

FULL PROGRAM

Wednesday 29 November

08.00 - 16.00	REGISTRATION OPEN	rooms 1&2
09.00 - 12.00	ECR / New Investigator Workshop	room 4
10.00 - 12.30	Clinical Workshop	room 3
Early Career Researcher Workshop VIC Uni City Convention Centre – Room 4		Clinical Workshop Room 3
Workshop	Session	Speaker
09.00 - 09.05	Welcome and Introduction	Rachel Climie
09.05 - 09.35	Designing a career in medical research	Bronwyn Kingwell
09.35 - 10.05	Grant writing – how to sell yourself and your one pager	Gavin Lambert and Francine Marques
10.05 - 10.35	Writing skills – how to be efficient and productive	James Sharman
10.35 - 11.20	Career panel	Francine Marques (ECR) Markus Schlaich (Clinical perspectives) Katherine Jackman (Alternative careers in science) Shane Huntington (Science communication)
11.20 - 12.00	ECR Networking	
12.00 - 13.00	LUNCH - rooms 1&2	
Chairs: Michael Stowasser & Mark Nelson		
Workshop	Session	Speaker
10.00 – 10.25	BP lowering targets: is SPRINT cost-effective and has it affected guidelines?	Mark Nelson
10.25 – 10.50	Update on interventional approaches in hypertension	Markus Schlaich
10.50 – 11.15	Update on primary aldosteronism: should all hypertensives be screened?	Michael Stowasser Jun Yang
11.15 – 11.40	What's new in pregnancy-associated hypertension?	Annemarie Hennessy
11.40 – 12.00	Hypercholesterolemia: new treatment options	Richard O' Brien
12.00 – 12.20	Discussion and Q&A	
12.20 - 13.00	LUNCH - rooms 1&2	

HBPRCA ANNUAL SCIENTIFIC MEETING

Chair: Michael Stowasser

13.50 - 14.00	Michael Stowasser	President's Welcome	room 3
14.00 - 14.30	David Ellison	RD Wright Lecture: ALDOSTERONE, POTASSIUM AND HYPERTENSION	1 room 3
14.30 - 15.30	AHNA Nurses AGM		room 4

SESSION A: CLINICAL HYPERTENSION I**Chairs: Anastasia Mihailidou and Martin Schultz**

14.30 - 14.40	Stephen Harrap	DOES ACTIVE STANDING REVEAL QUALITATIVE PHYSIOLOGICAL DIFFERENCES IN CARDIOVASCULAR RESPONSES?	2	room 3
14.40 - 14.50	Jimmy Shen	AMBULATORY BLOOD PRESSURE MONITORING MAY FLAG PRIMARY ALDOSTERONISM IN HYPERTENSIVE PATIENTS	3	room 3
14.50 - 15.00	Mark Butlin	MEASURING BLOOD PRESSURE DEPENDENCY OF LARGE ARTERY STIFFNESS USING POSTURAL CHANGE	4	room 3
15.00 - 15.10	Emily Atkins	REGRESSION TO THE MEAN WITH AMBULATORY BLOOD PRESSURE	5	room 3
15.10 - 15.20	Niamh Chapman	EFFECT OF BLOOD COLLECTION ON BLOOD PRESSURE AND SUBSEQUENT ABSOLUTE CARDIOVASCULAR DISEASE RISK ASSESSMENT	6	room 3
15.20 - 15.30	Mårkus Schlaich	THE GLOBAL SYMPLICITY REGISTRY: SAFETY AND EFFICACY REPORT	7	room 3
15.30 - 16.00	AFTERNOON TEA			rooms 1&2

