<p>| Time  | 7:00 | 7:30 | 8:00 | 8:30 | 9:00 | 9:30 | 10:00 | 10:30 | 11:00 | 11:30 | 12:00 | 12:30 | 13:00 | 13:30 | 14:00 | 14:30 | 15:00 | 15:30 | 16:00 | 16:30 | 17:00 | 17:30 | 18:00 | 18:30 | 19:00 |
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| <strong>Rooms</strong> | Exhibition Area | Exhibition Area | Riverside Theatre | Ballroom 1 | Meeting Room 1 | Meeting Room 2 | Meeting Room 3 | Meeting Room 4 | Meeting Room 5 | Meeting Room 6 | Meeting Room 7 |       |      |      |      |      |      |      |      |      |      |      |      |      |
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<th>Time</th>
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<tr>
<td>7:00</td>
<td>Sydney Session Business Breakfast</td>
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<td>7:00</td>
<td>AGDA AGM 2017</td>
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<td>Plenary: Introduction to the Symposium</td>
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<td>ADS &amp; ADEA Joint Symposium: The Future of Diabetic Care Management</td>
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Note: The schedule is tentative and subject to change. Attendees should check the official schedule for updates.
SCIENTIFIC PROGRAM
Wednesday 30th August, 2017

Breakfast Sessions – Concurrent

**Medtronic Breakfast Workshop**
7:00am - 8:00am
Why HbA1c may not be enough: what does the future look like?
Meeting Room 2

**Sanofi Breakfast Workshop**
7:00am - 8:00am
What is the role of PCSK9 Inhibitors in Patients with Diabetes and Cardiovascular Disease?
Meeting Room 4

**Breakfast Meetings**

**ADEA Award Judges Meeting**
7:00am - 8:30am
Meeting Room 12

**ESA-SRB-ADS-ADEA Presidents Breakfast**
7:00am - 8:30am
Meeting Room 11

**ADS & ADEA Welcome**
8:30am - 9:10am
Riverside Theatre
Sophia Zoungas & Giuliana Murfet

**Plenary**

**ADEA Plenary Lecture: Lori Laffel**
9:15am - 9:50am
Riverside Theatre
Chair: Giuliana Murfet
Lori Laffel
Improving Biomedical & Psychosocial Outcomes in Young Persons with Type 1 Diabetes abs# 17

The conference acknowledges the support of MSD

**ADS & ESA Plenary Lecture: Carla Greenbaum**
9:50am - 10:30am
Riverside Theatre
Chair: Peter Colman
Carla Greenbaum
Disease modifying therapy in type 1 diabetes; what an endocrinologist needs to know abs# 18

This conference acknowledges the sponsorship of Sanofi
**Concurrent Sessions**

**ADS Clinical Orals: Epidemiology and diabetes in hospital**
8:30am - 10:30am  
Meeting Room 5

**Chairs:** Jonathan Beilin & Jencia Wong

**8:30 AM**  
Natalie Nanayakkara  
Depression and distress in patients with type 2 diabetes: results from ANDA 2016 abs# 1

**8:45 AM**  
Wendy A Davis  
Anxious depression increases all-cause mortality in type 2 diabetes: The Fremantle Diabetes Study Phase II abs# 2

**9:00 AM**  
Natalie Nanayakkara  
Younger patients with type 2 diabetes have worse self-care practices compared with older patients: results from ANDA 2016 abs# 3

**9:15 AM**  
Crystal MY Lee  
The cost of diabetes and obesity in Australia abs# 4

**9:30 AM**  
Toshiaki Ohkuma  
Cardiac stress and inflammatory markers as predictors of heart failure in patients with type 2 diabetes: the ADVANCE trial abs# 5

**9:45 AM**  
Mikhail Kosiborod  
Lower Rates of Hospitalization for Heart Failure and All-Cause Death in Patients Newly Initiated on SGLT-2 Inhibitors versus other glucose lowering drugs: The CVD-REAL Study abs# 6

**10:00 AM**  
Priscilla Yong  
Diabetes and higher HbA1c are associated with adverse outcomes following surgery abs# 7

**10:15 AM**  
Mervyn Kyi  
Identifying hospitalised patients at risk of adverse glycaemia: a risk stratification model abs# 8

**ADS Basic Orals: Insulin Action**
8:30am - 10:30am  
Meeting Room 2

**Chairs:** Nigel Turner & Kim Bell-Anderson

**8:30 AM**  
John Wentworth  
Interferon-gamma released from omental adipose tissue of insulin-resistant humans alters adipocyte phenotype and impairs response to insulin and adiponectin release abs# 9

**8:45 AM**  
Magdalene K Montgomery  
SMOC1 – A new therapeutic target for glycaemic control? abs# 10

**9:00 AM**  
Chrysovalantou E. Xirouchaki  
Muscle-specific NOX4 deficiency impairs glucose metabolism and mitochondrial function abs# 11

**9:15 AM**  
Garron T Dodd  
A hypothalamic phosphatase switch coordinates white adipose tissue browning with feeding abs# 12

**9:30 AM**  
Clinton R Bruce  
The effect of ingested glucose dose on the suppression of endogenous glucose production in humans. abs# 13

**9:45 AM**  
Carsten Schmitz-Peiffer  
Indirect effects of Protein Kinase C epsilon in high fat diet-induced insulin resistance: crosstalk between adipose tissue and liver abs# 14

**10:00 AM**  
Nicola Ferreira  
Adult-onset obesity and insulin resistance is triggered by impaired mitochondrial biogenesis abs# 15

**10:15 AM**  
Emily J King  
Improving skeletal muscle mitochondrial turnover to combat insulin resistance abs# 16

**ADS & ADEA Morning Tea**
10:30am - 11:00am  
Exhibition Hall
Concurrent Sessions

ADEA Symposium: Diabetes peer support in Australia: the experience, the evidence and a roadmap for future service provision
11:00am - 1:00pm
Riverside Theatre
Chair: Jessica L Browne
11:00 AM
Jessica L Browne & Jane Speight
Diabetes peer support in Australia: the experience, the evidence and a roadmap for future service provision abs# 19

