

Proceedings of the

63RD ENDOCRINE SOCIETY OF AUSTRALIA ANNUAL SCIENTIFIC MEETING

VIRTUAL

31ST OCT - 1ST NOV 2020

DELEGATE E-BOOK



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The Bayer logo is a circular emblem with a green outer ring and a blue inner ring. Inside the circle, the word "BAYER" is written in a bold, black, uppercase sans-serif font, with the letters stacked vertically.The Novartis logo features a stylized orange and blue flame-like icon to the left of the word "NOVARTIS" in a blue, uppercase sans-serif font.

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WELCOME FROM THE PRESIDENT

The President of the Endocrine Society of Australia wishes you a very warm welcome to this virtual Annual Scientific Meeting of the Society encompassing key areas in Endocrinology.

We hope that this virtual meeting will bring some collegiality, education and scientific presentations and discussions to what has been a very challenging year for us all. We recognise that particularly our Victorian and Overseas colleagues, their workplaces and families will have had a very difficult time, and hope that the COVID-19 situation across the world will soon improve for us all.

The virtual scientific meeting program has an outstanding list of invited international and national plenary and symposium speakers. The Harrison Lecturer will be Prof Mitchell Lazar who will be presenting from The University of Pennsylvania (USA). The program is a mixture of the traditional Clinical Weekend and Scientific Meeting, with a focus on the Society's award presentations, as well as some scientific symposia and outstanding poster presentations. Between the streams of the plenary presentation, symposia, case studies, short oral abstracts, poster sessions, and young investigator awards, we are sure you will have a rewarding experience.

The response to this meeting has been overwhelmingly positive in terms of collaboration, industry sponsorship and registrations. Despite the current challenges, there has been an outstanding number of submissions for presentations and posters that highlights the strength of our society and the determination of our members. We thank the ASN for their help in organisational support, and for ensuring that the potential challenges of a virtual meeting are overcome. We hope all attendees will enjoy the meeting, and leave updated, enriched and enthused by their experiences.



Timothy Cole
ESA President



Helen Barrett
ESA Program Chair

ESA PROGRAM ORGANISING COMMITTEE

Helen L Barrett (Chair Clinical)

Mater Health South Brisbane and Mater Research Institute –The University of Queensland

Timothy J Cole (Chair Basic)

Monash University, Victoria

James Cuffe

The University of Queensland

Linda Gallo

The University of Queensland

Emily Mackenzie

Princess Alexandra Hospital, Queensland

Christina Jang

Mater Hospital, Queensland

Donald McLeod

Royal Brisbane and Women's Hospital, Brisbane and QIMR Berghofer Medical Research Institute, Queensland

Jennifer Gunter

Queensland University of Technology, Queensland

Penny Hunt

The University of Otago, New Zealand

Elodie Desroziers

The University of Otago, New Zealand

ENDOCRINE SOCIETY OF AUSTRALIA (ESA)

ESA OFFICE BEARERS 2020

President	Timothy J. Cole	Councillor	Mathis Grossmann
President Elect	Bu Beng Yeap	Councillor	Shane Hamblin
Secretary	Morton Burt	Councillor	Diana Learoyd
Treasurer	Belinda A. Henry	Councillor	Emily Mackenzie
Past President	Warrick Inder	Councillor	Ann McCormack

PAST ESA OFFICE BEARERS 1958-2020

YEAR	PRESIDENT	PRESIDENT ELECT	SECRETARY	TREASURER
1958-60	E. Downie		P. Taft	P. Taft
1960-62	C. W. Emmens		K. Harrison	K. Harrison
1962-64	K. Harrison C. W. Emmens (March 63)		I. Thomas	I. Thomas
1964-66	B. Hetzel	V. Trikojus	I. Jarrett	I. Jarrett
1966-68	B. Hudson	V. Trikojus	R. Melick	I. Jarrett
1968-70	P. Taft	R. Cox	R. Melick	I. Jarrett
1970-72	I. Jarrett	K. Ferguson	T. J. Martin	L. Lazarus
1972-74	K. Ferguson	L. Lazarus	R. D. Gordon	L. Lazarus
1974-76	H. G. Burger	J. R. Turtle	S. Posen	C. J. Eastman
1976-78	S. Posen	J. P. Coghlan	P. E. Harding	C. J. Eastman
1978-80	J. P. Coghlan	C. J. Eastman	R. G. Larkins	J. W. Funder
1980-82	C. J. Eastman	J. W. Funder	D. P. Cameron	G. L. Warne
1982-84	J. W. Funder	R. G. Larkins	R. C. Baxter	G. L. Warne
1984-86	R. G. Larkins	D. P. Cameron	R. C. Baxter	D. M. Hurley
1986-88	D. P. Cameron	R. C. Baxter	S. J. Judd	D. M. Hurley
1988-90	R. C. Baxter	S. J. Judd	J. R. Stockigt	D. J. Handelsman
1990-92	J. R. Stockigt	J. A. Eisman	G. W. Tregear	D. J. Handelsman
1992-94	D. J. Handelsman	P. J. Fuller	R. L. Prince	D. J. Topliss
1994-96	P. J. Fuller	R. L. Prince	G. P. Risbridger	D. J. Topliss
1996-98	D. J. Topliss	R. J. Rodgers	G. P. Risbridger	M. S. Lewitt
1998-00	R. J. Rodgers	J. D. Zajac	K. K. Y. Ho	M. S. Lewitt B. J. Waddell (May 99)
2000-02	K. K. Y. Ho	B. J. Waddell	B. Canny	C. Coulter
2002-03	B. Canny	J. D. Zajac	R. Cuneo	C. Coulter
2004-06	J. D. Zajac	L. Bach	M. McLean	V. Clifton
2006-08	L. Bach	M. McLean	D. Phillips	V. Clifton
2009-10	M. McLean	V. Clifton	D. Phillips	B. Yeap V. Clifton (Feb 10)
2010-12	V. Clifton	P. Ebeling	T. Cole	W. Inder
2012-14	P. Ebeling	H. Teede	T. Cole	W. Inder
2014-16	H. Teede	W. Inder	T. Cole	N. Hodyl
2016-18	W. Inder	T. Cole	M. Burt	N. Hodyl
2018-20	T. Cole	B. Yeap	M. Burt	B. Henry

