angina and non-ST elevation myocardial infarction in the stent era *abs# 261*

Yonis Abukar

Role of Endothelin-1 in the Control of Cardiac Sympathetic Nerve Activity in Heart Failure *abs# 262*

Poornima Balaji

Mending a broken heart: a potential new role for the alpha1A adrenergic receptor *abs# 263*

Eugenie Chan

Peak Current Delivery During Defibrillation in the Emergency Department *abs# 264*

Chanchal Chandramouli

Elevated cardiac AngII influences diabetic myocardial pathology differently in males and females *abs# 265*

Laura Dooley

Modulatory effects of mesenchymal stem cells on cytokine-activated coronary artery endothelial cells *abs# 266*

Lu Fang

Circulating microRNAs as biomarkers for diffuse myocardial fibrosis in patients with hypertrophic cardiomyopathy *abs# 267*

Nora Hakami

Protective role of NADPH oxidase 4 in human endothelial progenitor cells *abs# 268*

Ramona Krauss

Spontaneous sustained in utero stress augments near-term ovine fetal expression of left ventricular bta-miR-125a *abs# 269*

Lauren Smith

Irreversible oxidative modification of cysteines resulting from a prolonged high fat diet model *abs# 270*