SESSION B: CLINICAL HYPERTENSION II**Chairs: Mårkus Schlaich and Rachel Climie**

16.00 - 16.10	Geoff Head	NOVEL IDENTIFICATION OF NOCTURNAL HYPERTENSION AND THE PREDICTION OF CARDIOVASCULAR DEATH IN A GENERAL POPULATION	8	room 3
16.10 - 16.20	Chau Ho	TEN-YEAR LEGACY EFFECTS OF DELAYED LIPID LOWERING DRUG TREATMENT ON CARDIOVASCULAR DISEASE IN THE SECOND AUSTRALIAN NATIONAL BLOOD PRESSURE STUDY (ANBP2)	9	room 3
16.20 - 16.30	Alberto Avolio	COMPARISON OF CENTRAL AND PERIPHERAL ARTERIAL PRESSURE FOR ASSESSMENT OF SUBCLINICAL TARGET ORGAN DAMAGE	10	room 3
16.30 - 16.40	Leopold Aminde	COST-EFFECTIVENESS OF INTERVENTIONS FOR CARDIOVASCULAR DISEASE PREVENTION IN LOW AND MIDDLE INCOME COUNTRIES: A SYSTEMATIC REVIEW	11	room 3
16.40 - 16.50	Lawrie Beilin	RELATIONSHIPS BETWEEN DEPRESSION AND ANXIETY SYMPTOMS SCORES AND BLOOD PRESSURE IN YOUNG ADULTS	12	room 3
16.50 - 17.00	Matthew Armstong	BLOOD PRESSURE-INDEPENDENCE OF AORTIC-TO-BRACHIAL ARTERY STIFFNESS RATIO DIFFERS ACCORDING TO DISEASE STATUS	13	room 3
17.00 - 19.00	WELCOME RECEPTION			room 1&2

Thursday 30 November					
TIMES	SESSION			Abstract No	Venue
08.00 - 17.30	REGISTRATION OPEN				
08.25 - 08.30	WELCOME - Day 2				
Chair: Michael Stowasser					
08.30 - 09.00	Caroline McMillen	Austin Doyle Lecture: 'THE MIGHTY DEAD: WHY HOMER MATTERS' OUR PAST DETERMINES OUR FUTURE	14	room 3	
SESSION C: RENIN ANGIOTENSIN-ALDOSTERONE SYSTEM AND BLOOD PRESSURE					
Chairs: Rob Widdop and Claudia McCarthy					
09.00 - 09.10	Zeng Guo	COMPARISON BETWEEN THE ALDOSTERONE/ RENIN RATIO AND THE ALDOSTERONE/ ANGIOTENSIN II RATIO AS A SCREENING TEST FOR PRIMARY ALDOSTERONISM	15	room 3	
09.10 - 09.20	Aihua Wu	CAN EFFECTS OF MINERALOCORTICOIDS ON -ENAC CLEAVAGE IN HUMAN BE ASSESSED NON-INVASIVELY BY STUDYING URINARY EXOSOMES?	16	room 3	
09.20 - 09.30	Robert Widdop	COMBINED AT2 RECEPTOR STIMULATION AND AT1 RECEPTOR BLOCKADE DOES NOT CAUSE RENAL DYSFUNCTION	17	room 3	
09.30 - 09.40	Madeleine Paterson	GLOBAL DELETION OF MICRORNA-181A RESULTS IN ELEVATED BLOOD PRESSURE IN MICE	18	room 3	
09.40 - 09.50	Chrishan Samuel	SERELAXIN ATTENUATES THE ANGIOTENSIN II-INDUCED PRESSOR RESPONSE AND RENAL FIBROSIS IN AGED FEMALE MICE VIA AN AT2 RECEPTOR-DEPENDENT PATHWAY	19	room 3	
09.50 - 10.00	Zeng Guo	APPLICATION OF A NOVEL ANGIOTENSIN II ASSAY IN CONFIRMATORY TESTING FOR PRIMARY ALDOSTERONISM	20	room 3	
10.00 - 10.10	Jun Yang	CURRENT PATTERN OF PRIMARY ALDOSTERONISM DIAGNOSIS: DELAYED AND COMPLICATED	21	room 3	
10.10 - 10.20	Aihua Wu	ACUTE SODIUM LOADING DECREASES NCC ABUNDANCE AND ITS PHOSPHORYLATION IN HUMAN URINARY EXOSOMES	22	room 3	
Chair: Michael Stowasser					
10.20 - 10.50	MORNING TEA			room 1&2	
10.50 - 11.20	Fadi Charchar	Colin I Johnston Lecture Y IS THERE A RISK TO BEING MALE?	23	room 3	
SESSION D: NEW THERAPIES					
Chairs: Tracey Gaspari and Yugeesh Lankadeva					
11.20 - 11.30	Kaki Fan	INHIBITION OF INSULIN REGULATED AMINOPEPTIDASE STABILISES EXISTING ABDOMINAL AORTIC ANEURYSMS	24	room 3	
11.30 - 11.40	Marija Jelinic	CONTINUOUS 10 DAY RELAXIN TREATMENT IMPROVES MESENTERIC ARTERY AND RENAL FUNCTION IN SPONTANEOUSLY HYPERTENSIVE RATS	25	room 3	
11.40 - 11.50	Cindy Nguyen	ARYL HYDROCARBON RECEPTOR INHIBITION RESTORES INDOXYL SULPHATE-MEDIATED ENDOTHELIAL DYSFUNCTION: A NOVEL TARGET FOR CARDIOVASCULAR DISEASE	26	room 3	
11.50 - 12.00	Emilio Badoer	CENTRAL ADMINISTRATION OF INSULIN COMBINED WITH RESISTIN REDUCES RENAL SYMPATHETIC NERVE ACTIVITY IN RATS FED A HIGH FAT DIET	27	room 3	
12.00 - 12.10	Markus Schlaich	LONG-TERM EFFECT OF TRANSVENOUS CAROTID BODY ABLATION IN THE TREATMENT OF PATIENTS WITH RESISTANT HYPERTENSION	28	room 3	
12.10 - 12.20	Beverley Giam	N-ACETYLCYSTEINE REVERSES ESTABLISHED RENAL FIBROSIS AND RESTORES RENAL FUNCTION IN A MOUSE MODEL OF DILATED CARDIOMYOPATHY	29	room 3	

