

## 2022 HBPRCA ASM Program

### Tuesday Dec 6th

TIMES	SESSION	VENUE
1900-2000	Pressure Wise	Online

### Wednesday Dec 7th

TIMES	SESSION	Topic
0900-1100	ECR Symposium	
1100-1200	Exec Meeting	
1200	REGISTRATION OPEN	
<b>HBPRCA ANNUAL SCIENTIFIC MEETING BEGINS</b>		
<b>Session 1</b>	<b>Chairs: Jim Sharman and Helena Qin</b>	
1250-1300	Welcome	Markus Schlaich
1300-1330	RD Wright - Tazeen Jafar	Innovative Health Systems Solutions for Addressing Global Disparities in Hypertension Control
1330-1350	Kristen Bubb	Investigating Novel Therapies for Pulmonary Arterial Hypertension
1350-1435	<b>Oral Free</b>	<b>Blood pressure trends and risk factors</b>
1350-1405	Markus Schlaich	TRENDS IN BLOOD PRESSURE CHANGES, HYPERTENSION RATES, AND BODY MASS INDEX IN AUSTRALIAN ADULTS BEFORE AND DURING THE COVID-19 PANDEMIC
1405-1420	Katie Harris	SEX HORMONES AND THE RISK OF MYOCARDIAL INFARCTION IN WOMEN AND MEN: A PROSPECTIVE COHORT STUDY IN THE UK BIOBANK
1420-1435	Tenghao Zheng	CONSTIPATION IS ASSOCIATED WITH THE RISK OF HYPERTENSION AND MAJOR ADVERSE CARDIAC EVENTS IN A UK GENERAL POPULATION
1435-1455	AFTERNOON TEA & POSTER VIEWING	
1455-1525	<b>ECR Poster Finalists - Roaming judges</b>	
	Maria Jelinic	INTERLEUKIN-18 IS A CRITICAL DRIVER OF ANGIOTENSIN II-INDUCED CARDIAC REMODELLING IN MICE
	Tan Bui	SEX DIFFERENCES IN AUTOMATED COMPARED WITH MANUAL BLOOD PRESSURE MEASUREMENT
	Joanne O'Donnell	EXPLORING THE ROLE OF NECROPTOSIS IN HYPERTENSION
	Gianni Sesa-Ashton	AMBULATORY BP DERIVED SALT SENSITIVITY INDEX AS A PREDICTOR OF THE BP RESPONSE TO RENAL DENERVATION
	Ashenafi Betrie	INVESTIGATION OF THE IMPACT OF ZINC IN VASCULAR PHYSIOLOGY AND PATHOPHYSIOLOGY OF HEART SURGERY-ASSOCIATED ACUTE KIDNEY INJURY
<b>Session 2</b>	<b>Chairs: Markus Schlaich and Dean Picone</b>	
1525-1545	Tony Walton	Current results of renal denervation
1545-1700	<b>Student Oral Finalists</b>	
1545-1600	Rachel Peiris	INTERRUPTING SPLANCHNIC SYMPATHETIC NERVE SIGNALLING TO ACCELERATE BACTERIAL CLEARANCE AND IMPROVE CLINICAL STATUS IN OVINE GRAM-NEGATIVE SEPSIS
1600-1615	Alex Peh	BACTERIA TRANSLOCATION TO THE BRAIN AFTER ACUTE STROKE IS ASSOCIATED WITH THE SYMPATHETIC NERVOUS SYSTEM IN MICE

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1615-1630	Crisdion Krstevski	MULTIOMIC SINGLE-CELL TRANSCRIPTIONAL AND EPIGENETIC MAPPING REVEALS CELLULAR AND MOLECULAR MECHANISMS DRIVING REVERSIBLE CARDIAC FIBROSIS INDUCED BY HYPERTENSION
1630-1645	Jaideep Singh	DEFICIENCY OF ANNEXIN A1 EXAGGERATES HYPERTENSION-INDUCED END-ORGAN DAMAGE IN THE HEART AND VASCULATURE IN MALE AND FEMALE MICE
1645-1700	Peng-Cheng Wang	INVESTIGATING THE THERAPEUTIC UTILITY OF HUMAN AMNIOTIC EPITHELIAL CELL-DERIVED EXOSOMES IN PULMONARY HYPERTENSION
1700-1720	2021 Paul Korner Awardee - Geoff Head	Novel mechanisms for sympathetic activation in hypertension
Session 3		
1730-1830	Business Meeting	
1830-2030	GP Education Evening	Dining Room