This conference acknowledges the sponsorship Roche

ADS & ESA Joint Symposium: Cancer and Metabolism
11:00am - 1:00pm
Bellevue Ballroom 2
Chairs: Renea Taylor & Peter Leedman
11:00 AM
Daniel Galvão
Exercise as a synergistic medicine for cancer abs# 20
11:30 AM
Kyle Hoehn
Targeting metabolic vulnerabilities in obesity-related cancers abs# 21
12:00 PM
Matthew Watt
Manipulating lipid metabolism as a treatment for prostate cancer abs# 22
12:30 PM
Sean McGee
Common mechanisms of metabolic reprogramming in diabetes and breast cancer abs# 23

ADS NADC Symposium
11:00am - 1:00pm
Meeting Room 1
Chair: Sophia Zoungas
11:00 AM
Natalie Wischer
NADC activities leading to better diabetes services abs# 24
11:30 AM
Anthony Pease
The Australian National Diabetes Audit (ANDA): Lessons from the 2016 Australian Quality Self-Management Audit abs# 25
11:45 AM
Sophia Zoungas / Eleanor Danek
ANDA’s 2017 and beyond abs# 26
12:00 PM
Richa Tayal
PHN & Diabetes Pathways abs# 27
12:20 PM
Chris Kane
Health care homes funding model and diabetes abs# 28

This conference acknowledges the sponsorship Sanofi

ADS Clinical Orals: Type 1 diabetes
11:00am - 1:00pm
Meeting Room 2
Chairs: Jane Holmes-Walker & Seng Khee Gan
11:00 AM
Glenn M Ward
Delay in insulin secretion following an oral glucose load after islet transplantation in human type diabetes abs# 29
11:15 AM
Elizabeth Holmes-Truscott
Sustained improvement in diabetes-specific quality of life in adults with long-standing type 1 diabetes and problematic hypoglycaemia: 2-year results from the HypoCOMPaSS study abs# 30
11:30 AM
Sultan Linjawi
Day-to-day variability of fasting self-measured blood glucose (SMBG) correlates with risk of hypoglycaemia in adults with type 1 (T1D) and type 2 diabetes (T2D) abs# 31
11:45 AM  Roger Chen
Within-day variability based on 9-point profiles correlates with risk of overall and nocturnal hypoglycaemia in adults with type 1 (T1D) and type 2 diabetes (T2D) abs# 32

12:00 PM  Alicia Jenkins
Corneal confocal microscopy assessed nerve structure in Type 1 diabetes adults correlates with non invasive measures of tissue health (skin autofluorescence and retinal vessel calibres) abs# 33

12:15 PM  Josephine M Forbes
Mitochondrial dysfunction defines a population of young people with type 1 diabetes at risk of kidney disease abs# 34

12:30 PM  Amy Harding
Predictors of mortality in Australians with type 1 diabetes abs# 35

12:45 PM  Melissa J Simonds
Trends in Body Mass Index at Type 1 Diabetes diagnosis in Western Australia from 1999-2012 and its impact on glycaemic control. abs# 36

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**ADS Basic Orals: Complications**

11:00am - 1:00pm

**Meeting Room 3**

Chairs: Brian Drew & Melinda Coughlan

11:00 AM  Simon T Bond
The E3 ubiquitin ligase MARCH5 is a PPARγ target gene that regulates mitochondrial function in white adipocytes abs# 37

11:15 AM  Vance Matthews
Role of the sympathetic nervous system in regulation of the sodium glucose co-transporter 2. abs# 38

11:30 AM  Pierre Scotney
Reducing VEGF-B signalling ameliorates renal lipotoxicity and protects against diabetic kidney disease abs# 39

11:45 AM  Anh Tao
Differences in matrix synthetic and degradative pathways may contribute to differences in susceptibility to development of renal changes in BALB/c and C57BL/6 mice. abs# 40

12:00 PM  Anna MD Watson
Diabetes and hypertension differentially affect renal reactive oxygen species and catecholamine content abs# 41

12:15 PM  Niloufar Torkamani
Three dimensional glomerular reconstruction: A novel approach to evaluate renal microanatomy in diabetic kidney disease abs# 42

12:30 PM  Carla Cannizzo
Expression of miR-146a and miR-378a in wound fluid: A possible biomarker for poor wound healing in diabetes abs# 43

12:45 PM  Ricky R Lareu
Statin therapy causes gut dysbiosis in mice abs# 44

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**ADEA Clinical Practice Meeting**

12:00pm - 1:00pm

**Meeting Room 11**

**ADS & ADEA Lunch**

1:00pm - 2:00pm

**Exhibition Hall**

*The conference acknowledges the support of Novartis*

**Lunchtime Meetings:**

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**ADS Meet the Expert: Andrew Hattersley**

1:15pm - 2:00pm

Chair: Timothy Davis

1:15 PM  Andrew Hattersley
Getting the diagnosis right in the diabetes clinic abs# 45
ADS Bioscientifica Symposium Practical Publishing Advice
1:30PM - 3:00PM
Chair: Sof Andrikopoulos

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker Name</th>
<th>Title</th>
<th>Editorial Role</th>
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<tr>
<td>1:30PM</td>
<td>Sof Andrikopoulos</td>
<td>Introduction</td>
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<td>1:35PM</td>
<td>Karen Chapman</td>
<td>The Peer Review Process</td>
<td>Journal of Endocrinology/Journal of Molecular Endocrinology – Associate Editor</td>
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<td>1:45PM</td>
<td>Tim Cole</td>
<td>Responding to Reviewers’ Comments</td>
<td>Journal of Endocrinology/Journal of Molecular Endocrinology – Associate Editor</td>
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<td>Stefan Bagheri-Fam</td>
<td>The Post Doc Perspective</td>
<td>Reproduction – Post Doc &amp; journal-based learning</td>
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<td>Ken Ho</td>
<td>Publishing ethics</td>
<td>European Journal of Endocrinology – Associate Editor</td>
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<td>2:15PM</td>
<td>Jerry Greenfield</td>
<td>Open access</td>
<td>Endocrinology, Diabetes &amp; Metabolism Case Reports – Editor-in-Chief</td>
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<td>2:25PM</td>
<td>Gail Risbridger</td>
<td>Increasing the impact of your work</td>
<td>Endocrine Connections – Senior Editor</td>
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<td>Panel</td>
<td>Questions and discussion</td>
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Plenary

