



Australian & New Zealand
Microcirculation Society



AUSTRALIAN VASCULAR
BIOLOGY SOCIETY



*Asia/Australia
Vascular Biology*

Inaugural Joint Scientific Meeting of

AVBS | ANZMS | AAVBM

Australian Vascular Biology Society

Australia New Zealand Microcirculation Society

Asia Australia Vascular Biology Meeting

19 – 22 September 2019

Sydney AUSTRALIA

Thursday September 19

WCI 2019 Joint Plenary Sessions

The meeting will commence with a joint session co-hosted with [WCI](#).

ICC Sydney is easily accessible by public transport, including light rail, ferry and train and is only a 10-minute walk from Central and Town Hall train stations. Secure parking is available and conveniently located within the Darling Harbour precinct. For further information, visit the [ICC Sydney website](#).



07:30 – 09:00 Registration

09:30 – 10:15 **Plenary 5**
Vishva Dixit

10:15 – 11:00 **Plenary 5**
Elaine Holmes

11:00 – 11:30 Morning Tea

11:30 – 12:15 **Plenary 6**
Joint WCI/Vascular Biology Session
Ken Walsh

12:15 – 13:00 **Plenary 6**
Paul Kubes

13:00 – 13:30 Presentation of Awards and Closing Ceremony

13:30 – 15:00
→ **Transfer from ICC to
Holme Building, Science Road
University of Sydney NSW 2006**

Thursday September 19

University of Sydney, Holme Building

15:00 – 15:30 Registration

15:30 – 15:45 Welcome to AAVBM/AVBS/ANZMS Joint Meeting

AVBS/ANZMS – Society Presidents Natasha Harvey and Georges Grau
AAVBM meeting coordinators – Natasha Harvey, Simone Schoenwaelder and Ben Hogan

15:45 – 17:25 Session 1: Building the vasculature

AAVBM/AVBS/ANZMS Joint Session

Chairs: Natasha Harvey and Tetsuro Watabe

- 15:45 Naoki Mochizuki *Japan*, “Cloche-independent blood vessel formation in zebrafish”
- 16:05 Injune Kim *Korea*, “Hypertension-induced retinal edema via endothelial transcytosis”
- 16:25 Li-Kun Phng *Japan*, “Shaping the vasculature – a balance of endothelial cell biomechanics and haemodynamic force”
- 16:45 Jono Astin *New Zealand*
- 17:05 Yoshiaki Kubota *Japan*, “Cellular and molecular basis of the neurovascular link”

17:30 – 18:00 ECR Session 1: Short talks selected from abstracts

6 x 5 minute talks selected from the most outstanding abstracts; students and postdocs.

18:00 – 18:30 Plenary 1

Chair: Georges Grau

Jenny Gamble *Australia* – Endothelium and aging

18:30 – 22:00 Posters and discussion and BBQ dinner (Drawing Room/Colonnade and Terrace)

Friday September 20

09.00 – 10.45 Session 2: Lymphangiogenesis

AAVBM/AVBS/ANZMS Joint Session

Chairs: Tara Karnezis and Naoki Mochizuki

- 09:00 Mathias Francois *Australia*, “Molecular mode of action of the dominant-negative SOX18 transcription factor: aetiology of a rare lymphatic vascular disorder”
- 09:20 Tetsuro Watabe *Japan*, TBA
- 09:40 Tara Karnezis *Australia* “Understanding the effects of cancer therapies on the lymphatic vasculature”
- 10:00 Masanori Hirashima *Japan*, “Blood-lymph partitioning in mouse embryonic skin”
- 10:20 Natalie Trevaskis *Australia*, “Mesenteric lymphatic dysfunction in obesity promotes insulin resistance”

10:45 – 11:15 Coffee break

11:15 – 13:00 Session 3: Angiogenesis

AAVBM/AVBS/ANZMS Joint Session

Chairs: Emma Gordon and Ho Jeong Kwon

- 11:15 Young Guen Kwon *Korea*, TBA
- 11:35 Xuri Li *China*, “PDGF-C and PDGF-D in angiogenesis”
- 11:55 Christina Bursill *Australia*, TBA
- 12:15 Goo Taeg Oh *Korea*, “Vascular and Immune Cell Network in the Pathogenesis of Atherosclerosis”
- 12:35 Kyoko Hida *Japan*, “Roles of tumor endothelial cells in tumor progression”

13:00 – 14:00 Lunch break

AAVBM AGM meeting (Chancellors Room)

ANZMS AGM (Refectory)

14:00 – 15:40 Session 4: Inflammation and the vasculature

AAVBM/AVBS/ANZMS Joint Session

Chairs: Mary Kavurma and Jin Han

- 14:00 Connie Wong *Australia*, “Host response to stroke: a focus on inflammaging”
- 14:20 Veronique Angeli *Singapore*, “Role of Resident Arterial LYVE-1+ Macrophages in Vascular Homeostasis and Disease”
- 14:40 Hironori Nakagami *Japan*, “Development of therapeutic vaccines for cardiovascular and metabolic diseases”
- 15:00 Michael Hickey *Australia*, “Monocyte subset contributions to glomerular inflammation”
- 15:20 Masayuki Yoshida *Japan*, TBA