**Thursday Dec 8th**

TIMES	SESSION	Topic
Session 4	<b>Chairs: Elisabeth Lambert and Claudia McCarthy</b>	
0850-0900	WELCOME - Day 2	Markus Schlaich
0900-0930	Colin Johnston - Rebecca Ritchie	Insights into protecting the function of the heart - the round trip journey from patients to cells through to preclinical models back to human heart failure
0930-0950	Aaron Sverdlov	Hypertension and targeted cancer therapies: what do we know?
0950-1050	<b>Oral Free</b>	<b>Brain and CNS</b>
0950-1005	Quynh Nhu Dinh	CEREBRAL VASCULAR TRANSCRIPTOME PROFILING REVEALS INTERMITTENT FASTING MODULATES CHRONIC CEREBRAL HYPOPERFUSION-INDUCED DISEASE PATHWAYS
1005-1020	Brian Morris	FOXO3 LONGEVITY GENOTYPE PROTECTS ELDERLY MEN WITH LATE-LIFE HYPERTENSION FROM ALZHEIMER'S DISEASE
1020-1035	Lindsea Booth	SELECTIVE OPTOGENETIC STIMULATION OF EFFERENT FIBRES IN THE VAGUS NERVE OF A LARGE MAMMAL
1035-1050	Clive May	REVERSAL OF SEPSIS-INDUCED VASOPLEGIA AND BRAIN AND KIDNEY HYPOXIA WITH MEGADOSE SODIUM ASCORBATE IN OVINE GRAM-NEGATIVE SEPTIC SHOCK
1050-1120	<b>MORNING TEA</b>	
Session 5	<b>Chairs: Anastasia Mihailidou and Bill Vinh</b>	
1120-1220	<b>ECR Oral Finalists</b>	
1120-1135	Bhavisha Bakrania	SOLUBLE GUANYLATE CYCLASE STIMULATORS AND ACTIVATORS ATTENUATE PRODUCTION OF SFLT-1 AND IMPROVE VASCULAR FUNCTION IN PLACENTAL-ISCHAEMIC RATS
1135-1150	Audrey Adji	SYSTEMIC CIRCULATORY PULSATILE ENERGY EFFICIENCY IMPROVES WITH TIME IN AORTIC STENOSIS PATIENTS TREATED WITH TRANSCATHETER AORTIC VALVE REPLACEMENT
1150-1205	Jun Yang	EFFECT OF ORAL CONTRACEPTION ON BLOOD PRESSURE AND SCREENING TESTS FOR PRIMARY ALDOSTERONISM: A 10-YEAR LONGITUDINAL STUDY
1205-1220	Tan Bui	ACCURACY OF CUFF BLOOD PRESSURE AND SYSTOLIC BLOOD PRESSURE AMPLIFICATION
1220-1240	BIHS Awardee - Luca Faconti	Pre-load reduction augments the early phase of left ventricular contraction and improves diastolic function in hypertension
1240-1410	<b>LUNCH</b>	
Session 6	<b>Chairs: Isabella Tan and Audrey Adji</b>	
1410-1510	<b>WiH Session</b>	
14.10 - 14.15	Drs Adji/Tan Welcome	

