

# AGENDA

Wednesday 25 October				
Times	Session		Abstract number	Venue
08.00 - 09.20	REGISTRATION			Foyer
09.20 - 09.30	Professor Trevor Mori	President's Welcome		Theatre
<b>Lipid Metabolism and Atherosclerosis</b>				
CHAIRS: Trevor Mori and Kerry Anne Rye				
09.30 - 09.45	Christina Bursill	STRIKINGLY DIFFERENT ATHEROPROTECTIVE EFFECTS OF APOLIPOPROTEIN A-I IN EARLY VERSUS LATE-STAGE PLAQUE	2	Theatre
09.45 - 10.00	Adele Richart	HIGH-DENSITY LIPOPROTEIN (CSL-111) DIRECTLY MODULATES INFLAMMATORY CELLS AFTER MYOCARDIAL INFARCTION IN MICE	3	Theatre
10.00 - 10.15	Ben Wu	CHOLESTERYL ESTER TRANSFER PROTEIN INHIBITION REDUCES NEOINTIMAL HYPERPLASIA IN BALLOON-INJURED NZW RABBITS WITH STENT DEPLOYMENT	4	Theatre
10.15 - 10.30	Emma Akers	LIPOPROTEINS AND THEIR MODIFIED FORMS REGULATE SMOOTH MUSCLE CELL CALCIFICATION	5	Theatre
10.30 - 10.45	Kwok Leung Ong	RELATIONSHIP OF LIPIDS AND LIPID-LOWERING MEDICATIONS WITH COGNITIVE FUNCTION: THE MULTI-ETHNIC STUDY OF ATHEROSCLEROSIS	6	Theatre
10.45 - 11.00	Ben Wu	APOLIPOPROTEIN A-I PROTECTS AGAINST PREGNANCY-INDUCED INSULIN RESISTANCE IN RATS	7	Theatre
11.00 - 11.30	<b>Morning Tea and poster viewing</b>			Terrace Room
<b>Young Investigator Oral Finalists</b>				
CHAIRS: Len Kritharides and Christina Bursill				
11.30 - 11.45	Nisha Schwarz	THE EFFECTS OF COLCHICINE ON LIPOPROTEIN AND CHOLESTEROL-CRYSTAL INDUCED MACROPHAGE ACTIVATION	8	Theatre
11.45 - 12.00	Chantal Kopecky	THE TSPO RADIOLIGAND 18F-PBR111 AS A PRE-ATHEROSCLEROTIC LESION DETECTION AGENT	9	Theatre
12.00 - 12.15	Geetha Mathew	Nox5 IS A KEY PLAYER IN DIABETES-ASSOCIATED VASCULAR COMPLICATIONS	10	Theatre
12.15 - 12.30	Jing Pang	CORONARY ARTERY DISEASE AND PLAQUE COMPOSITION IN ASYMPTOMATIC PATIENTS WITH FAMILIAL HYPERCHOLESTEROLAEMIA	11,12	Theatre
12.30 - 13.45	<b>Lunch and poster viewing</b>			Terrace Room

## New approaches to risk markers of CVD

CHAIRS: Peter Meikle and Alicia Jenkins

13.45 - 14.15	Mike Inouye	GENOMIC RISK OF CORONARY HEART DISEASE	13	Theatre
14.15 - 14.45	Stuart Cordwell	MULTI-PTM 'OMICS FOR UNDERSTANDING THE MOLECULAR BASIS OF MYOCARDIAL ISCHEMIA / REPERFUSION INJURY	14	Theatre
14.45 - 15.00	Paul Nestel	LIPIDOMIC PROFILES IMPROVE CARDIOVASCULAR RISK PREDICTION IN SECONDARY PREVENTION OVER AND ABOVE TRADITIONAL BIOMARKERS	15	Theatre
15.00 - 15.15	Yung Chih Chen	SHEDDING LIGHT ON HIGH RISK PLAQUES: NEAR INFRARED AUTOFLUORESCENCE AS NOVEL BIOMARKERS OF PLAQUE INSTABILITY	16	Theatre
15.15 - 15.30	Michael Watson	MATHEMATICAL MODELLING OF SMOOTH MUSCLE CELL MIGRATION REVEALS MECHANISMS OF EARLY FIBROUS CAP FORMATION IN ATHEROSCLEROSIS	17	Theatre
15.30 - 16.00	<b>Afternoon tea and poster viewing</b>			Terrace Room
<b>Clinical Panel</b>				
CHAIR: Steve Nicholls				
16.00 - 16.25	Steve Nicholls	UPDATE ON PCSK9 INHIBITORS		Theatre
16.25 - 16.50	Gemma Figtree	MYOCARDIAL INFARCTION IN PATIENTS WITHOUT RISK FACTORS	18	Theatre
16.50 - 17.15	Len Kritharides	TRIGLYCERIDE LOWERING STRATEGIES		Theatre
17.15 - 17.40	David Sullivan	CLINICAL ASPECTS OF GENETICS IN DYSLIPIDAEMIA		Theatre
17.40 - 18.05	Steve Nicholls	CANTOS: COOLING CARDIOVASCULAR RISK		Theatre
18.05 - 18.10	Close of Day 1			Theatre
18.10 - 19.30	<b>Welcome Reception</b>			<b>Terrace Room</b>

