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Australian  
**Atherosclerosis**  
Society Inc.

**Annual Scientific Meeting**



## Program at a glance

### Wednesday 23<sup>rd</sup> October

0900 – 1000	Registration opens
1000 – 1130	SCOLAR PROGRAM
1130 – 1245	ECR Lunch with Experts
1300 – 1315	President's Welcome
1315 – 1440	Session 1: National Plenary & Lipoproteins in Cardiometabolic Disease
1440 – 1500	Afternoon tea
1500 – 1605	Session 2: Mechanisms of Disease – Endothelial Cells & Efferocytosis
1605 – 1730	Welcome Drinks

### Thursday 24<sup>th</sup> October

0900 – 1030	Session 3: International Plenary & Mechanisms of Disease
1030 – 1045	Morning tea
1045 – 1215	Session 4: HDR Rising Star Finalists
1215 – 1315	Lunch
1315 – 1500	Session 5: Novel Approaches in Atherosclerosis
1500 – 1515	Afternoon tea
1515 – 1650	Session 6: International Plenaries & Clinical Cardiometabolic Complications
1700 – 1745	Annual General Meeting
1900 – 2100	ASM Dinner – 50 <sup>th</sup> Anniversary Celebrations

### Friday 25<sup>th</sup> October

0900 – 1030	Session 7: National Plenary & ECR Rising Star Awards
1030 – 1045	Morning tea
1045 – 1215	AAS Presidents' Panel Atherosclerosis Research in Australia: Past, Present and Future
1215 – 1230	Presentation of Rising Star Awards and Meeting Close

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## Program details

Wednesday 23 <sup>rd</sup> October			
SCOLAR PROGRAM:			
1000	<b>S1</b>	Genomics in translation of clinical heart disease	Prof Muredach P. Reilly
1020	<b>S2</b>	Diabetic cardiovascular complications	Prof. Rebecca Ritchie
1040	<b>S3</b>	Targeting atherosclerosis with RNA therapy	Prof. Merlin Thomas
1100 – 1130	Panel Discussion		
1130 – 1245	Lunch with Experts (registration required)		
Session 1: National Plenary & Lipoproteins in Cardiometabolic Disease			
1300		President's Welcome	Prof. Judy de Haan
1315	<b>1</b>	<b>National Plenary #1:</b> Current and future therapeutic options for reducing cardiometabolic disease	Prof. Kerry-Anne Rye
1345	<b>2</b>	HDL functionality as a biomarker for risk of coronary artery disease and diabetes in Indigenous Australians	Dr. Joanne Tan
1400	<b>3</b>	HDL remodelling and enrichment with apoCIII and apoE in Indigenous Australians	Dr. Maaïke Kockx
1415	<b>4</b>	Cardiovascular events in patients with diabetes-related foot ulcers: does inflammation and infection drive adverse outcomes?	Dr. Nick Si Rui Lan
1430	<b>5</b>	Enhancing anti-inflammatory stimuli to prevent atherosclerosis progression through macrophage-specific RIPK1	Mr. Han Xu
1435	<b>6</b>	Current understanding of lipoprotein (a) and its impact on peripheral vascular disease: A narrative literature review	Dr. Amirul Hakim Ahmad Bazlee
1440	Afternoon tea		
Session 2: Mechanisms of Disease - Endothelial Cells & Efferocytosis			
1500	<b>7</b>	Females exhibit greater mitochondrial endothelial dysfunction, impairing vascular healing in diabetes-associated peripheral artery disease	A/Prof. Mary Kavurma
1515	<b>8</b>	The generation of stable microvessels in ischaemia is mediated by endothelial cell derived TRAIL	Dr. Siân Cartland
1530	<b>9</b>	Death out of balance: a computational study of cell death and defective efferocytosis in atherosclerotic plaque tissue	Dr. Ishraq Ahmed
1545	<b>10</b>	Examining the role of vascular endothelial cells in efferocytosis	Dr. Amy Baxter
	<b>11</b>	<i>Abstract withdrawn</i>	
1600	<b>12</b>	Hypoxia-Responsive Nanoparticle Mediated Delivery of the AntimiR-181c to Reverse Diabetes-Impaired Angiogenesis	Dr. Joanne Tan
	<b>13</b>	<i>Abstract withdrawn</i>	
1605	Welcome Drinks		

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## Thursday 24<sup>th</sup> October

### Session 3: International Plenary & Mechanisms of Disease

0900	<b>14</b>	<b>International Plenary #1 (AAS Sponsored):</b> Genomics Drives Novel Concepts in Atherosclerotic Cardiovascular Diseases	Prof. Muredach P. Reilly
0945	<b>15</b>	Genetic and biochemical association of the SLC22A3 transporter with Lp(a) levels and uptake in liver cells	Prof. Sally McCormick
1000	<b>16</b>	The inflammatory profile of human monocyte-derived macrophages is associated with blood lipid levels	Dr. Heather Medbury
1015	<b>17</b>	Gene expression profiling of myocardial ischaemic preconditioning and myocardial stunning	Dr. Waheed Khan
1030	Morning Tea		