ADS Plenary Lecture: David Cherney
2:00pm - 3:00pm  Bellevue Ballroom 2
Chair: Sophia Zoungas
2:00 PM  David Cherney
Antihyperglycemic agents and cardiorenal protection abs# 46

The conference acknowledges the support of Boehringer Ingelheim + Eli Lilly

Adea Meet the Expert: Lori Laffel MD MPH
2:00pm - 3:00pm  Meeting Room 6
Chair: Kirstine Bell
2:00 PM  Lori Laffel
Transitions in Care for Emerging Adults with Type 1 Diabetes abs# 47

Concurrent Sessions

Adea Insulin Adjustment Orals
2:00pm - 3:30pm  Meeting Room 5
Chair: Wendy Bryant
2:00 PM  Marisa Nastasi
FlexIT Training for Health Professionals: One year on, a National Perspective abs# 48
2:15 PM  Penny E Morris
Ambulatory insulin dose adjustment clinic redesign project abs# 49
2:30 PM  Marlene Payk
Supporting people with type 1 diabetes on insulin pump therapy abs# 50
2:45 PM  Joanne E Taylor
Comprehensive sequential diabetes prevalence surveys amongst inpatients at St Vincent’s Hospital Sydney abs# 51

3:00 PM  Katherine A Worton
Glycaemic outcomes of nurse led insulin dose adjustment clinic abs# 52

ADS Basic Poster Discussions & Viewing
2:00pm - 3:00pm  Exhibition Hall
Please see poster listing for all presenters

The conference acknowledges the support of Roche Diabetes Care
ADEA Poster Viewing
2:00pm - 3:00pm
Exhibition Hall
Please see poster listing for all presenters

The conference acknowledges the support of Roche Diabetes Care

ADS & ADEA Afternoon Tea
3:00pm - 3:30pm
Exhibition Hall

The conference acknowledges the support of Abbott

Afternoon Meetings:

ADEA Branch Executive Meeting
3:00pm - 4:00pm
Meeting Room 11

Concurrent Sessions

ADEA Workshop: What Does Person Centred Care Really Look Like in Practice (and what it doesn't)
3:30pm - 5:30pm
Meeting Room 7
Cat 2
Chair: Sophie McGough
3:30 PM
Timothy Skinner
What Does Person Centred Care Really Look Like in Practice (and what it doesn't)? abs# 53

ADS Chinese Symposium
3:30PM - 5:30PM
Meeting Room 8
Chairs: Sof Andrikopoulous & Zhangrong Xu
3:30 PM
Bin Lu
Diagnosis and Treatment of Painful Diabetic Neuropathy abs# 54
3:50 PM
Yan Bi
Alteration of olfactory network in type 2 diabetes abs# 55
4:10 PM
Xiaohong Wu
Current state of Diabetic Ketoacidosis in China: Still an issue of concern abs# 56
4:30 PM
Miao Yu
Clinical features and molecular genetics of Beta-cell related monogenic diabetes abs# 57
4:50 PM
Yanbing Li
Optimization of short-term intensive insulin treatment in patients with type 2 diabetes mellitus abs# 58

ADEA Symposium: Intermittent energy restriction: friend or foe for diabetes, obesity and cardiometabolic disease management
3:30pm - 5:30pm
Riverside Theatre
Cat 1
Chair: Amanda Salis
2:00 PM
Nuala Byrne(presenting via Skype), Leonie Heilbronn and Jencia Wong
Intermittent energy restriction: friend or foe for diabetes and cardiometabolic disease management? abs# 59

ADS President’s Clinical Young Investigator Award
3:30pm - 5:30pm
Bellevue Ballroom 2
Chairs: Sophia Zoungas & Louise Maple-Brown
Aya Mousa
Vitamin D deficiency in early pregnancy is associated with increased cardiometabolic risk and gestational diabetes abs# 60

Dinesh Mahendran
Prevalence of pre-existing dysglycaemia among inpatients with acute coronary syndrome and associations with outcomes. abs# 61

Jocelyn J Drinkwater
Determinants of incident intraocular lens implantation in type 2 diabetes: The Fremantle Diabetes Study Phase 2 abs# 62

Timothy Middleton
Microvascular complications in type 2 diabetes: increased retinopathy in the young adult onset subgroup abs# 63

Clement Lo
Patient-centred factors associated with poor glycaemic and blood pressure control in co-morbid diabetes and chronic kidney disease. abs# 64

Sara Baqar
Can salt supplementation alter sympathetic nervous system activity and endothelial function in people with Type Two Diabetes? abs# 65

Mervyn Kyi
A Randomised trial of a Proactive Inpatient Diabetes Service (RAPIDS) demonstrates decreased adverse glycaemia and hospital-acquired infections abs# 66

Melissa H Lee
Mortality amongst people with severe unstable type 1 diabetes referred for islet cell transplantation abs# 67

### ADS Basic Symposium: Liver and Metabolic Disorder

3:30pm - 5:30pm
Meeting Room 5

Chairs: Matthew Watt & Anna Calkin

3:30 PM
Domenico Accili
A new approach to hepatic insulin sensitizers abs# 68

4:00 PM
Tony Tiganis
PTPs & STATs in obesity & liver disease abs# 69

4:30 PM
Victoria Cogger
The role of the liver microcirculation in insulin metabolism abs# 70

5:00 PM
Andrew J Murphy
Its reticulated: The liver at the heart of atherosclerosis abs# 71

### ADEA Technology Orals

3:30pm - 5:30pm
Meeting Room 4

Chair: Fran Brown

3:30 PM
Jane Payne
Sweet Support: e-learning and support for ward based nursing staff abs# 72

3:48 PM
Rajna Ogrin
Co-creating and piloting a new diabetes foot app for people with diabetes abs# 73

4:06 PM
Amanda AL Lee
Diabetes Telehealth: Bridging gaps in diabetes services in rural Western Australia through innovative technology abs# 74

4:24 PM
Ashley Ng
Evaluating the use of mHealth to support young adults with T1DM during life transitions abs# 75