SOCIETY & CONFERENCE SECRETARIAT

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Sydney, NSW 2000
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Unit 9/397 Smith Street,
Fitzroy VIC 3065
Phone 0449 251 659
Jim.f@asnevents.net.au
Contact person: Jim Fawcett
www.asn.events

SPONSORS, AWARDS AND LECTURERS OF THE ENDOCRINE SOCIETY OF AUSTRALIA

ESA AWARD SPONSORS



KEITH HARRISON MEMORIAL LECTURERS

The Keith Harrison Memorial Lecture is given each year at the ESA Annual Scientific Meeting in honour of Prof Keith Harrison, one of the founders of ESA and an early President.

1964	Kenneth Ferguson	1996	Gregory Mundy
1965	Geoffrey Harris	1997	M. Geoffrey Rosenfeld
1973	Albert Renold	1998	Ken Korach
1974	Paul Franchimont	1999	Henry Burger
1975	William Odell	2000	Pierre Chambon
1976	John Landon	2001	Jack Martin
1977	Hugh Niall	2002	George Chrousos
1978	Samuel Yen	2003	Derek LeRoith
1979	John Shine	2004	Bruce McEwen
1980	Ronald Swerdloff	2005	Richard Pestell
1981	Sidney Ingbar	2006	William Crowley
1982	Jens Rehfeld	2007	Gerard Karsenty
1983	Philip Lowry	2008	Colin Ward
1984	Fernand Labrie	2009	John Cidlowski
1985	Michael Berridge	2010	Stafford Lightman
1986	Michael Thorner	2011	Paul Stewart
1987	Lynn Loriaux	2012	Lucilla Poston
1988	Axel Ulrich	2013	Matthew During
1989	Hiroo Imura	2014	Sundeep Khosla
1990	Iain McIntyre	2015	Richard Santen
1991	Eli Adashi	2016	Stephen Franks
1992	Jan-Ake Gustafsson	2017	Márta Korbonits
1993	Eberhard Nieschlag	2018	Peter Fuller
1994	Allen Spiegel	2019	Daniel Drucker
1995	Natalie Josso	2020	Mitchell Lazar

PINCUS TAFT MEMORIAL LECTURERS

Pincus was a founder of clinical endocrinology in Melbourne and in Australia. As the obituary states he was the inspiration and role model for many younger colleagues to take up endocrinology. He had a rare ability to accord respect to all his colleagues from interns and JRMOs through to contemporaries while still being able to instruct or guide them according to an uncompromisingly high standard and he was never afraid to openly acknowledge someone else's ideas if he thought they were better than his [although not a common occurrence].

1994	C Ronald Kahn	2008	William F Young Jr
1995	William Bremner	2009	Karen Miller
1996	Steven Lamberts	2010	Karel Pacak
1997	George Brabant	2011	Kathleen Hoeger
1998	Simeon Taylor	2012	Gudmundur Johannsson
1999	Christopher K Glass	2013	Anthony Hollenberg
2001	Domenico Accilli	2014	John Wass
2002	Paul Stewart	2015	Michael Tuttle
2003	Terry Davies	2016	Constantine Stratakis
2004	Peter E Clayton	2017	Gerard Conway
2005	David Dunger	2018	Susan Mandel
2006	Sadaf Farooqi	2019	Angela Leung
2007	Robert J Smith	2020	*Not awarded

ESA SENIOR PLENARY AWARD

The ESA Senior Plenary Award recognises an outstanding research career in the field of Endocrinology in Australia

2011	Ken Ho	2016	Wayne Tilley
2012	Gail Risbridger	2017	Patrick M Sexton
2013	Geoffrey Tregear	2018	Rob McLachlan
2014	Iain Clarke	2019	Susan Davis
2015	Evan Simpson	2020	*Not awarded

ESA MID-CAREER RESEARCH AWARD

The ESA Mid-Career Research Award recognises an outstanding mid-career researcher in endocrinology.

2009	Rachel Davey	2015	Lisa Moran
2010	Peter Liu	2016	*Not awarded
2011	Mathis Grossmann	2017	Frances Milat
2012	Emma Duncan	2018	Kirsty Walters
2013	Zane Andrews	2019	Kelly Walton
2014	Kevin Pflieger	2020	Mitchell Lawrence

ESA NOVARTIS JUNIOR SCIENTIST AWARD

The Novartis Junior Scientist Award is awarded annually to a member who is a postgraduate student or recently graduated post-doctoral fellow, for the best original paper at the Annual Scientific Meeting.