12.20 - 12.30	Yugeesh Lankadeva	EFFECTS OF AGGRESSIVE FLUID RESUSCITATION ON RENAL MICROCIRCULATORY OXYGEN HANDLING IN OVINE SEPTIC ACUTE KIDNEY INJURY	30	room 3
12.20 - 12.40	Katrina Chau	EFFECT OF PLACENTAL GROWTH FACTOR ON TROPHOBLAST INTEGRATION INTO ENDOTHELIAL CELL NETWORKS	31	room 3
12.40 - 12.50	Ricardo Fonseca	CLINICAL DECISIONS ON HYPERTENSION MANAGEMENT WILL DIFFER ON THE BASIS OF BRACHIAL VERSUS CENTRAL BLOOD PRESSURE	32	room 3
12.50 - 14.00	LUNCH			room 1&2
Student oral finalists				
Chairs: Barb Kemp-Harper and Chishan Samuel				
14.00 - 14.15	Yan Wang	COMPARISON OF THE ANTI-FIBROTIC EFFECTS OF THE AT2 RECEPTOR AGONIST BETA-ILE5-ANGII, CANDESARTAN CILEXETIL AND CAPTOPRIL IN A HIGH SALT-INDUCED MOUSE MODEL OF HEART DISEASE	33	room 3
14.15 - 14.30	Ashenafi Betrie	ZINC IONOPHORES AS NOVEL VASODILATOR AGENTS	34	room 3
14.30 - 14.45	Nurul Aisha Zainal Abidin	THERAPEUTIC POTENTIAL OF CYCLODEXTRIN IN HYPERTENSION-INDUCED INFLAMMATION	35	room 3
14.45 - 15.00	Giannie Barsha	TARGETING THE AT2R TO MAINTAIN CARDIOVASCULAR PROTECTION IN AGED FEMALES	36	room 3
15.00 - 15.15	Nathan Devries	ANGIOTENSIN CONVERTING ENZYME INHIBITORS PROTECT AGAINST TELOMERE SHORTENING IN SPONTANEOUSLY HYPERTENSIVE RAT	37	room 3
15.15 - 15.30	Kevin Lam	MEASUREMENT OF DIASTOLIC BLOOD PRESSURE IN CHILDREN AND ADOLESCENTS AT REST AND AFTER EXERCISE: 4TH VS 5TH KOROTKOFF PHASE	38	room 3
15.30 - 16.00	AFTERNOON TEA			room 1&2
ECR oral finalists				
Chairs: Pamela Davern and Geoff Head				
16.00 - 16.15	Francine Marques	THE USE OF RESISTANT STARCHES AND METABOLITES OF THE GUT MICROBIOTA TO LOWER BLOOD PRESSURE AND PREVENT CARDIOVASCULAR DISEASE	39	room 3
16.15 - 16.30	Kristy Jackson	LOW MICRORNA-181A CAUSED BY OVERACTIVE RENAL SYMPATHETIC NERVES CONTRIBUTES TO HYPERTENSION IN SCHLAGER BPH/2J MICE	40	room 3
16.30 - 16.45	Jonathan Mynard	OVERESTIMATION OF BRACHIAL SYSTOLIC AND PULSE PRESSURE BY THE OSCILLOMETRIC METHOD DURING CHILDHOOD AND ADOLESCENCE	41	room 3
16.45 - 17.00	Ashraf Ahmed	SEATED SALINE SUPPRESSION TESTING FOR THE DIAGNOSIS OF PRIMARY ALDOSTERONISM – A FINAL STUDY	42	room 3
17.00 - 17.15	Naoya Iguchi	EFFECTS OF VOLATILE AND INTRAVENOUS GENERAL ANAESTHESIA AND INSPIRED OXYGEN FRACTION ON GLOBAL AND REGIONAL KIDNEY OXYGENATION IN SHEEP	43	room 3
17.15 - 17.30	Mark Waddingham	BOOSTING SMALL HEAT SHOCK PROTEINS LOWERS LEFT VENTRICULAR DIASTOLIC STIFFNESS IN EXPERIMENTAL HEART FAILURE WITH PRESERVED EJECTION FRACTION	44	room 3
17.30 - 17.35	Close of Day 2			room 3
19.00 - 22.00	HBPRCA ASM Awards Dinner			RACV Club - Club Pavillion