4:42 PM
Barbie Sawyer
Rural Nurse Practitioner telehealth model Improving access to metropolitan specialist services for children with diabetes abs# 76

5:00 PM
Catherine Finneran
Continuous Glucose Monitoring: A useful tool in diabetes patients with hypoglycaemia? abs# 77

5:18 PM
Timothy C Skinner
Person Centred Diabetes Management Goal Setting Using a Smartphone App: Do people make the "right" choice abs# 78

### ADEA Masterclass: Understanding Flash Glucose Monitoring in the real world
3:30pm - 5:30pm  
Meeting Room 6  
Chair: Michelle Robins  
3:30 PM  
Marg McGill, Bruce Passingham, Neale Cohen  
Understanding Flash Glucose Monitoring in the real world abs# 79

**ADS Skip Martin Early Career Fellowship**  
3:30pm - 3:45pm  
Meeting Room 2  
Chairs: Viviane Delgingaro-Augusto & Melkam Kebede  
3:30 PM  
Mugdha Joglekar  
Molecular biomarkers of diabetes progression abs# 80

**Joint ADS & NPS MedicineWise Interactive Workshop: Type 2 diabetes: what’s next after metformin**  
3:30pm - 5:00pm  
Meeting Room 3  
Facilitators: Natalie Raffoul, Nick Forgione, George Barker & Gerry Fegan  
**Overview:** This workshop will facilitate a case-based peer discussion focussing on glucose management of type 2 diabetes in the context of the Australian Blood Glucose Treatment Algorithm. Discussion of the cases will explore factors influencing the choice of second and third-line blood glucose lowering medicines, the stepwise treatment of diabetes and determining when to escalate therapy as well as identifying the best approach to assess, manage and monitor risk of diabetes complications

**ADS Basic Orals: Islet Beta Cells**  
3:45pm - 5:30pm  
Meeting Room 2  
Chairs: Viviane Delgingaro-Augusto & Melkam Kebede  
3:45 PM  
Wei Ma  
An Arp2/3 complex-mediated contractile actin coat on insulin granules facilitates secretion in beta cells abs# 81  
4:00 PM  
Thinn Thinn Khine  
Physiological levels of IL-1B increase islet amyloid deposition in vitro abs# 82  
4:15 PM  
Tharun B Mysore  
Abrogation of adenosine receptor A1R signalling potentiates VCP746 dependent beta-cell proliferation abs# 83  
4:30 PM  
Sahar Keshvari  
Development of an Interleukin-22 based immunocytokine as a novel therapeutic approach in type 2 diabetes abs# 84  
4:45 PM  
Matthew Waters  
Islet β-cell hyper-responsiveness to nutrient-induced stress may underlie β-cell failure in the NODk mouse abs# 85  
5:00 PM  
Ann M Simpson  
Issues with engineered ex vivo expanded murine mesenchymal stem cells as a cell replacement therapy for type 1 diabetes abs# 86  
5:15 PM  
Kim Loh  
Neuropeptide Y1 receptor antagonism improves islet transplant outcome abs# 87

**ADEA Credentialling Committee Meeting**  
4:00pm - 5:00pm  
Meeting Room 11

**ADS & ADEA Welcome Function**  
5:30pm - 7:00pm  
Exhibition Hall  
*This conference acknowledges the sponsorship of Medtronic*
SCIENTIFIC PROGRAM  
Thursday 31st August, 2017

Breakfast Sessions – Concurrent

Sanofi Breakfast Symposium  
7:00am - 8:00am  
Meeting Room 6
Clinical Effectiveness and Outcome Studies with Real-World Data: The Australian Opportunities

Novo Nordisk Breakfast Symposium  
7:00am - 8:00am  
Meeting Room 1 & 2
The role of modern insulins and technology in the management of Type 1 and Type 2 diabetes: An ever evolving landscape

Boehringer Ingelheim + Eli Lilly Symposium  
7:00am - 8:00am  
Meeting Room 7
Glucose lowering and end organ protection in Diabetes.

Plenary

ADEA Plenary Lecture: Petra Wilson  
8:30am - 9:30am  
Riverside Theatre
Chair: Brett Fenton
9:15 AM  
Petra Wilson
The Power of new technologies in diabetes care - 5 e’s, 2 B’s and a Journey abs# 88

Concurrent Sessions

ADS Clinical Symposium: Complications: Benefits beyond glucose control  
8:30am - 10:30am  
Meeting Room 1 & 2
Chairs: Spiros Fourlanos & Ashley Makepeace
8:30 AM  
David Cherney
Uric acid lowering therapies, physiological mechanisms and clinical trials: the potential for cardiorenal protection in diabetes abs# 89
9:00 AM  
Andrew Symons
The Eye: The Window to Diabetic Pathology abs# 90
9:30 AM  
Alicia Jenkins
Cardiovascular disease and lipids abs# 91
10:00 AM  
Elif I. Ekinci
Recent advances in our understanding and management of diabetic kidney disease abs# 92

This conference acknowledges the sponsorship of Boehringer Ingelheim

ADS & APEG Joint Symposium: Youth-onset type 2 diabetes  
8:30am - 10:30am  
Meeting Room 7
Chairs: Liz Davis & Louise Maple-Brown
8:30 AM  
Aveni Haynes
Youth-onset type 2 diabetes: increasing incidence and high prevalence of complications at diagnosis abs# 93
9:00 AM  
Dana Dabelea
Developmental overnutrition and pediatric obesity and type 2 diabetes abs# 94
9:30 AM  
Rae-Chi Huang
Epigenetics of Childhood Obesity and Diabetes Risk abs# 95
10:00 AM  
Sandra Eades
Systems based approaches to diabetes and adolescent health in Aboriginal communities abs# 96

**ADS Pincus Taft Young Investigators Award Session**

**Meeting Room 4 & 5**  
Chairs: Josephine Forbes & Ross Laybutt

**8:30 AM**  
**Viktoria Ntouma**  
Liver-Specific deletion of UBL-5 associated mitochondrial stress is associated with liver failure that is improved by ACE2 expression or pioglitazone administration abs# 97

**8:45 AM**  
**Marin E. Healy**  
Understanding AMPK regulation of exercise adaptation and metabolism abs# 98

**9:00 AM**  
**Hanah Rodriguez**  
Genetic deletion of the Set7 lysine methyltransferase attenuates renal damage in a mouse model of diabetic nephropathy abs# 99