1976	Kathryn Rich & Peter Fuller	1998	Julie Joyner
1977	David Kennaway	1999	Renea Jarred & Helena Teede
1978	David Healy	2000	Jeremy Smith
1979	George Werther	2001	Stephen Heady
1980	Rebecca Mason	2002	Patrick McManamny
1981	Yvonne Hodgson	2003	Sophie Chan
1982	David Hurley	2004	Esme Hatchell
1983	Carolyn Scott	2005	Agnes Kovacic & Amy Au
1984	David James	2006	David Macintyre
1985	Guck Ooi	2007	Marrienne Elston
1986	Marie Ranson	2008	Sue Lau
1987	Lora Hutchinson	2009	Kenneth Ho
1988	Vasilious Papadopoulos	2010	Lyndal Tacon
1989	David Phillips	2011	Jun Yang
1990	Sharon Gargosky	2012	Patrick Candy
1991	Marie-Christine Keightley & Helen Maclean	2013	Kevin Lee Tao-Kwang
1992	Fiona Young	2014	Marianna Volpert
1993	Emma Ball	2015	Dilys TH Leung
1994	Vicki Clifton	2016	Ashlee Clark
1995	Michael Downes & Sylvia Lim-Tio	2017	Patrick Thomas
1996	John Walsh	2018	Laura H Porter
1997	Bu Yeap	2019	Adam Hagg

ESA YOUNG INVESTIGATOR SCIENTIFIC ARTICLE AWARD

Previously known as the Servier Award, the ESA Young Investigator Scientific Article Award is awarded annually to recognise the best scientific paper published in the 12-month period preceding the closing date for abstracts for the Annual Scientific Meeting by an active member of the Endocrine Society of Australia early in their career.

1991	Sharon Gargosky	2006	Renea Taylor
1992	Peter Stanton	2007	Kirsten McTavish
1993	Janet Martin	2008	Belinda Henry
1994	Chen Chen	2009	Kristy Brown
1995	Timothy Crowe	2010	Zoe Hyde
1996	Jun-Ping Lui	2011	Stefan Bagheri-Fam
1997	Liza O'Donnell	2012	Priya Sumithran
1998	Stephen Twigg	2013	Jennifer Lo
1999	Dan Lee	2014	Anthony Bird
2000	Fraser Rogerson	2015	Christian Girgis
2001	Karen Kroeger	2016	Justin Chen
2002	Susan Fanayan	2017	Jimmy Shen
2003	Jenny Gunton	2018	Sabashini Ramchand
2004	Peter Liu	2019	Nandini Shankara Narayana
2005	Simon Chu	2020	Angela Lee

ESA BRYAN HUDSON CLINICAL ENDOCRINOLOGY AWARD

The ESA Bryan Hudson Clinical Endocrinology Award is awarded annually to recognise the best clinical research presentation at the Annual Scientific Meeting by an active member of the Endocrine Society of Australia early in their career.



2004	Sonia Davison	2012	Caroline Jung
2005	Carolyn Allan	2013	Emily Gianatti
2006	Jui Ho	2014	Phillip Wong
2007	Morton Burt	2015	Ada Cheung
2008	Ann McCormack	2016	Mark Ng Tang Fui
2009	Paul Lee	2017	Michael Mond
2010	Jeremy Hoang	2018	le-Wen Sim
2011	Lucia Gagliardi	2019	Teresa Lam

ESA PAUL LEE BEST ABSTRACT AWARD

2018	Warrick Inder	2020	Nandini Shankara Narayana
2019	Jennifer Chen		

ESA / IPSEN INTERNATIONAL TRAVEL GRANT

This award supports younger members of the society to travel to international meetings, laboratories and/or clinics to further their training and knowledge in Endocrinology.

2003	Emma Ball	2012	Christopher Yates, Dana Briggs, Shyuan Ngo, Sarah To
2004	Gordon Howarth, Sophie Chan and Vincenzo Russo	2013	Christian Girgis, Jenna Haverfield, Steven Yau
2005	Stuart Ellem	2014	Malgorzata Brzozowska, Kelly Walton
2006	Kevin Pflieger and Erosha Premaratne	2015	Sally Abell, Sybil McAuley, Jaesung Peter Choi
2007	Lisa-Marie Atkin, Elspeth Gold and Michael Stark	2016	Aneta Stefanidis, Rajini Sreenivasan
2008	Elif Ekinci, Andrew Siebel, Jenny Chow	2017	Dilys Leung, Sabashini Ramchand, Soulmaz Shorakae
2009	Michelle Van Sinderen, Jyotsna Pippal and Ulla Simanainen	2018	Jasna Aleksova, Matti Gild, Emily Meyer
2010	Wee-Ching Kong, Fredrick Steyn, Ann McCormack	2019	Sunita De Sousa, Hanh Nguyen, Jun Yang
2011	Stacey Jamieson, Kristy Brown, Kevin Knowler	2020	*Not awarded

WE / ESA AUSTRALIAN WOMEN IN ENDOCRINOLOGY (AWE) TRAVEL AWARDS

2001	Karen Kroger, Elizabeth Nye	2010	Sarah To, Liza Phillips
2002	Aylin Hanyaloglu, Kylie Hewitt	2011	Jun Yang, Shirin Hussain
2003	Nicola Solomon, Carolyn Allan	2012	Lili Huang, Kara Britt
2004	Renea Jarred, Rachel Hill	2013	Anju Joham, Helen Barrett
2005	Teresa Hickey, Agnes Kovacic	2014	Kathryn Hackman, Sarah Gastras
2006	Rebecca Robker, Nichola Thompson	2015	Amanda Rickard, Ying Wan
2007	Sue Mei Lau, Ashwini Chand	2016	Ada Cheung, Sally Abell
2008	Johanna Barclay, Ulla Simanainen, Kathryn Backholer	2017	Moe Thurzar, Rebecca Goldstein
2009	Kesha Rana, Stacey Jamieson, Kavitha Iyer, Vita Birzniece	2018	Sophie Lee, Matti Gild, Hanh Nguyen
		2019	Sunita De Sousa, Eleanor Thong
		2020	*Not awarded

ESA ASIA/OCEANIA TRAVEL SUPPORT GRANTS

Several grants are offered to researchers from countries in the Asia-Oceania region to travel and present an abstract at The ESA Annual Scientific Meeting, to further their training and knowledge in Endocrinology.