Friday 1 December				
TIMES	SESSION		Abstract No	Venue
08.15 - 15.30	REGISTRATION OPEN			
08.45 - 08.50	WELCOME - Day 3			
Chair: Michael Stowasser				
08.50 - 09.10	Conor Kerley	BHS Award winner: DIETARY NITRATE: NOVEL, INNOVATIVE ROLES IN COMMON, DIVERSE, CARDIOMETABOLIC DISORDERS	45	room 3
SESSION E: GENETICS VERSUS ENVIRONMENT IN HYPERTENSION				
Chairs: Fadi Charchar and Francine Marques				
09.10 - 09.20	Brian Morris	ANALYSIS OF POLYMORPHISMS IN 47 GENES DIFFERENTIALLY EXPRESSED DURING CALORIC RESTRICTION FOR ASSOCIATION WITH HUMAN LONGEVITY	46	room 3
09.20 - 09.30	Stephen Harrap	LONG-TERM GENETIC REPROGRAMMING FOLLOWING SHORT-TERM RENIN-ANGIOTENSIN SYSTEM INHIBITION IN THE SPONTANEOUSLY HYPERTENSIVE RAT	47	room 3
09.30 - 09.40	Priscilla Prestes	MICRORNA SIGNATURES AND GENE EXPRESSION OF GENES INVOLVED IN MONOGENIC CARDIOMYOPATHY IN A POLYGENIC MODE	48	room 3
09.40 - 09.50	Ingrid Wise	SPECIFICITY OF DNA METHYLATION PATTERNS IN THE HYPERTENSIVE KIDNEY	49	room 3
09.50 - 10.00	Beverley Giam	RESTORING IMPAIRED L-ARGININE TRANSPORT CAN ATTENUATE RENAL FIBROSIS AND INFLAMMATION IN A MOUSE MODEL OF DILATED CARDIOMYOPATHY	50	room 3
10.00 - 10.10	Mukesh Raipuria	IMPACTS OF MATERNAL OBESITY AND VOLUNTARY EXERCISE DURING PREGNANCY ON CARDIOMETABOLIC RISK FACTORS IN ADULT OFFSPRING	51	room 3
10.10 - 10.20	Brian Morris	FROM POLYGENIC TO OMNIGENIC: DIRECT GENE-GENE INTERACTIONS INVOLVING FOXO3 AT THE CENTRAL HUB OF A 46-GENE CELL RESILIENCE "GENE FACTORY" ON HUMAN CHROMOSOME 6	52	room 3
10.20 - 10.30	Liping Huang	SPOT URINE AND 24-H URINE FOR DETECTING CHANGES IN POPULATION SALT INTAKE	53	room 3
10.30 - 10.40	Conor Kerley	NUTRITIONAL STRATEGIES TO PREVENT AND TREAT HEART FAILURE: A COMPREHENSIVE REVIEW OF HUMAN STUDIES	54	room 3
10.40 - 11.00	MORNING TEA			room 1&2
Chair: Michael Stowasser				
11.00 - 11.20	Meena Madhur	AHA Award winner: SEVENTEEN WAYS TO TREAT HYPERTENSION	55	room 3
SESSION F: COMPLICATIONS OF HYPERTENSION				
Chairs: Brad Broughton and Anna Watson				
11.20 - 11.30	Brad Broughton	THE EFFECT OF HUMAN AMNION EPITHELIAL CELL-DERIVED EXOSOMES ON LYMPHOID TISSUE FOLLOWING EXPERIMENTAL ISCHAEMIC STROKE	56	room 3
11.30 - 11.40	Yugeesh Lankadeva	ASSESSING GLOBAL AND REGIONAL KIDNEY PERFUSION AND OXYGENATION DURING SURGERY ON CARDIOPULMONARY BYPASS USING A PRE-CLINICAL OVINE MODEL	57	room 3
11.40 - 11.50	Julian Sacre	ASSOCIATIONS OF ALBUMINURIA AND RENAL IMPAIRMENT WITH COGNITIVE FUNCTION: A 12-YEAR FOLLOW-UP STUDY	58	room 3
11.50 - 12.00	Anna Watson	HYPERTENSION AND DIABETES DIFFERENTIALLY AFFECT RENAL REACTIVE OXYGEN SPECIES AND CATECHOLAMINE CONTENT	59	room 3
12.00 - 12.10	Tracey Gaspari	INHIBITION OF INSULIN REGULATED AMINOPEPTIDASE REVERSES AGE-INDUCED CARDIAC FIBROSIS AND RESTORES LEFT VENTRICULAR FUNCTION	60	room 3