**9:15 AM**  
**Christian Haralambous**  
Deletion of the mitochondrial stress gene UBL-5 results in pancreatic β-cell dysfunction/death and diabetes in mice abs# 100

**9:30 AM**  
**Wan Jun Gan**  
Control of insulin secretion by integrin-basement membrane protein interactions abs# 101

**9:45 AM**  
**Jay Jha**  
Role of NADPH-Oxidase NOX5 in Human Diabetic Nephropathy abs# 102

**10:00 AM**  
**Jibrann A Wall**  
Impact of dietary carbohydrate composition on metabolic benefits of low protein-high carbohydrate diets. abs# 103

**10:15 AM**  
**Amelia K Fotheringham**  
Using the geometric framework to explore the longitudinal effects of dietary macronutrient consumption on markers of diabetic kidney disease abs# 104

**ADS Clinical Orals: Type 2 Diabetes Therapies**

**Meeting Room 6**  
Chairs: Stephen Stranks & Samantha Hocking

**8:30 AM**  
**Timothy ME Davis**  
Temporal changes in glycaemic thresholds for treatment intensification in type 2 diabetes: The Fremantle Diabetes Study abs# 105

**8:45 AM**  
**Gregory Fulcher**  
SWITCH 2: reduced hypoglycaemia with insulin degludec vs. insulin glargine, both U100, in patients with type 2 diabetes at high risk of hypoglycaemia – a randomised, double-blind, crossover trial abs# 106

**9:00 AM**  
**Sultan Linjawi**  
Achieving fasting plasma glucose (FPG) target without hypoglycaemia: a meta-analysis of insulin degludec versus insulin glargine abs# 107

**9:15 AM**  
**Joao Conceicao**  
Safety and efficacy of ertugliflozin plus sitagliptin vs either treatment alone after 52 wks in patients with T2DM poorly controlled on metformin: VERTIS FACTORIAL extension abs# 108

**9:30 AM**  
**David M Hoffman**  
SGLT2 inhibitors versus GLP-1 analogues – comparison of efficacy and sustainability; an Australian DINGO (Diabetes Informatics Group) multicentre study of over 1,000 class initiations in private endocrine practice abs# 109

**9:45 AM**  
**Timothy Davis**  
Severe hypoglycaemia, cardiovascular outcomes and death – the LEADER experience abs# 110

**10:00 AM**  
**Tushar Issar**  
GLP-1 agonism alters peripheral nerve function in patients with type 2 diabetes abs# 111

**10:15 AM**  
**Karen L Jones**  
Acute effects of lixisenatide on gastric emptying, glycaemic and blood pressure responses to oral glucose in health and type 2 diabetes abs# 112
ADS Australia: China Symposium
8:30am - 10:30am
Chair: Sof Andrikopoulos
8:30 AM
  Xuefeng Yu
  Circulating Betatrophin Levels Are Increased in Patients with Type 2 Diabetes and Associated With Insulin Resistance: Mechanism for Regulation of Betatrophin Expression abs# 113
9:00 AM
  Xiaoying Li
  Epigenetics and Diabetes abs# 114
9:30 AM
  Haipeng Xiao:
  GLP-1 and Cancer, Foe or Friend? abs# 115

ADS & ADEA Morning Tea
10:30am - 11:00am

ADEA Workshop: Managing Eating Disorders and Diabetes
11:00am - 1:00pm
Chair: Warren Ward
11:00 AM
  Warren Ward, Carolyn Uhlmann, Helen d’Emden
  Managing Eating Disorders and Diabetes abs# 116

ADEA Kellion Award
11:00am - 11:45am
Chair: Sophia Zoungas
11:00 AM
  Mark Febbraio
  From Jock to Doc: a career long passion to prove exercise is medicine abs# 117

ADEA Case Study Presentations
11:00am - 1:00pm
Chair: Peta Tauchmann
11:00 AM
  Peta Tauchmann
  Opening
11:10 AM
  Connie Lou
  Flashing a spotlight onto hidden hypos in chronic kidney disease (CKD)
11:30 AM
  Jui-Wen Vivien Hsu
  Build your confidence to live well with diabetes
11:50 AM
  Rebecca Humphreys
  Engage the un-engaged – ‘taking diabetes care off auto-pilot’
12:10 AM
  Robyn Hart
  On the road to better management

These case studies are included in the ‘Contemporary issues in the practice of diabetes care, diabetes education and self-management’ booklet, included in your conference bag.

Vote for People’s Choice Award for the Best Case Study at the end of this session.

ADEA Masterclass: How to conceptualize your ideas into a business model
11:00am - 1:00pm
Chair: Carolyn Nugent
11:00 AM
  Julie Adams
  Private practice marketing: How to conceptualize your ideas into a business model abs# 118
ADS Ranji and Amara Wikramanayake Clinical Diabetes Research Award Lecture
11:45am - 12:15pm
Riverside Theatre
Chair: Sophia Zoungas
11:45 AM
Jerry Greenfield
Characterisation of novel sub-phenotypes of human obesity: implications for diabetes prevention and treatment abs# 119

ADS Annual General Meeting
12:15pm - 1:00pm
Riverside Theatre

ADS & ADEA Lunch
1:00pm - 2:00pm
Exhibition Hall

The conference acknowledges the support of Ascensia

Lunchtime Meetings:

ADDN Information Forum
1:00pm - 2:00pm
Meeting Room 3

ADEA National Private Practice SiG Meeting
1:00pm - 2:00pm
Meeting Room 8
Chairs: Peta Tauchman & Jennifer Nicholas
Lunch will be provided
NB: to participate you must be a member of this ADEA Special Interest Group

Briefing by the Department of Health regarding an NDSS product update
1:15pm - 2:00pm
Meeting Room 1 & 2

The NADC Foot Network – connecting the high risk foot service dots
1:15pm - 2:00pm
Meeting Room 4 &5
Chair: Sof Andrikopoulos
Stephen Twigg & Leanne Mullan
ADS ASM Meet the Expert: Diabetes Foot Disease and the NADC Foot Network Working Party abs# 120