2018	Arooj Fatima, Jinbo Hu, Udai Wijetunga	2020	*Not awarded
2019	Anuradha Jayasuriya, Smitha Rao, Udai Wijetunga		

ESA RESEARCH SEED GRANTS

Seed Grants of \$10,000 are for research in any area of endocrinology by a mid-career ESA member.

2018	Mitchell Lawrence, Kirsty Walters, Jun Yang
2019	Morton Burt, Caroline Jung, Adam Rose, Aneta Stefanidis
2020	Ada Cheung, Luba Sominsky

ESA KEN WYNNE MEMORIAL POSTDOCTORAL RESEARCH AWARD



2013	Lisa Moran
2014	Kristy Brown
2015	Jun Yang
2016	Kirsty Walters
2017	Frances Milat
2018	Kelly Walton
2019	Frances Milat

ESA POSTDOCTORAL AWARD

2009	Jeremy Smith	2015	Justin Chen & Stella Liong
2010	Sarah Spencer	2016	Ada Cheung & Jun Yang
2012	Kelly Walton	2017	Luba Sominsky & Jean Winter
2013	Radhika Seimon	2018	Ada Cheung & Moe Thuzar
2014	Lucia Gagliardi	2019	Rajini Sreenivasan & Sarah Lockie

ESA RESEARCH HIGHER DEGREE SCHOLARSHIP

2007	Priya Sumithran	2015	Cherie Au and Dilys Leung
2008	Lucia Gagliardi	2016	Dilys Leung
2009	Pui Shi (Tammy) Pang	2017	Angela Chen
2012	Tilenka Thynne	2018	Monica Kanki
2013	Carmela Caputo	2019	Sabashini Ramchand
2014	Dilys Leung		

RACP ENDOCRINE SOCIETY OF AUSTRALIA (ESA) RESEARCH ESTABLISHMENT FELLOWSHIP IN ENDOCRINOLOGY

2018 Mark Ng Tang Fui
2019 Jasna Aleksova
2020 Helen Barret

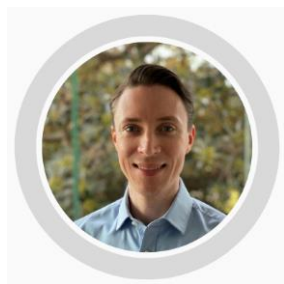
ESA HONORARY LIFE MEMBERS

Prof Leon Bach
Dr Robert Baxter
Dr Alan W. Blackshaw
Dr Hal D. Breidahl
Prof James B Brown
Prof Henry G Burger
Dr Robin A. Burston
Prof Donald P Cameron
Prof Christine Clarke
Prof Iain Clarke
Prof John P Coghlan
Prof Alex Cohen
Dr Ron I Cox
Prof David Curnow
Prof David De Kretser
Dr Ewan Downie
Prof Creswell J Eastman AM
Cliff W. Emmens
Dr Ken A. Ferguson
Prof Jock Findlay
Prof Peter Fuller
Prof John W Funder

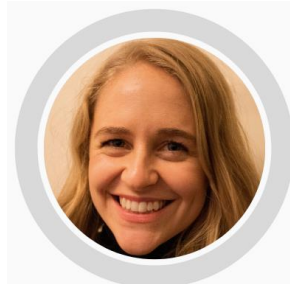
Prof Richard D. Gordon
Dr Ian B Hales
Prof David Handelsman
Dr Philip Harding
Prof Basil Hetzel
Dr Brian Hirschfeld
Prof Ken Ho
Bryan Hudson
Dr Ivan G Jarrett
Assoc Prof Stephen Judd
Prof Richard G Larkins
Prof Leslie Lazarus
Dr Thomas B. Lynch
Prof T John Martin
Dr Len Martin
Dr Frank I.R. Martin
Dr Ian C.A. Martin
Prof Ian R. McDonald
Dr Roger A. Melick
Prof Solomon Posen
Prof Marilyn B. Renfree
Prof Gail P. Risbridger

Prof Terry J. Robinson
Prof Ray Rodgers
Prof Rodney Shearman
Dr Evan Simpson
Prof Alfred W Steinbeck
Prof Jim Stockigt
Prof Roderick F.A. Strang
Prof Pincus Taft
Dr Ian D. Thomas
Prof Duncan J. Topliss
Prof Prof Victor Trikojus
Emeritus Prof John R Turtle
Prof Robert Vines
Dr Alan L. Wallace
Prof Garry Warne
Prof George Werther
Prof Norman Wettenhall
Prof F.H. Hales Wilson
Prof Marelyn Wintour-Coghlan
Dr Ken N. Wynne
Prof Jeffrey Zajac

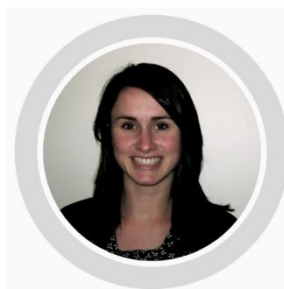
ESA CLINICAL REGISTRAR CASE PRESENTERS



Michael Bennett
Endocrinology Advanced Trainee, Department of Endocrinology, St Vincent's Hospital Sydney, New South Wales



Rebecca Foskey
Advanced Trainee, Endocrinology, Royal Melbourne Hospital, Victoria



Kate Flentje
Endocrinology Registrar, University Hospital Geelong, Victoria



Annabelle Warren
Endocrinology Registrar, Department of Endocrinology, Austin Health, Victoria

ESA AWARD WINNERS

ESA MID-CAREER AWARD WINNER



Dr Mitchell Lawrence

Senior Research Fellow, Monash University & Peter MacCallum Cancer Centre, Victoria, Australia

Dr Mitchell Lawrence is a Senior Research Fellow at Monash University and the Peter MacCallum Cancer Centre. He received his PhD from Queensland University of Technology in 2009 before joining the Prostate Cancer Research Group at Monash University in 2010. His expertise includes the use of patient-derived xenografts of prostate cancer for studying tumour biology and testing novel therapies. His research also focusses on the tumour microenvironment of prostate cancer, particularly the features of cancer-associated fibroblasts.