## Thursday 26 October

Times	Session	Abstract number	Venue
07.30 - 09.00	<b>Early Career and Student Breakfast Workshop</b>		
	Panel: Peter Psaltis, Anna Calkin, Andrew Murphy and Connie Wong	HOW TO ACHIEVE SUCCESS IN YOUR FELLOWSHIPS	Theatre
		HOW TO SUCCESSFULLY FORM AND MAINTAIN COLLABORATIONS	
		THE IMPORATNCE OF MENTORING AN BEING MENTORED	
		WOMEN IN SCIENCE	
		BALANCING CLINICAL PRACTICE AND RESEARCH LAB MANAGEMENT	
<b>Nutrition, microbiome and CVD</b>			
CHAIRS: Natalie Ward and Peter Clifton			
09.15 - 09.45	Connie Wong	MICROBIOME AND ITS ROLE IN CARDIOVASCULAR DISEASE	19 Theatre
09.45 - 10.15	Natalie Ward	DIETARY MODULATION OF THE MICROBIOME: IMPACT ON CARDIOMETABOLIC RISK FACTORS	20 Theatre
10.15 - 10.30	Peter Clifton	A SYSTEMATIC REVIEW OF THE EFFECT OF DIETARY SATURATED AND UNSATURATED FAT ON HEART DISEASE	21 Theatre
10.30 - 11.00	<b>Morning tea and poster viewing</b>		Terrace Room
<b>Student Oral Finalists</b>			
CHAIRS: Gerald Watts and Mary Kavurma			
11.00 - 11.15	Jessica Ferguson	SYNERGISTIC EFFECTS OF PHYTOSTEROLS AND CURCUMIN TO REDUCE CARDIOVASCULAR DISEASE RISK IN HYPERCHOLESTEROLAEMIC INDIVIDUALS	22 Theatre
11.15 - 11.30	Ya-Lan Ying	A PROTEOMIC APPROACH TO IDENTIFY NOVEL PROTEINS ASSOCIATED WITH ATHEROSCLEROTIC PLAQUE INSTABILITY IN THE TANDEM STENOSIS MOUSE MODEL	23 Theatre
11.30 - 11.45	Malcolm Anastasius	HDL FROM PATIENTS WITH ACUTE CORONARY SYNDROME DEMONSTRATES IMPAIRED WHOLE ANIMAL REVERSE CHOLESTEROL TRANSPORT IN APOLIPOPROTEIN A-I KNOCKOUT MICE	24 Theatre
11.45 - 12.00	Jocelyne Mulangala	CALCIUM REGULATES ANGIOGENIC MARKER EXPRESSION IN ENDOTHELIAL CELLS	25 Theatre
12.00 - 12.15	Vickie Tang	A ROLE FOR CHLORINATED NUCLEOSIDES IN THE DEVELOPMENT OF ENDOTHELIAL DYSFUNCTION IN ATHEROSCLEROSIS?	26 Theatre
12.15 - 12.30	Pradeep Manuneehi Cholan	TRAIL INHIBITS ANGIOTENSIN-II-INDUCED OXIDATIVE STRESS IN VASCULAR ENDOTHELIAL CELLS AND PROTECTS AGAINST ENDOTHELIAL DYSFUNCTION IN VIVO	27 Theatre
12.30 - 13.15	<b>Lunch and poster viewing</b>		Terrace Room