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14.15 - 14.30	Dr Jessica Borger	Breaking the bias in medical research funding to retain women in STEM
14.30 - 14.45	Prof Madhu Bhaskaran	Multi-sector collaborations enable lab to market technologies
14.45 - 15.00	Q&A and Panel Discussion	
15.00 - 15.10	Drs Adji/Tan Closing comments	
1510-1530	<b>AFTERNOON TEA &amp; POSTER VIEWING</b>	
1530-1600	<b>Student Poster Finalists - Roaming judges</b>	
	Alex Peh	SHORT-CHAIN FATTY ACIDS IMPROVE POST-STROKE RECOVERY IN MICE VIA THEIR METABOLITE-SENSING G-PROTEIN COUPLED RECEPTORS
	Chudan Xu	THE ROLE OF ORAL L-TYROSINE, METABOLISED BY THE GUT MICROBIOTA INTO P-CRESOL DERIVED METABOLITES, IN BLOOD PRESSURE REGULATION
	Hericka Bruna Figueiredo Galvao	SINGLE-CELL TRANSCRIPTOMIC CHARACTERISATION OF AORTIC LYMPHOCYTE HETEROGENEITY DURING HYPERTENSION
	Yaxing Meng	TRACKING OF BLOOD PRESSURE AND HYPERTENSION FROM CHILDHOOD TO ADULTHOOD
	Alemayehu Jufar	VALIDATING THE SAFETY OF RECRUITING THE RENAL FUNCTIONAL RESERVE ON RENAL CORTICAL AND MEDULLARY PERFUSION AND OXYGENATION IN CONSCIOUS SHEEP
Session 7	<b>Chairs: Rebecca Ritchie and Ash Betrie</b>	
1600-1700	<b>Oral Free</b>	
		<b>Inflammation and immunity</b>
1600-1615	Revathy Carnagarin	HOMOCYSTEINE AND LIPOPROTEIN (A) AS A DETERMINANT OF ARTERIAL STIFFNESS AND A PREDICTOR OF HYPERTENSION MEDIATED TARGET ORGAN DAMAGE (HMOD)
1615-1630	Song Yao	THE INFLAMMATORY CYTOKINE, INTERLEUKIN-1-BETA DRIVES CENTRAL IMMUNE CELL INFILTRATION, CHANGES IN SYMPATHETIC NERVE ACTIVITY AND BLOOD PRESSURE
1630-1645	Yifang Li	ENGINEERING BONE MARROW-DERIVED STROMAL CELLS TO DELIVER ANTI-FIBROTIC CARGO AS A NOVEL TREATMENT OPTION FOR HYPERTENSIVE KIDNEY DISEASE
1645-1700	Rikeish Muralitharan	GPR41/43 REGULATE BLOOD PRESSURE BY IMPROVING GUT BARRIER INTEGRITY AND PREVENTING TLR4 ACTIVATION
1700	<b>Close of Day 2</b>	
1730-2030	<b>HBPRCA ASM Awards Reception and Hypertension Australia Reception</b>	<b>Prince Alfred Rooftop Bar</b>

<b>Friday Dec 9th</b>		
<b>TIMES</b>	<b>SESSION</b>	<b>Topic</b>
Session 8	<b>Chairs: Rob Widdop and Hamdi Jama</b>	
0850-0900	WELCOME - Day 3	Markus Schlaich
0900-0930	Austin Doyle - Laura Mackay	Tissue-Specific Immunity
0930-1030	<b>Oral Free</b>	
		<b>Treatments</b>
0930-0945	Gianni Sesa-Ashton	LONG-TERM SAFETY AND EFFICACY OF CATHETER-BASED RENAL DENERVATION FOR IN RESISTANT HYPERTENSION: 9 YEAR FOLLOW UP DATA.
0945-1000	Mark Nelson	CHANGE IN SYSTOLIC BLOOD PRESSURE LEVEL AND CARDIOVASCULAR EVENTS IN OLDER ADULTS: FINDINGS FROM THE ASPIRIN IN REDUCING EVENTS IN THE ELDERLY TRIAL