For these multidisciplinary studies, Dr Lawrence works with a diverse team of collaborators, including urologists, oncologists, pathologists, bioinformaticians, and patient advocates. He is the recipient of funding from the National Health and Medical Research Council (Early Career Fellowship, project grants), the Victorian Government through the Victorian Cancer Agency (Early Career Seed Grant, Mid-Career Fellowship), the Prostate Cancer Foundation of Australia (Movember Young Investigator Grant) and several philanthropic organisations.

ESA YOUNG INVESTIGATOR SCIENTIFIC ARTICLE AWARD WINNER

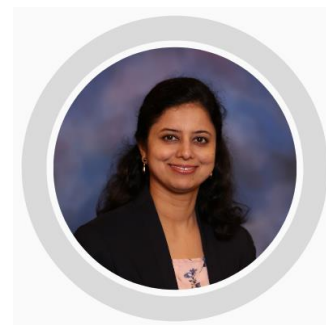


Dr Angela Lee

Royal Prince Alfred Hospital in Sydney, Australia

Dr Angela Lee is an Endocrinologist at the Royal Prince Alfred Hospital in Sydney, Australia. She graduated with BSc(Med) MBBS with 1st Class Honours at UNSW, and completed a Master of Medicine (Clinical Epidemiology) at the University of Sydney whilst undertaking Endocrinology Advanced Training at Royal Prince Alfred Hospital and Bankstown-Lidcombe Hospital. She is currently completing a PhD at the University of Sydney. Her clinical research studies explore the phenotype of type 1 diabetes with metabolic syndrome features and the effects of exercise on improving glycaemic control and cardiometabolic health. She is supported by an NHMRC postgraduate scholarship and JDRF Australia Top-Up. She has been engaged in teaching and research activities as a Clinical Lecturer at the University of Sydney.

ESA PAUL LEE PAUL LEE BEST ABSTRACT AWARD



Dr Nandini Shankara Narayana

Concord Repatriation General Hospital, NSW, Australia

Dr Nandini Shankara Narayana is a staff specialist at Andrology department, Concord Repatriation General Hospital. She obtained a PhD earlier this year, with thesis work in range of topics in Andrology at ANZAC Research Institute, University of Sydney. Her main project was on investigating the reversibility and time course of recovery of testicular function in men after cessation of use of non-prescribed androgens for body building. Her other areas of work include sperm cryostorage in men receiving gonadotoxic treatment, fertility in men post bone marrow transplantation, gonadotropin treatment for spermatogenic induction etc. She is also a Clinical Lecturer at the University of Sydney Medical School (Concord and Central Clinical Schools).

The ESA Paul Lee Best Abstract Award is supported by



Garvan Institute
of Medical Research

ESA HARRISON LECTURER 2020



Dr Mitchell A. Lazar

*Director, Institute For Diabetes, Obesity, And Metabolism
University Of Pennsylvania Perelman School Of Medicine
USA*

Dr. Mitchell Lazar is the Willard and Rhoda Ware Professor of Diabetes and Metabolic Diseases and Director of the Institute for Diabetes, Obesity, and Metabolism at the University of Pennsylvania. He received an S.B. degree in Chemistry from M.I.T., and a PhD in Neurosciences as well as an MD from Stanford University. He trained in Internal Medicine at Brigham and Women's Hospital and in Endocrinology at MGH before joining the Penn faculty.

Dr. Lazar discovered the circadian nuclear receptor REV-ERBa, as well as its heme ligand, transcriptional repression function, and interactions with corepressors and HDAC3. His work has demonstrated the fundamental importance of REV-ERBa in the physiology of circadian rhythms and metabolism. Dr. Lazar also discovered that PPAR γ is predominantly expressed in adipocytes, and has been a leader in understanding of PPAR γ function at a genome-wide level. He discovered resistin as a novel adipocyte hormone that impairs insulin action and first member of a new family of secreted molecules. Dr. Lazar has served on numerous editorial and scientific advisory boards and councils, and has received major awards from the NIH, the American Thyroid Association, the American Society for Clinical Investigation, and the Endocrine Society, as well as the Rolf Luft Award of the Karolinska Institute. He is also an elected member of the National Academy of Medicine, the American Academy of Arts and Sciences, and the National Academy of Sciences of the USA.

ESA SYMPOSIA SPEAKERS 2020

Mrs Sinead Archbold

*Queensland Paediatric Endocrine
Group, ACT*

Prof Louise Burrell

*University of Melbourne,
VIC*

Dr Ada Cheung

*The University of Melbourne,
VIC*

Prof Catherine Choong

*Princess Margaret Hospital,
WA*

Dr Ailie Connell

*Eastern Health & Western Health
and Blackburn Specialist Centre,
VIC*

Ms Maresa Derbyshire

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Mrs Sarah Louise Fostekew

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*Vertex Health,
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A/Prof Don McLeod