WA Private Practice SIG
2:00pm - 3:00pm
Meeting Room 12

Plenary

ADS Plenary Lecture: Domenico Accili
2:00pm - 3:00pm
Riverside Theatre
Chair: Mark Febbraio
2:00 PM
Domenico Accili
The new biology of diabetes abs# 121

ADEA Workshop: Petra Wilson
2:00pm - 3:00pm
Meeting Room 1 & 2
Chair: Elizabeth Obersteller
2:00 PM
Petra Wilson
Political Advocacy for Diabetes abs# 122

Concurrent Sessions

ADEA Orals: Self Management Skills
2:00pm - 3:00pm
Meeting Room 6
Chair: Karen Crawford

2:00 PM  Kylie Mahony
DESMOND: Delivery of person centred care from the participant perspective abs# 123

2:10 PM  Diane Ledger
DESMOND: Self-management planning is the goal abs# 124

2:20 PM  Claire R Gatto
Emerging adults with type 1 diabetes in regional Victoria perceptions impact and self-management abs# 125

2:30 PM  Hamzah Alzubaidi
Diabetes distress and its relationship with self-care behaviors, self-efficacy, glycemic control and acculturation levels among Arabic-speaking and Caucasian English-speaking patients with diabetes abs# 126

2:40 PM  Catherine Finneran
Impact of a Diabetes Educator: Post implementing a Guideline for screening and management of Diabetes with Pancreatic Surgery abs# 127

ADEA Nutrition & Exercise Orals
2:00pm - 3:00pm
Meeting Room 7
Co-Chairs: Patricia Marshall & Amanda Lee

2:00 PM  Alan W Barclay
Declining consumption of added sugars and sugar-sweetened beverages in Australia: a challenge for obesity prevention abs# 128

2:10 PM  Barbara Keating
What is the quantity of additional insulin required for meals high in fat and protein? abs# 129

2:20 PM  Rebecca Stiegler
Women after gestational diabetes (WAGs) experience of running a lifestyle modification program for women post gestational diabetes. abs# 130

2:30 PM  Marian Brennan
Evaluation of a pilot group education workshop to reduce fear of exercise induced hypoglycaemia in patients with type 1 diabetes mellitus abs# 131

ADS Clinical Poster Discussions & Viewing
2:00pm - 3:00pm
Exhibition Hall
Please see poster listing for all presenters

The conference acknowledges the support of Roche Diabetes Care

ADS & ADEA Afternoon Tea
3:00pm - 3:30pm
Exhibition Hall

Afternoon Meeting:

A DEA NSW Branch Conference Committee
3:00pm - 4:00pm
Meeting Room 12

Concurrent Sessions

ADS Clinical Orals: Nutrition, obesity and Gastrointestinal Mechanisms
3:30pm - 5:30pm
Meeting Room 1 & 2
Chairs: Dorit Samocha-Bonet & Karen Jones

3:30 PM  Aya Mousa
Plasma lipidomics are associated with insulin sensitivity and secretion in overweight and obese, non-diabetic adults abs# 132

3:45 PM  John Prins
3-year efficacy and safety for liraglutide 3.0 mg in adults with obesity/overweight, prediabetes and baseline BMI <35 vs ≥35 kg/m² in the SCALE Obesity and Prediabetes, double-blind, placebo-controlled trial abs# 133

4:00 PM  Alicia Jenkins
The effect of a high egg diet on cardiovascular risk factors in people with type 2 diabetes during weight loss and weight maintenance: the randomized DIABEGG study abs# 134

4:15 PM  Estifanos Baye
Effect of carnosine supplementation on the plasma lipidome in overweight and obese non-diabetic adults: a pilot randomised controlled trial abs# 135

4:30 PM  Barbora de Courten
Vitamin D supplementation has no effect on insulin sensitivity or secretion in vitamin D-deficient, overweight or obese adults: a randomized placebo-controlled trial. abs# 136

4:45 PM  Tongzhi Wu
Endogenous glucagon-like peptide-1 mediates the lowering of glycaemia during small intestinal glucose infusion by bile acids in type 2 diabetes abs# 137

5:00 PM  Chinmay S Marathe
The impact of variable duodenal glucose load on insulin clearance in health abs# 138

5:15 PM  Tongzhi Wu
Blockade of glucagon-like peptide-1 receptors by exendin(9-39) attenuates the increase in heart rate during small intestinal glucose infusion in type 2 diabetes abs# 139

**ADS & ADEA Joint Symposium: Indigenous Health**

3:30pm - 5:30pm  Riverside Theatre

Chairs: Ashim Sinha & Coralie Cross

3:30 PM  Brandy Wicklow
Intergenerational impact of type 2 diabetes on First Nations Families and Communities: Lessons from The Next Generation Canadian birth cohort. abs# 140

4:00 PM  Julie Brimblecombe
Population level application of price discounts to promote healthy eating: The SHOP@RIC study abs# 141

4:30 PM  Helen Mitchell
DESMOND WA – working with communities to adapt educational resources abs# 142

5:00 PM  Glenn Pearson
Working with communities Aboriginal community leader’s perspective abs# 143

*The conference acknowledges the support of AstraZeneca*

**ADS Symposium: Genetics of Diabetes**

3:30pm - 5:30pm  Meeting Room 4 & 5

Chairs: Kathryn Aston-Mourney & Christopher Nolan

3:30 PM  Elna Hypponen
Diet and diabetes: what have genetic studies taught us about causal effects? abs# 144

4:00 PM  Grant Morahan
Support for the “common disease-rare variant” hypothesis: a mutation in the ahcy gene causes type 1 diabetes abs# 145

4:30 PM  Assam El-Osta
Systems methylome approach identifies core pathways implicating MTOR in disease progression to diabetic nephropathy abs# 146

5:00 PM  Andrew Hattersley
Insights into the human beta-cell from genetics abs# 147

**ADEA Symposium: Opportunities & Challenges with Real World Clinical Data and the Regulatory Initiative**

3:30pm - 5:30pm  Meeting Room 7

3:30 PM  Authors: Sanjoy Paul (facilitator), Jonathan Shaw
Opportunities & Challenges with Real World Clinical Data and the Regulatory Initiative abs# 148
ADEA Masterclass: Tips and tricks to enhance your consultations
3:30pm - 5:30pm