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1000-1015	James Sharman	CUFF VERSUS CENTRAL BLOOD PRESSURE LOWERING IN PATIENTS WITH HYPERTENSION: A PROSPECTIVE, OPEN-LABEL, BLINDED-ENDPOINT, RANDOMIZED TRIAL
1015-1030	Martin Schultz	OPTIMAL CLINICAL PATHWAY FOR EXERCISE PHYSIOLOGISTS TO IDENTIFY AND MANAGE HIGH BLOOD PRESSURE VIA EXERCISE BLOOD PRESSURE MEASUREMENT: DEVELOPING A CONSENSUS STATEMENT FOR EXERCISE AND SPORT SCIENCE AUSTRALIA (ESSA)
1030-1050	AHA Awardee - Stephen Juraschek	Orthostatic Hypotension in Adults with Hypertension: A Complex Union
1050-1110	<b>MORNING TEA</b>	
Session 9	<b>Chairs: Chrishan Samuel and Sarah Walton</b>	
1110-1130	Alison Venn	Childhood Cardiovascular Risk Factors
1130-1230	<b>Oral Free</b>	<b>Blood pressure monitoring</b>
1130-1145	Jonathan Mynard	SUPERIORITY OF A REPRESENTATIVE FLOW WAVEFORM OVER PATIENT-SPECIFIC DOPPLER WAVEFORMS FOR CALCULATION OF ASCENDING AORTIC BLOOD PRESSURE REFLECTION INDICES IN CHILDREN AND ADOLESCENTS
1145-1200	Jonathan Glenning	FEASIBILITY OF HOME BLOOD PRESSURE MONITORING IN THE PAEDIATRIC OUTPATIENT CLINIC SETTING
1200-1215	Anastasia Mihailidou	KNOWLEDGE & AVAILABILITY OF AMBULATORY BLOOD PRESSURE MONITORING AS A DIAGNOSTIC TEST FOR HYPERTENSION IN CLINICAL PRACTICE
1215-1230	Dean Picone	PREVALENCE OF VALIDATED BLOOD PRESSURE MEASURING DEVICES BEING SOLD BY AMAZON: 12-MONTH PROSPECTIVE ANALYSIS ACROSS 10 COUNTRIES
1230-1250	Alta Schutte	What is the future of blood pressure monitoring?
1250-1350	<b>LUNCH</b>	
Session 10	<b>Chairs: Jonathan Mynard and Bhavisha Bakrania</b>	
1350-1410	Yen Chin Koay	Uncovering metabolic drivers of Heart Failure with Preserved Ejection Fraction (HFpEF)
1410-1510	<b>Oral Free</b>	<b>Renal pathology</b>
1410-1425	Stephen Harrap	EARLY RENIN-ANGIOTENSIN SYSTEM INHIBITION REPROGRAMS RENAL GENOMIC EXPRESSION AND REDUCES RENIN TO PREVENT GENETIC HYPERTENSION IN THE SPONTANEOUSLY HYPERTENSIVE RAT
1425-1440	Michelle Maier	THE REGULATORY EFFECTS OF HYPERTENSION-RELATED CIRCULAR RNA GRB10 IN THE KIDNEY.
1440-1455	Connie Ow	THE EFFECTS OF INHIBITION OF THE SGLT2 CO-TRANSPORTER ON RENAL TISSUE OXYGENATION IN AN OVINE MODEL OF SEPSIS-INDUCED ACUTE KIDNEY INJURY
1455-1510	Sarah Walton	SEX DIFFERENCES IN RENAL INJURY AND AMINOPEPTIDASE EXPRESSION IN ANGIOTENSIN II-INDUCED HYPERTENSION
1510-1520	<b>Close</b>	Markus Schlaich

**Posters for your viewing in Lunch time sessions and breaks**

Poster #	Author	Title
1	Alex Peh	SHORT-CHAIN FATTY ACIDS IMPROVE POST-STROKE RECOVERY IN MICE VIA THEIR METABOLITE-SENSING G-PROTEIN COUPLED RECEPTORS
2	Chudan Xu	THE ROLE OF ORAL L-TYROSINE, METABOLISED BY THE GUT MICROBIOTA INTO P-CRESOL DERIVED METABOLITES, IN BLOOD PRESSURE REGULATION
3	Hericka Bruna Figueiredo Galvao	SINGLE-CELL TRANSCRIPTOMIC CHARACTERISATION OF AORTIC LYMPHOCYTE HETEROGENEITY DURING HYPERTENSION