*Royal Brisbane & Women's
Hospital, QLD*

Prof Kevin Pflieger

*The University Of Western
Australia, WA*

Dr Oliver Rawashdeh

*Faculty of Medicine, The University
of Queensland, QLD*

Dr Nicholas Russell

*Austin Health,
VIC*

Dr Anna Story

*Northern Sydney Endocrine Centre,
NSW*

Dr Thomas Upton

*University of Bristol,
United Kingdom*

A/Prof Guy Warman

*The University of Auckland,
New Zealand*

Dr Jun Yang

*Hudson Institute of Medical
Research, VIC*

A/Prof Morag

*Young Baker Institute,
VIC*

Prof Margaret Zacharin

*Murdoch Children's Research
Institute,
VIC*

ESA CODE OF CONDUCT

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- Members and those attending conferences will refrain from any form of behaviour that may be perceived as intimidation, harassment, a threat or otherwise cause a person to fear for their safety.
- Members and those attending conferences will not engage in acts of bullying, aggression or violence.
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Saturday 31st October

Please note all sessions will run in Australian Eastern Daylight Savings Time (AEDT)

Welcome by the ESA President & Program Chair

8:30AM - 8:40AM

ESA President **Timothy Cole**
ESA Clinical Program Chair **Helen Barrett**

Clinical Registrar Cases

8:40AM - 10:30AM

Chairs: Diana Learoyd & Mathis Grossmann

8:40 AM

Michael Bennett

Seeking a basic solution for a complex case of periostitis *abs# 1*

9:05 AM

Rebecca Foskey

Not So Idiopathic SIADH *abs# 2*

9:30 AM

Annabelle M Warren

Not your typical atypical fracture *abs# 3*

9:55 AM

Kate Flentje

A novel approach to the treatment of ectopic ACTH-dependent Cushing's *abs# 4*

The Clinical Registrar Cases Session is supported by



Break, E-Poster Viewing & Sponsor Interaction

10:30AM - 11:00AM

The conference acknowledges the support of



Bryan Hudson Clinical Endocrinology Award Session

11:00AM - 12:00PM

Chairs: Belinda Henry & Bu Yeap

11:00 AM

Christopher A Muir

Thyroid immune related adverse events following immune checkpoint inhibitor treatment: a multi-centre, retrospective cohort study *abs# 5*

11:15 AM

Emily K Brooks

The copeptin response and adverse event profile to hypertonic saline in healthy volunteers - the effect of nausea and vomiting abs# 6

11:30 AM

Rebecca F Goldstein

A Pragmatic Lifestyle Intervention in Obese Pregnant Women to Limit Gestational Weight Gain *abs# 7*

11:45 AM

Ayanthi A Wijewardene

Changes in radioactive iodine management in thyroid cancer; a quaternary centre experience. *abs# 8*

Bryan Hudson Clinical Endocrinology Award Session is supported by



ESA-Novartis Junior Scientist Award Session

12:00PM - 1:00PM

Chairs: Belinda Henry & Bu Yeap

- 12:00 PM **Kevin Hung-Yueh Tsai**
Skin glucocorticoid metabolism in burn injury: novel approaches to reduce scarring *abs# 9*
- 12:15 PM **Nicholas Choo**
Using patient-derived models to systematically identify synergistic drug combinations for advanced prostate cancer *abs# 10*
- 12:30 PM **Nikita Bajaj**
GDF15 over-expression in brainstem increases brown fat thermogenesis, raises sensitivity to aversion and reduces preference for sweet taste *abs# 11*
- 12:45 PM **Pureum Kim**
The role of adrenal glucocorticoids in circadian resynchronisation and stability in mice *abs# 12*

ESA-Novartis Junior Scientist Award Session is supported by



Break, E-Poster Viewing & Sponsor Interaction

1:00PM - 2:00PM

The conference acknowledges the support of



"Year in" Talks & Q&A Panel Session

2:00PM - 3:55PM

Chairs: Frances Milat & Emily Mackenzie

- 2:00 PM **Louise Burrell**
ACE2 and SARS-CoV-2 *abs# 13*
- 2:25 PM **Jenny Gunton**
The Year of the Rat (2020) in Clinical Diabetes *abs# 14*
- 2:50 PM **Don McLeod**
Year in Thyroid *abs# 15*
- 3:15 PM **Catherine Choong**
Paediatric Endocrinology during the Covid-19 Pandemic *abs# 16*

Catherine Choong's Paediatrics presentation supported by



Break, E-Poster Viewing & Sponsor Interaction

3:40PM - 3:45PM

The conference acknowledges the support of



ESA Early Career Member Workshop - Careers in Endocrine Research and Clinical Practice

4:00PM - 5:15PM

Chairs: Elizabeth Johnstone & Sunita De Sousa

4:00 PM	Welcome and Introduction
4:05 PM	Prof Kevin Pflieger
4:15 PM	A/Prof Nicki Hodyl
4:25 PM	Dr Ada Cheung
4:35 PM	Dr Ailie Connell
4:45 PM	Dr Anna Story
4:55 PM	Panel discussion and questions from audience

ENSA Symposium

4:00PM - 5:30PM

Chairs: Venecia Willenberg, Shannon Reakes & Krisztina Toth

4:00 PM	Welcome and Introduction
4:05 PM	Maresa M Derbyshire Measuring glucose levels during an Insulin tolerance test: Can we improve the accuracy of results? <i>abs# 17</i>
4:30 PM	Sarah Louise Fostekew Crisis Situation: A story of Addison's and pregnancy <i>abs# 18</i>
4:55 PM	Sinead Archbold Newly appointed clinical nurse practitioner highlighting her role with case studies <i>abs# 19</i>

Sunday 1st November

Please note all sessions will run in Australian Eastern Daylight Savings Time (AEDT)

Keeping pace with the dynamic world in managing adult patients with type 2 diabetes

7:30AM - 8:15AM


Chair: Brad Curtis

7:30 AM **Welcome & session outline**

7:35 AM **Prof Jonathan Shaw**

Keeping pace with the dynamic world in managing adult patients with type 2 diabetes *abs# 146*