3:30 PM  Christel Hendrieckx, Ann Morris
Tips and tricks to enhance your consultations abs# 149

ADEA Masterclass: Statistics in plain English
3:30pm - 5:30pm
Chair: Heiki Krausse

3:30 PM  Helen Barraclough
Statistics in plain English abs# 150

National Diabetes in Pregnancy SIG Meeting
4:00pm - 5:00pm
Chair: Dianne Bond

ADS & ADEA Conference Dinner
7:00pm - 11:30pm
Theme: ‘GO WEST’: Country and Western theme Party

This conference acknowledges the sponsorship of Servier
**SCIENTIFIC PROGRAM**  
Friday 1st September, 2017

**Novo Nordisk Changing Diabetes® Fun Run/Walk**  
6:30am – 7:30am (Warm up: 6:30am | Start time: 6:45am)  
Location: Langley Park, Plain St & Hay St, East Perth WA 6004

*This conference acknowledges the sponsorship of Novo Nordisk*

The course runs along the Swan River bank, through the Fraser Point parkland, under the Riverside Causeway and circling back along the route to finish back at Langley Park.  
Please note that **only healthcare professional who are registered delegates of the ASD-ADEA ASM 2017** can participate in the Fun Run/Walk.

**Breakfast Sessions - Concurrent**

**Bayer Breakfast Workshop**  
7:30am - 8:30am  
Eye health in diabetics: looking at vision, not just blood glucose  
Meeting Room 4

**ADEA Board Meeting**  
8:30am - 10:30am  
Meeting Room 12

**Concurrent Sessions**

**ADS Servier Diabetes Research Grant**  
9:00am - 9:15am  
Meeting Room 5  
Chairs: Emma Hamilton & Anthony Russell  
9:00 AM  
**Richard J MacIsaac**  
Diabetic Kidney and Vascular Disease: Evaluating Novel Biomarkers in Type 2 Diabetes abs# 151

**ADS Orals Complications of diabetes**  
9:15am - 11:00am  
Meeting Room 5  
Chairs: Emma Hamilton & Anthony Russell  
9:15 AM  
**Elif I. Ekinci**  
Predictors of albumin to creatinine ratio (ACR) among Indigenous Australian participants in the eGFR follow up study abs# 152  
9:30 AM  
**Kirsten E Peters**  
Validation of models for predicting rapidly declining renal function in type 2 diabetes: the Fremantle Diabetes Study Phase II abs# 153  
9:45 AM  
**Richard J MacIsaac**  
Liraglutide and renal outcomes in type 2 diabetes: results of the LEADER trial abs# 154  
10:00 AM  
**Niloufar Torkamani**  
Associations between glycaemic status and renal function decline over time in inpatients with diabetes abs# 155  
10:15 AM  
**Angela X Chen**  
Effect of angiotensin II receptor blocker (ARB) and dietary sodium chloride (NaCl) on short-term blood pressure variability in patients with type 2 diabetes (T2DM) abs# 156  
10:30 AM  
**Vivienne H Chuter**
Determining the diagnostic accuracy of the ankle brachial index for detecting peripheral arterial disease in people with diabetes. A systematic review and meta-analysis. abs# 157

Laima Brazionis

Primary care-based diabetic retinopathy screening identifies early intervention opportunities - on behalf of the TEAMSnet Study Group and the CRE in Diabetic Retinopathy abs# 158

### ADS Symposium: Type 1 Diabetes Prevention

**9:00am - 11:00am**

**Riverside Theatre**

**Chairs:** Tom Kay & Maria Craig

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<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td>Jennifer Couper</td>
<td>Type 1 diabetes: a disease of developmental origins?</td>
<td>159</td>
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<td>9:30 AM</td>
<td>Michelle So</td>
<td>Lessons from the crime scene: steps towards a cellular biomarker of type 1 diabetes and the response to antigen-specific therapy</td>
<td>160</td>
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<tr>
<td>10:00 AM</td>
<td>John Wentworth</td>
<td>Randomised trial of imatinib in recent-onset type 1 diabetes: one-year outcomes</td>
<td>161</td>
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<tr>
<td>10:30 AM</td>
<td>Carla Greenbaum</td>
<td>TrialNet Potpourri</td>
<td>162</td>
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This conference acknowledges the sponsorship of Novo Nordisk

### ADS & ADEA Joint Technology Symposium: The future is now – technologies changing diabetes care

**9:00am - 11:00am**

**Riverside Theatre**

**Chairs:** Natalie Wischer & Sof Andrikopoulos

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<tr>
<td>9:00 AM</td>
<td>Brian Oldenburg</td>
<td>Can digital health programs really improve diabetes outcomes in populations?</td>
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<td>9:40 AM</td>
<td>Rebecca Johnson</td>
<td>Using the technology toolbox to build a better diabetes</td>
<td>164</td>
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<tr>
<td>10:20 AM</td>
<td>John Furler</td>
<td>Coming soon</td>
<td>165</td>
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### ADEA Masterclass: Working effectively with the people with diabetes to support a medicine wise approach to the use medications

**9:00am - 11:00am**

**Meeting Room 3**

**Chair:** Elizabeth Obersteller

**Speakers include:** Rachel Freeman, Maxine Schlaeppi, Theresa Di Franco

**Overview:** The increasing incidence of type 2 diabetes occurring at different stages and ages means that health professionals need to have current knowledge and awareness of all the therapeutic options available to support the PWD. This session will discuss and describe medication management options including the use of clinical guidelines. These guidelines are important, however the HCP still requires an in depth and up to date knowledge of each of the medications classes efficacy, tolerability, and safety. The advantages and disadvantages will be discussed including a focus on newer medications and formulation. The session will include active learning activities with case studies and open discussion. The session will also discuss the legislation related to prescribe and HCP. Discussion will focus on the importance of the HCP awareness of individual scopes of practice in relation to medication use in the management of diabetes.