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4	Yaxing Meng	TRACKING OF BLOOD PRESSURE AND HYPERTENSION FROM CHILDHOOD TO ADULTHOOD
5	Alemayehu Jufar	VALIDATING THE SAFETY OF RECRUITING THE RENAL FUNCTIONAL RESERVE ON RENAL CORTICAL AND MEDULLARY PERFUSION AND OXYGENATION IN CONSCIOUS SHEEP
6	Markus Schlaich	CARDIOVASCULAR RISK REDUCTION AFTER RENAL DENERVATION ACCORDING TO TIME IN THERAPEUTIC SYSTOLIC BLOOD PRESSURE RANGE
7	Audrey Adji	NITROGLYCERIN MEDIATED VASODILATION RESULTS IN AFTERLOAD REDUCTION WITH MAINTAINED CARDIAC OUTPUT IN PATIENTS WITH AORTIC STENOSIS
8	Brian Morris	FOXO3 LONGEVITY GENOTYPE ATTENUATES THE IMPACT OF HYPERTENSION ON RISK OF INTRACEREBRAL HAEMORRHAGE
9	Brian Morris	VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR 1 (FLT1) LONGEVITY VARIANT INCREASES LIFESPAN BY REDUCING MORTALITY RISK POSED BY HYPERTENSION
10	Brian Morris	ASSOCIATION OF HYPERTENSION AND GROWTH DIFFERENTIATION FACTOR 15 WITH INCIDENT CORONARY ARTERY DISEASE
11	James Sharman	THE MENOPAUSAL TRANSITION AND ACCELERATED AORTIC STIFFNESS
13	Vaidehi Desai	THE INTERACTION BETWEEN LARGE ARTERY STIFFNESS AND BARORECEPTOR FUNCTION: A PILOT STUDY
14	Yaxing Meng	BLOOD PRESSURE AT DIFFERENT LIFE-STAGES OVER THE EARLY LIFE-COURSE CONTRIBUTE EQUALLY TO INTIMA-MEDIA THICKNESS: AN INFANCY-ONSET COHORT
15	Rachel Climie	SHORT- AND LONG-TERM IMPACT OF ALLOGENEIC STEM CELL TRANSPLANT ON VASCULAR AGE IN HEMATOLOGICAL CANCER SURVIVORS
16	Jun Yang	HYPERTENSION IN HOSPITAL ADMISSIONS: A MISSED OPPORTUNITY FOR DIAGNOSING PRIMARY ALDOSTERONISM
17	Katie Harris	ETHNIC DIFFERENCES IN RISK FACTORS FOR COGNITIVE DECLINE AND DEMENTIA, IN INDIVIDUALS WITH DIABETES: RESULTS FROM THE ADVANCE TRIAL
18	Maria Jelinic	INTERLEUKIN-18 IS A CRITICAL DRIVER OF ANGIOTENSIN II-INDUCED CARDIAC REMODELLING IN MICE
19	Tan Bui	SEX DIFFERENCES IN AUTOMATED COMPARED WITH MANUAL BLOOD PRESSURE MEASUREMENT
20	Joanne O'Donnell	EXPLORING THE ROLE OF NECROPTOSIS IN HYPERTENSION
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22	Ashenafi Betrie	INVESTIGATION OF THE IMPACT OF ZINC IN VASCULAR PHYSIOLOGY AND PATHOPHYSIOLOGY OF HEART SURGERY-ASSOCIATED ACUTE KIDNEY INJURY
23	Alemayehu Jufar	INFLUENCE OF MODERATE HYPOTHERMIA ON CEREBRAL AND RENAL MICROCIRCULATORY PERFUSION AND OXYGENATION IN OVINE CARDIOPULMONARY BYPASS
24	Suzanne Pears	ACUTE BLOOD PRESSURE RESPONSE TO ANTIHYPERTENSIVES DURING SOUND EXPOSURE IN AN EXPERIMENTAL MODEL OF PREECLAMPSIA
25	Kristyn Whitmore	PATIENT VISUALISATION OF CORONARY ARTERY CALCIUM IMAGES IMPROVES LDL-CHOLESTEROL CONTROL BUT NOT SYSTOLIC BLOOD PRESSURE
26	Roshan Ananda	LIVED EXPERIENCE OF PATIENTS WITH PRIMARY ALDOSTERONISM: AN INTERNATIONAL SURVEY

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27	Gisele Bentley	A QUANTATIVE COMPARISON OF THE BLOOD PRESSURE AND HEART RATE RESPONSE DURING HEAD-UP-TILT TABLE TESTING AND ACTIVE STAND
28	Gisele Bentley	COMPARISON OF HEAD-UP-TILT TABLE TEST TO ACTIVE STAND FOR THE DIAGNOSIS OF ORTHOSTATIC INTOLERANCE: A STRUCTURED LITERATURE REVIEW
29	Hamdi Jama	GUT MICROBIAL METABOLITES, DELIVERED AS A FIBRE SUPPLEMENT, REDUCE BLOOD PRESSURE AND CARDIAC HYPERTROPHY IN AN ANG II HYPERTENSIVE MODEL.
30	Donggyu Rim	THE ASSOCIATION BETWEEN REGIONAL GREY MATTER VOLUME, MEAN BLOOD PRESSURE AND MUSCLE SYMPATHETIC NERVE ACTIVITY IN HYPERTENSIVE HUMANS
31	Aihua Wu	REGULATION OF THE SODIUM CHLORIDE CHANNEL (NCC): HUMAN STUDIES ON THE ROLE OF THE POTASSIUM SWITCH
32	Vimarsha Kodithuwakku	DETERMINANTS OF EARLY VASCULAR AGEING IN EARLY LIFE: A SYSTEMATIC REVIEW
33	Horiofumi Tomiyama	LONGITUDINAL CONSTANCY OF VASCULAR AGEING PHENOTYPES IN MIDDLE-AGED JAPANESE EMPLOYEES