8:05 AM **Live Q&A**

The conference acknowledges the support of 

Circadian Rhythms Symposium

8:30AM - 10:00AM


Chairs: Helen Barrett & Mathis Grossmann

8:30 AM **Oliver Rawashdeh**

Circadian, clock genes, and general metabolism *abs# 20*

8:50 AM **Thomas Upton**

Dynamic hormone diagnostics: Novel methods and new insights *abs# 21*

Thomas Upton's Presentation supported by  **IPSEN** | RARE DISEASES
Innovation for patient care

9:10 AM **Guy Warman**

Exploring the effect of general anaesthesia on patients post-operative sleep and circadian rhythms *abs# 22*

9:30 AM **Morag Young**

Adrenal steroids and circadian clock signalling in the heart *abs# 23*

Best of the Best E-Poster Session

10:00AM - 10:30AM

Chairs: Ada Cheung

10:00 AM **Nandini Shankara Narayana**

Recovery of Male Reproductive Function Following Prolonged Injectable Testosterone Undecanoate Treatment *abs# 24*

10:03 AM **Jessica A Grieger**

Metabolic syndrome in pregnancy and its association with child telomere length *abs# 25*

10:06 AM **Natassia Rodrigo**

Proteomic signatures in early pregnancy to detect women at increased risk of gestational diabetes *abs# 26*

- 10:09 AM **Mark Ng Tang Fui**
Effect of Testosterone treatment on bone microarchitecture and bone mineral density in men: a two-year randomised clinical trial *abs# 27*
- 10:12 AM **Angela Sheu**
Fractures in T2DM independently predicted by insulin use and vascular complications (FIELD study) *abs# 28*
- 10:15 AM **Varun S Venkatesh**
Androgen action via the androgen receptor in bone marrow progenitor cells confers protection from diet-induced obesity in male mice. *abs# 29*
- 10:18 AM **Georgia S Clarke**
Plasticity of gastric satiety signals during pregnancy and in response to pregnancy hormones. *abs# 30*
- 10:21 AM **Gregory S Ong**
Novel mineralocorticoid receptor signalling mechanisms and the regulation of inflammation *abs# 31*
- 10:24 AM **Ebtihal Mustafa**
TFAP-2 β interacts with AR to determine the phenotype and growth of molecular apocrine breast cancer *abs# 32*
- 10:27 AM **Valentina Rodriguez Paris**
Dissecting the interplay between diet and PCOS on gut microbiota in a hyperandrogenic PCOS mouse model *abs# 33*

Break, E-Poster Viewing & Sponsor Interaction

10:30AM - 11:00AM

The conference acknowledges the support of



ESA Young Investigator Scientific Article Award

11:00AM - 11:20AM

Chairs: Elizabeth Johnstone & Sunita De Sousa

- 11:00 AM **Angela S Lee**
Effect of high-intensity interval training on glycaemic control in adults with type 1 diabetes and overweight or obesity *abs# 34*

ESA Mid-Career Research Award

11:20AM - 11:40AM

Chairs: Elizabeth Johnstone & Sunita De Sousa

- 11:20 AM **Mitchell G Lawrence**
A mouse hospital for identifying new combination therapies for prostate cancer *abs# 35*

Meet the Expert Sessions

11:40AM - 1:00PM

Chairs: Ann McCormack & Shane Hamblin

11:40 AM

Nicholas Russell

Inpatient hyponatraemia: beyond fluid restriction *abs# 36*

12:05 PM

Jun Yang

Dilemmas in the diagnosis and management of primary aldosteronism *abs# 37*

12:30 PM

Margaret Zacharin

Congenital Adrenal Hyperplasia (CAH) *abs# 38*

Margaret Zacharin's Presentation supported by



Break, E-Poster Viewing & Sponsor Interaction

1:00PM - 1:30PM

The conference acknowledges the support of



ESA AGM

1:30PM - 2:00PM

Harrison Plenary Lecture

2:00PM - 3:00PM

Chairs: Timothy Cole & Bu Yeap

2:00 PM

Mitchell A Lazar

Nuclear Receptors, Circadian Rhythms, and Metabolism *abs# 39*

ESA Awards and Meeting Close + Social Drinks at home

3:00PM - 3:45PM

Chairs: Timothy Cole & Bu Yeap

Best of the Best E-Posters

Nandini Shankara Narayana

Recovery of Male Reproductive Function Following Prolonged Injectable Testosterone Undecanoate Treatment *abs# 24*

Jessica A Grieger

Metabolic syndrome in pregnancy and its association with child telomere length *abs# 25*

Natassia Rodrigo

Proteomic signatures in early pregnancy to detect women at increased risk of gestational diabetes *abs# 26*

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Androgen action via the androgen receptor in bone marrow progenitor cells confers protection from diet-induced obesity in male mice. *abs# 29*

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Novel mineralocorticoid receptor signalling mechanisms and the regulation of inflammation *abs# 31*

Ebtihal Mustafa

TFAP-2 β interacts with AR to determine the phenotype and growth of molecular apocrine breast cancer *abs# 32*

Valentina Rodriguez Paris

Dissecting the interplay between diet and PCOS on gut microbiota in a hyperandrogenic PCOS mouse model *abs# 33*

Basic Science E-Posters

Caroline Bachmeier

The holy triad *abs# 40*

Sarah M Bernhardt

Risk of bias against premenopausal breast cancer patients in gene expression-based precision medicine *abs# 41*

Michael G Bertram

Environmental contamination by a widespread endocrine-disrupting steroid alters reproductive behaviour in aquatic wildlife *abs# 42*