12.10 - 12.20	Yutang Wang	MOXONIDINE INHIBITS ANGIOTENSIN II-INDUCED ATHEROSCLEROSIS IN MICE	61	room 3
12.20 - 12.30	Naoya Iguchi	DIFFERENTIAL EFFECTS OF INTRAVENOUS FUROSEMIDE ON RENAL MEDULLARY OXYGENATION IN HEALTHY AND SEPTIC SHEEP	62	room 3
12.30 - 13.30	LUNCH			room 1&2
SESSION G: MECHANISMS OF HYPERTENSION				
Chairs: Kristy Jackson and Andrew Allen				
13.30 - 13.40	Andrew Allen	DOES RESPIRATORY MODULATION OF SYMPATHETIC NERVE ACTIVITY CAUSE HYPERTENSION?	63	room 3
13.40 - 13.50	Pamela Davern	NOVEL STRESS AND LOW DOSE ANGIOTENSIN II SELECTIVELY INCREASE BLOOD PRESSURE FOLLOWING EXPOSURE TO CHRONIC STRESS IN MICE	64	room 3
13.50 - 14.00	Maria Zaldivia	RENAL DENERVATION DECREASES THE PLATELET ACTIVATION STATUS IN HYPERTENSIVE PATIENTS	65	room 3
14.00 - 14.10	Quynh Nhu Dinh	IMPORTANCE OF T LYMPHOCYTES, ESTROGEN AND THE G PROTEIN COUPLED ESTROGEN RECEPTOR 1 IN ALDOSTERONE/SALT-INDUCED HYPERTENSION	66	room 3
14.10 - 14.20	Mark Butlin	NITRIC OXIDE ASSOCIATED PROTEINS OF VASCULAR ENDOTHELIAL CELLS ARE MODIFIED BY RATE OF PULSATILE STRETCH	67	room 3
14.20 - 14.30	Alberto Avolio	PULSATILE STRETCH LEADS TO ELEVATED AMYLOID BURDEN AND IMPAIRED NITRIC OXIDE SIGNALLING IN HUMAN CEREBRAL MICROVASCULAR ENDOTHELIAL CELLS	68	room 3
14.30 - 14.40	Zeng Guo	APPLICATION OF A NOVEL ANGIOTENSIN II ASSAY, INCLUDING A COMPARISON OF RENIN, ANGIOTENSIN II AND ALDOSTERONE IN RESPONSE TO UPRIGHT POSTURE STIMULATION IN PATIENTS WITH AND WITHOUT PRIMARY ALDOSTERONISM	69	room 3
14.40 - 14.50	Hikaru Hashimura	SALINE SUPPRESSION TESTING MAY PREDICT THE SUBTYPE OF PRIMARY ALDOSTERONISM	70	room 3
14.50 - 15.00	Alberto Avolio	RELATIONSHIP OF CEREBRAL BLOOD FLOW AND CENTRAL AORTIC PRESSURE WITH AGE AND HYPERTENSION	71	room 3
15.00 - 15.30	AFTERNOON TEA			room 1&2
15.30 - 16.30	AGM and Close			room 3