**Student moderated poster finalists**

CHAIRS: Mike Inouye and Heather Medbury

13.15 - 13.20	Sam Mirzaee	PREVALENCE OF PHENOTYPICAL FAMILIAL HYPERCHOLESTEROLEMIA IN PATIENTS WITH ACUTE CORONARY SYNDROME AND PREMATURE CORONARY ARTERY DISEASE	28	Theatre
13.20 - 13.25	Habib Francis	EFFECT OF LIPID-LOWERING TREATMENT ON FORMATION OF M1 MACROPHAGES IN PATIENTS WITH FAMILIAL HYPERCHOLESTEROLAEMIA	29	Theatre
13.25 - 13.30	Paul Thein	THE EFFECT OF SUPPLEMENTAL LIPID APHERESIS ON CORONARY PLAQUE REGRESSION; A SYSTEMATIC REVIEW AND META-ANALYSIS	30	Theatre
13.30 - 13.35	Louis Ma	WITHIN-PATIENTS VARIATION IN PLASMA CONCENTRATION OF LIPOPROTEIN(A): IMPLICATIONS OF SCREENING PROGRAMS AND NEW THERAPIES	31	Theatre

**Obesity, oxidative stress and inflammation - PART I**

CHAIRS: Anna Calkin and Paul Nestel

13.45 - 14.15	Gemma Figtree	OXIDATIVE STRESS IN THE CARDIOVASCULAR SYSTEM - THE HOPE AND THE HURDLES	32	Theatre
14.15 - 14.45	Trevor Mori	BIOMARKERS OF LIPID OXIDATIVE DAMAGE IN CVD AND CLINICAL MEDICINE	33	Theatre
14.45 - 15.00	Peter Clifton	RELATIONSHIP BETWEEN CHANGES IN FAT AND LEAN DEPOTS FOLLOWING WEIGHT LOSS AND CHANGES IN CARDIOVASCULAR DISEASE MARKERS-A VOLUNTEER LEVEL META-ANALYSIS	34	Theatre
15.00 - 15.15	Helen Williams	IMPROVED CHOLESTEROL LEVELS ARE ASSOCIATED WITH REDUCED INFLAMMATORY MONOCYTE PROFILE IN FAMILIAL HYPERCHOLESTEROLAEMIA	35	Theatre
15.15 - 15.30	Andrew Murphy	MITOCHONDRIAL DYSFUNCTION IN HUMAN CD16+ MONOCYTE DERIVED M2 MACROPHAGES IS LINKED TO FOAM CELL FORMATION	36	Theatre

**15.30 - 16.00 Afternoon tea and poster viewing**

Terrace Room

**Obesity, oxidative stress and inflammation - PART II**

CHAIRS: Andrew Murphy and Helen Williams

16.00 - 16.15	Heather Medbury	PROTEOGLYCANS AND LIPID BINDING: ARE M2 MACROPHAGES REALLY ATHEROPROTECTIVE?	37	Theatre
16.15 - 16.30	Anna Williamson	ANGIOTENSIN II REGULATES THE CLONOGENICITY, SELF-RENEWAL AND GENE EXPRESSION OF MURINE ADVENTITIAL MACROPHAGE PROGENITOR CELLS (AMPCS)	38	Theatre
16.30 - 16.45	Mary Kavurma	MONOCYTE/MACROPHAGE TRAIL IS PROTECTIVE IN ATHEROSCLEROSIS AND MODULATES CELL FUNCTION	39	Theatre
16.45 - 17.00	Malcolm Anastasius	HUMAN HDL MODIFIED BY MYELOPEROXIDASE DEMONSTRATES IMPAIRED WHOLE ANIMAL REVERSE CHOLESTEROL TRANSPORT IN APOLIPOPROTEIN A-I KNOCKOUT MICE	40	Theatre