15:40 – 16:10 Coffee break

16:00 – 17:40 Session 5: Stem Cells and the vasculature

AAVBM/AVBS/ANZMS Joint Session

Chairs: Claudine Bonder and Masayuki Yoshida

- 16:00 Susan Nilsson *Australia*, TBA
- 16:20 Yoo Wook Kwon *Korea*, “Cell fate conversion and its application”
- 16:40 Jaeho Kim *Korea*, “Therapy of Ischemic Diseases using Human Induced Pluripotent Stem Cells”
- 17:00 Andrew Murphy *Australia*, “Altering the bone marrow microenvironment to promote haematopoietic stem cell mobilisation”
- 17:20 Samir Taoudi *Australia*, TBA

17:45 – 18:45 Plenaries 2 and 3

Chairs: Michael Hickey and Natalie Trevaskis

Paul Kubes *Canada* – Immunology of microcirculation

Nobuyuki Takakura *Japan*

Saturday September 21

09:00 – 10:45 Session 6: Diabetes and the vasculature

AVBS/ANZMS Joint Session

Chairs: Shane Thomas and John O’Sullivan

- 09:00 Emad M El-Omar, “Latest updates on the microbiome”

- 09:20 Tim Murphy, "Endothelial function in small arteries from women with gestational diabetes"
- 09:40 James McFadyen, "Diabetes, platelets and thrombosis - an unholy trinity"
- 10:00 Dino Premilovac, "Microvascular insulin resistance in skeletal muscle"
- Selected from Abstracts x 2

10:45 – 11:15 Coffee break

11:15 – 12:45 **Session 7: Mechanosensing in the blood and vasculature/devices**

AVBS/ANZMS Joint Session

Chairs: Arnold Ju and Zhiyong Li

- 11:15 Alpha Yap, "Mechanisms of mechanotransduction at cadherin cell-cell junctions"
- 11:35 Charles Cox, TBA
- 11:55 Sara Baratchi, "Mechanotransduction in monocytes and consequences for inflammation"
- Selected from Abstracts x 2

12:45 – 13:45 Lunch break

Lunch workshop for ECR grant funding (Chancellors room)

AVBS AGM (Refectory)

13:45 – 15:15 **Session 8: Atherothrombosis and thrombo-inflammation**

AVBS/ANZMS Joint Session

Chairs: Simone Schoenwaelder and Elizabeth Gardiner

- 13:45 Freda Passam, TBA
- 14:05 Elizabeth Gardiner, "Regulation of platelet redox by platelet receptors"
- 14:25 Mike Wu, "Tricky play of dying endothelium with red blood cells and platelets"
- Selected from Abstracts x 2

15:15 – 15:45 Coffee break

15:45 – 17:15 **Session 9: Cerebrovascular biology and disease**

AVBS/ANZMS Joint Session

Chairs: Shaun Sandow and Grant Drummond

- 15:45 Simon Hawke, "Trans-endothelial migration of leucocytes from patients with Multiple Sclerosis under immunomodulation"
- 16:05 Felix Marsh, "Circulating immune cells in multiple sclerosis"
- 16:25 Rebecca Lim, "Allogeneic cell therapy for ischaemic stroke - from preclinical discovery to clinical translation"
- Selected from Abstracts x 2

17:15 – 18:45 Session 10: Microvasculature adaptations (in pregnancy and perinatal outcomes)

AVBS/ANZMS Joint Session

Chairs: Sarah Marshall and Laura Parry

- 17:15 Sarah Marshall, "Targeting the vascular dysfunction of preeclampsia"
- 17:35 Ian Wright, TBA
- 17:55 Rebecca Dyson, "Girls Rule: The "female advantage" following preterm birth and the role of antenatal glucocorticoids in the programming of early- and long-term (cardio)vascular adaptations"
- Selected from Abstracts x 2

Sunday September 22

09:00 – 10:30 Session 11: Vascular Remodelling and mechanisms (smooth muscle/endothelium/nerves)

AVBS/ANZMS Joint Session

Chairs: Marianne Tare and David Wilson

- 09:00 Ashish Misra, TBA
- 09:20 Maria Jelinic, "Endothelial dysfunction and reduced compliance in Schlager hypertensive (BPH/2J) mice"
- 09:30 Chen Leo, TBA
- 09:40 Yugeesh Lankadeva, "Dexmedetomidine reduces noradrenaline requirements and preserves renal macro-

and micro-circulatory perfusion, oxygenation and kidney function in ovine septic acute kidney injury”

Selected from Abstracts x 1

10:30 – 11:00	Coffee break
11:00 – 12:30	Session 12: The tumour vasculature AVBS/ANZMS Joint Session Chairs: Ruth Ganss and Sian Cartland
11:00	Ruth Ganss, “Vascular Remodelling and Anti-Cancer Therapy”
11:30	Claudine Bonder, TBA
11:40	Elham Beheshti, TBA
12:00 – 13:00	Plenaries 4 and 5 Chairs: Elham Beheshti and Georges Grau Dolores Di Vizio USA – Extracellular vesicles and tumour microenvironment Steven Stacker Australia – TBA
13:00 – 13:15	Awards and closing
13:15 – 13:45	Lunch and departure

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