### Session 4: HDR Rising Star Awards

1045	<b>18</b>	Selectively targeting the Gasdermin-D pore attenuates cardiac inflammation and fibrosis after ischemia reperfusion injury	Ms. Judy Choi
1100	<b>19</b>	Understanding the cellular and transcriptomic landscape of diabetes-associated peripheral artery disease by single-cell RNA sequencing	Ms. Elaina Kelland
1115	<b>20</b>	Modulation of Endothelial-To-Mesenchymal Transition by an Epigenetic Drug GSK-126 attenuates Diabetes Associated Atherosclerosis	Ms. Misbah Aziz
1130	<b>21</b>	Therapeutic Akkermansia muciniphila Supplementation to Enhance Atherosclerotic Plaques Stability in the Tandem Stenosis Mouse Model	Ms. Marziyeh Anari
1145	<b>22</b>	Atheroprotective Effects of GLP-1 Delivered by DNA Minicircle	Mr. Gardner Robinson
1200	<b>23</b>	A novel immunometabolic therapy for diabetic cardiovascular complications	Mrs. Parvin Yavari
1215	Lunch		

### Session 5: Novel Approaches in Atherosclerosis

1315	<b>24</b>	Mechanotransduction in Immune Cells: The Hidden Driver in Aortic Stenosis	A/Prof. Sara Baratchi
1330	<b>25</b>	Resolving inflammation by targeting FPR2 protects against diabetes associated atherosclerosis	Ms. Yvonne Zhang
1345	<b>26</b>	Lipoxin mediates resolution of diabetes-associated atherosclerosis (DAA) in ApoE <sup>-/-</sup> diabetic mice via a direct effect on perivascular adipose tissue (PVAT)	Mr. Ramtin Radman
1400	<b>27</b>	Development of a 3D-Printed Tandem Stenosis Model for Consistent Induction of Plaque Instability in ApoE <sup>-/-</sup> Mice	Dr. Yung-Chih (Ben) Chen
1415	<b>28</b>	Trimethylamine-N-Oxide's Role in Atherosclerotic Plaque Stability: Insights from Fluoromethylcholine Studies in a Tandem Stenosis Mouse Model	Ms. Yi Hua
1430	<b>29</b>	In situ measurement of live human plaque permeability and cell infiltration using spectral photon counting CT imaging	A/Prof. Steven Giese
1445	<b>30</b>	The utility of Computed Tomography Coronary Angiography for predicting major adverse cardiac events in patients undergoing investigation for chest pain: a single-centre study	Mr. Thomas Faulder
1450	<b>31</b>	A new mathematical model for plaque growth	Prof. Mary Myerscough
1455	<b>32</b>	A mathematical model for the role of smooth muscle cells phenotype switching in atherosclerotic plaques	Dr. Joseph Ndenda
1500	Afternoon Tea		

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## Thursday 24<sup>th</sup> October

### Session 6: International Plenaries & Clinical Cardiometabolic Complications

1515	<b>33</b>	<b>International Plenary #2 (AAS &amp; KSoLA Partnership):</b> Pathogenic role of senescent T cells in cardiovascular disease	Prof. Jong-Chan Youn
1540	<b>34</b>	Triglycerides contribute to the pro-inflammatory actions of neutrophil extracellular traps	Dr. Blake Cochran
1555	Mini break – Zoom setup		
1600	<b>35</b>	<b>International Plenary #3 (AAS &amp; EAS Partnership):</b> Obesity & cardiovascular disease risk	Prof. Marianne Benn
1630	<b>36</b>	Elevated lipoprotein(a) and familial hypercholesterolaemia in the coronary care unit at Sir Charles Gairdner Hospital	Dr. Julian Atlas
1645	<b>37</b>	Low-density lipoprotein cholesterol estimation in youth: Sampson equation superior in predicting mid-adult carotid plaque	Dr. Yaxing Meng
1650	Mini break		
1700	Annual General Meeting		
1900	ASM Dinner – 50 <sup>th</sup> Anniversary Celebrations		

## Friday 25<sup>th</sup> October

### Session 7: National Plenary & ECR Rising Star Awards

0900	<b>38</b>	<b>National Plenary #2:</b> "From fundamental discovery to clinical practice: targeting old and new players in vascular disease"	A/Prof. Peter Psaltis
0930	<b>39</b>	The functionality of high-density lipoproteins is impaired in patients with diabetes that have undergone toe amputations	Dr. Emma Solly
0945	<b>40</b>	Diabetes induces TET2 dysfunction in bone marrow haematopoietic stem cells and accelerates DNMT3A R878H/+ clonal haematopoiesis in mice	Dr. Dragana Dragoljevic
1000	<b>41</b>	Differential gene expression patterns during apoptotic and necroptotic cell clearance by primary macrophages	Dr. Narmadaa Thyagarajan
1015	<b>42</b>	PCSK9 AAV delivery to induce hypercholesterolemia in the tandem stenosis mouse model of plaque instability	Dr. Jordyn Thomas
1030	Morning Tea		
<b>AAS Presidents' Panel</b>			
<b>Atherosclerosis Research in Australia: Past, Present and Future</b>			
1045 – 1215	Chaired by current AAS President, Prof. Judy de Haan, this final panel brings together founding member Prof. Paul Nestel & 6 AAS past presidents: Prof. Kerry-Anne Rye, Prof. Richard O'Brien, Prof. Gerald Watts, Prof. David Sullivan, A/Prof. Christina Bursill & A/Prof. Peter Psaltis who will share their thoughts on the past, present and future of atherosclerosis research in Australia.		
1215 – 1230	Presentation of Rising Star Awards and Meeting Close		