17.00 - 17.45 AGM and Close of Day 2

Theatre

**19.00 - 22.00 AAS ASM Awards Dinner****L'Aqua**

## Friday 27 October

Times	Session		Abstract number	Venue
<b>Exercise, Imaging and CVD</b>				
CHAIRS: David Sullivan and Barbora de Courten				
09.00 - 09.30	David Celermajer	NON INVASIVE ASSESSMENT OF ENDOTHELIAL FUNCTION - INSIGHTS INTO EARLY ATHEROSCLEROSIS	41	Theatre
09.30 - 10.00	André La Gerche	INTENSE EXERCISE, PROMOTER OR PROTECTOR OF CARDIOVASCULAR DISEASE?	42	Theatre
10.00 - 10.15	Jordan Andrews	ASSOCIATION OF CORONARY PLAQUE VOLUME AND SHORT-TERM CHANGES IN TRIGLYCERIDES IN PATIENTS WITH ACUTE CORONARY SYNDROME: INSIGHTS FROM THE CARAT STUDY	43	Theatre
10.15 - 10.30	Steven Gieseg	SPECTRAL IMAGING OF UNSTABLE ATHEROSCLEROTIC PLAQUE BY MARS-SCANNING	44	Theatre
10.30 - 10.45	Cristian Vargas Garcia	PREDICTORS OF CORONARY ARTERY CALCIUM IN PATIENTS WITH FAMILIAL HYPERCHOLESTEROLEMIA	45	Theatre
10.45 - 11.15	<b>Morning tea and poster viewing</b>			Terrace room
<b>Insulin resistance, diabetes and CVD</b>				
CHAIRS: André La Gerche and Belinda Di Bartolo				
11.15 - 11.45	Alicia Jenkins	DIABETES AND VASCULAR DISEASE - AN UPDATE OF THERAPIES AND KNOWLEDGE GAPS	46	Theatre
11.45 - 12.15	Barbora de Courten	LOW COST INTERVENTIONS FOR PREVENTION OF CARDIOMETABOLIC RISK FACTORS AND DISEASE	47	Theatre
12.15 - 12.30	Joanne Tan	THE REGULATION OF MIRNAS IN HDL-INDUCED RESCUE OF DIABETES-IMPAIRED ANGIOGENESIS	48	Theatre
12.30 - 13.30	<b>Lunch and poster viewing</b>			Terrace room
<b>Indigenous Health and CVD: Past, present, future</b>				
CHAIR: Trevor Mori				
13.30 - 14.00	Michael Gracey	MEETING THE CHALLENGES TO IMPROVE ABORIGINAL HEART HEALTH	49	Theatre
14.00 - 14.30	Alan Cass	CLOSING THE GAP: WHAT ARE THE PRIORITIES TO BE ADDRESSED?	50	Theatre
<b>14.30 - 14.35 CLOSE</b>				

## Posters

<b>Sam Mirzaee</b>	PREVALENCE OF PHENOTYPICAL FAMILIAL HYPERCHOLESTEROLEMIA IN PATIENTS WITH ACUTE CORONARY SYNDROME AND PREMATURE CORONARY ARTERY DISEASE	28
<b>Habib Francis</b>	EFFECT OF LIPID-LOWERING TREATMENT ON FORMATION OF M1 MACROPHAGES IN PATIENTS WITH FAMILIAL HYPERCHOLESTEROLAEMIA	29
<b>Paul Thein</b>	THE EFFECT OF SUPPLEMENTAL LIPID APHERESIS ON CORONARY PLAQUE REGRESSION; A SYSTEMATIC REVIEW AND META-ANALYSIS	30
<b>Louis Ma</b>	WITHIN-PATIENTS VARIATION IN PLASMA CONCENTRATION OF LIPOPROTEIN(A): IMPLICATIONS OF SCREENING PROGRAMS AND NEW THERAPIES	31
<b>Michael Ditiatkovski</b>	APOLIPOPROTEIN AI MIMETIC PEPTIDES: DISCORDANCE BETWEEN IN VITRO AND IN VIVO PROPERTIES	51
<b>Diana Magat</b>	APOA1 TREATMENT HAS NO EFFECT ON MONOCYTE PROPORTIONS, LIPID CONTENT OR HSPC COUNT & PROPORTION IN LDLR-/- MICE	52
<b>Maaik Kockx</b>	ROLE OF GLYCAN ATTACHMENT IN THE PROTEOLYTIC CLEAVAGE OF APOLIPOPROTEIN E	53
<b>Jordan Andrews</b>	OBSTRUCTIVE SLEEP APNOEA ASSOCIATES WITH SHORT-TERM PROGRESSION OF CORONARY ATHEROSCLEROSIS IN PATIENTS WITH ACUTE CORONARY SYNDROME: INSIGHTS FROM THE CARAT STUDY	54
<b>Louis Ma</b>	LIPOPROTEIN(a) AND LDL PARTICLE METABOLISM FOLLOWING APHERESIS	55
<b>Ishraq Uddin</b>	DISSECTING A VIRTUAL PLAQUE: COMPUTATIONAL MODELLING OF EARLY ATHEROSCLEROTIC PLAQUE STRUCTURE	56
<b>Sam Mirzaee</b>	BARRIERS IN OPPORTUNISTIC SCREENING OF FAMILIAL HYPERCHOLESTEROLEMIA THROUGH TERTIARY CARE LENS	57
<b>Katrina Ellis</b>	FAMILIAL HYPERCHOLESTEROLAEMIA BUT NOT ELEVATED LIPOPROTEIN(A) IS ASSOCIATED WITH SUBCLINICAL ATHEROSCLEROSIS IN A COMMUNITY-BASED COHORT	58
<b>Kwok Leung Ong</b>	RELATIONSHIP OF HDL CHOLESTEROL WITH RENAL FUNCTION IN PATIENTS WITH STABLE CORONARY ARTERY DISEASE TREATED WITH ATORVASTATIN (FROM THE TREATING TO NEW TARGETS STUDY)	59