### ADS Clinical Trials Update

**9:00am - 11:00am**

**Bellevue Ballroom 2**

**Chairs:** Alicia Jenkins & P. Gerry Fegan

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<td>9:00 AM</td>
<td>Tim W Jones</td>
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</table>
The AdIT trial: cardiorenoprotection in at risk adolescents with type 1 diabetes abs# 166

9:30 AM   Timothy Davis
Cardiovascular outcomes: Are all SGLT2 inhibitors the same? abs# 167

10:00 AM   Mikhail Kosiborod
PCSK-9 CVD-REAL study abs# 168

10:30 AM   Sophia Zoungas
DEVOTE abs# 169

ADS Basic Orals: Metabolism
9:00am - 11:00am
Meeting Room 4

Chairs: Magdalene Montgomery & Kim Loh

9:00 AM   Darren M Riddy
Constitutive knockout of Gpr21 inhibits the ex vivo migration of mouse immune cells abs# 170

9:15 AM   Lakshini Herat
The metalloproteinase adam28 promotes metabolic dysfunction in humans and mice abs# 171

9:30 AM   Brenna Osborne
An NMNAT1 over-expressing mouse model shows altered lipid profile in skeletal muscle, despite tissue
specific improvements in glucose disposal abs# 172

9:45 AM   Yan-Chuan Shi
Y5 receptor signalling counteracts the anorectic effects of PYY3-36 in diet induced obese mice
abs# 173

10:00 AM   Amanda E Brandon
The effects of housing temperature on obesity and insulin resistance in mice abs# 174

10:15 AM   Supreet Kaur
Role of hepatic NADPH oxidase 4 in the development of obesity and liver disease. abs# 175

10:30 AM   Mark D Gorrell
Fibroblast activation protein is important for glucose homeostasis, insulin resistance, lipid metabolism
and liver steatosis abs# 176

10:45 AM   Sergio F Martinez Huenchullan
Differential metabolic effects of moderate vs. high intensity interval exercise may be related to muscle
adiponectin in high-fat fed mice. abs# 177

ADS & ADEA Morning Tea
11:00am - 11:30am
Exhibition Hall

ADS Plenary Lectures: Dana Dabelea and Andrew Hattersley
11:30am - 1:00pm
Bellevue Ballroom 2
Chair: Glynis Ross

11:30 AM   Dana Dabelea
Diabetes in American Youth- Updates from the SEARCH study abs# 178

12:15 PM   Andrew Hattersley
Precision diabetes: right diagnosis leads to the right treatment abs# 179

ADEA
11:30am - 1:00pm
Riverside Theatre
Chair: Giuliana Murfet

AGM - registration open from 11am. Morning tea will be provided.
Jan Baldwin Oration: Kirrily Chambers & Ann Morris – 2016 Jan Baldwin National CDE of the Year Award Ceremony:

- CDE of the Year Award 2017
- Poster & Oral Awards
- Dietitian Association Australia Award - Presented by Kirstine Bell
- People’s Choice Award for Best Case Study

**ADS & ADEA Lunch**
1:00pm - 2:00pm  
Exhibition Hall

**Concurrent Sessions**

**ADS John R. Turtle Diabetes Clinical Skills Training Course for Advanced Trainees in Endocrinology**  
1:00pm - 5:30pm  
Meeting Room 1 & 2

*This conference acknowledges the support Servier Laboratories and of Eli Lilly*

**ADS Skip Martin Early Career Fellowship**  
2:00pm - 2:15pm  
Meeting Room 5

**Chairs:** Emily Gianatti & David Simmons

- **Helen L Barrett**
  Maternal capillary triglycerides in late pregnancy abs# 180

**ADS Clinical Orals: Pregnancy and nutrition**  
2:15pm - 3:30pm  
Meeting Room 5

**Chairs:** Emily Gianatti & David Simmons

- **Tang Wong**
  Are IADPSG defined GDM women with fasting glucose levels of 5.1 to 5.4mmol/L really at higher risk of adverse pregnancy outcomes? abs# 181

- **Samantha L Hocking**
  Glycaemic variability is associated with accelerated foetal growth and large for gestational age neonates in women with type 1 diabetes abs# 182

- **Tang Wong**
  A comparison of pregnancy outcomes in treated GDM women compared to those without GDM abs# 183

- **Angela Titmuss**
  Intergenerational effects of hyperglycaemia in pregnancy the PANDORA Wave 1 study abs# 184

- **Linda E Watson**
  A whey/guar “preload” reduces postprandial glycaemia and HbA1c in type 2 diabetes: a 12-week, single-blind, randomised and placebo-controlled trial abs# 185

**A Hypothetical: Our kids are fat, getting diabetes and what are we doing about it!**  
2:00pm - 3:30pm  
Riverside Theatre

**Facilitator:** Norman Swan

The discussion/hypothetical will be moderated by Dr Norman Swan, a high profile medical journalist for the ABC and the panel members will include:

1. Jane Martin - Obesity Policy Coalition
2. Mark Shah - Nurse Practitioner, Princess Margaret Hospital
3. Justine Doust - Paediatric clinical psychologist, Princess Margaret Hospital
4. Tarun Weeramanthri - Chief Health Officer/Assistant Director General, Public Health
5. Brandy Wicklow - Pediatric Endocrinologist, University of Manitoba

**ADS Clinical Symposium: Epidemiology**

2:00pm - 3:30pm  
Meeting Room 4

Chair: Maximilian de Courten

2:00 PM  
**Dianna Magliano**  
World-wide Trends In Diabetes Incidence: Is The Epidemic abating? abs# 186

2:30 PM  
**Bu Yeap**  
Diabetes in older adults abs# 187

3:00 PM  
**Wendy Davis**  
Diabetes complications – is the burden rising or falling? abs# 188

**ADS Basic Symposium: Lipids and Diabetes**

2:00pm - 3:30pm  
Bellevue Ballroom 2

Chair: Carsten Schmitz-Peiffer

2:00 PM  
**Anna Calkin**  
Identification of a novel regulator of lipid metabolism using a trans-omics approach abs# 189

2:30 PM  
**Clinton Bruce**  
Ectopic lipids and defective glucose metabolism: cause or association? abs# 190

3:00 PM  
**Nigel Turner**  
Understanding lipid mediators of insulin resistance abs# 191

**ADS & ADEA Closing Ceremony**

3:30pm - 4:00pm  
Riverside Theatre