Jennifer Chen

Mice with muscle stem cell (satellite cell) deletion of the vitamin D receptor (sVDR) are weak and have small myocytes *abs# 43*

Charmaine Cheung

Impact of high fat diet on human islet function *abs# 44*

Abby AC Choo

Development of a high throughput total inhibin assay using mass spectrometry *abs# 45*

Amita G Ghadge

The impact of pubertal adipose tissue deposition on mammary cancer development during adulthood *abs# 46*

Zhengxiang Huang

Suppression of hyperinsulinemia by diazoxide restores insulin-growth hormone balance and improves substrate and energy metabolism in obese mice *abs# 47*

Elizabeth KM Johnstone

Heteromerisation of the angiotensin II type 1 and type 2 receptor *abs# 48*

Monica Kanki

Time of day regulates renal mineralocorticoid receptor transcriptional control of electrolyte balance *abs# 49*

Nykola L Kent

Exposing the mechanistic link between hypothyroidism in pregnancy and gestational diabetes mellitus *abs# 50*

Natalie L Lister

Proteomic profiling of hormone-dependent prostate cancer identifies LOXL2 as a potential therapeutic target in the tumour microenvironment. *abs# 51*

Sarah H Lockie

Targeting central feeding circuits to improve outcomes in cancer cachexia *abs# 52*

Maria B Marinova

NMN supplementation rescues fertility and bone strength in chemotherapy-treated mice *abs# 53*

Trang Nguyen

Gene expression profiling of PPAR γ :RXR α activation in a human ovarian granulosa cell line using RNA-seq transcriptome analysis *abs# 54*

Natassia Rodrigo

Preconception weight modulation better optimises maternal metabolic outcomes compared to intrapartum weight modulation in late gestation mice. *abs# 55*

Luba Sominsky

Microglia as the central regulators of circadian rhythms *abs# 56*

Yue Wang

Development of long-acting human growth hormone antagonists by solid-phase site-specific PEGylation *abs# 57*

Sin Dee Yap

Bone Health Among Indigenous Population Post Renal Transplant in Central Australia *abs# 58*

Clinical E-Posters

Azni Abdul-Wahab

Determining Vitamin D Status: Analytical Variability Between Available Assays *abs# 59*

Minoli V Abeysekera

Ampullary gangliocytic paraganglioma: a rare but important entity *abs# 60*

Laura E Adams

A rare neuroendocrine cause for severe and refractory hypercalcaemia *abs# 61*

Talib A Prof Al-Jumaily

Endocrine Adverse Events Associated with Immune Checkpoint Blockade used for treatment of solid tumours *abs# 62*

Arsalan Anees

The decline of TSH Receptor Autoantibody (TRAb) levels post Total Thyroidectomy in Graves Ophthalmopathy: A meta-analysis and systematic review *abs# 63*

Kenrick Blaker

Relapse of ketosis prone diabetes mellitus: a case report *abs# 64*

Min Ru Chee

Prospective screening for Primary Aldosteronism in patients with Suspected Obstructive Sleep Apnoea *abs# 65*

Kay Hau Choy

Management of glucocorticoid-induced hyperglycaemia in in-patients with acute exacerbation of chronic obstructive pulmonary disease – a retrospective audit *abs# 66*

Kay Hau Choy

Zoledronic acid-associated acute tubular necrosis *abs# 67*

Lucy Collins

FGF23-mediated hypophosphataemia following intravenous iron administration: a case series *abs# 68*

Ljiljana Crnobrnja

Glycaemic disorders complicating insulin-dextrose treatment of hyperkalaemia *abs# 69*

Jessica Deitch

Sarcoidosis with hypercalcaemia in a patient with multiple sclerosis previously treated with alemtuzumab *abs# 70*

Katrina Festejo

Enhanced Recovery after Surgery (ERAS) protocol reduces length of stay in Type 2 Diabetes Mellitus patients undergoing elective colorectal surgery *abs# 71*

Prishila Fookeerah

Pit-1: A useful discriminative marker in prolactin immunonegative pituitary adenomas associated with hyperprolactinaemia *abs# 72*

Prishila Fookeerah

O-vary unusual case of metastatic thyroid cancer *abs# 73*

Thomas Goubar

Relative hypotension increases adrenal crisis detection in aging patients *abs# 74*

David Handelsman

Diagnosis of ovarian hyperthecosis by ovarian vein sampling with LCMS steroid profiling and treatment with a pure GnRH antagonist *abs# 75*

Hikaru Hashimura

Adrenocortical carcinomas in Multiple Endocrine Neoplasia Type 1 - The Tasmanian Experience *abs# 76*

Ashwini Kannan

Objective reporting of neuroendocrine differentiation in hormone naïve prostate cancer correlates with poor outcomes: A systematic review and meta-analysis *abs# 77*

Albert Kim

Atypical presentations of FHH– not so benign? *abs# 78*

Veli Kiriakova

Glucose Tolerance Test Induced Hypoglycaemia *abs# 79*

Sneha Krishna

Audit of the diagnosis and management of hypertriglycaedemia-induced pancreatitis *abs# 80*

Sneha Krishna

Audit of the use of short synacthen test *abs# 81*

Johanna Kuehn

The *Bee* Family, SDHB-related Pheochromocytoma, Paraganglioma and Pituitary Adenoma *abs# 82*

Hyungju Kwon

The impact of multifocality on the recurrence of papillary thyroid carcinoma *abs# 83*

Hyungju Kwon

The prognostic impact of multifocality in clinical outcomes of papillary thyroid carcinoma: a systematic review and meta-analysis *abs# 84*

Annabel Lee

Glucometric analysis of inpatient hypoglycaemia at Concord Hospital *abs# 85*

Annabel Lee

Inpatient hypoglycaemia management and follow-up care *abs# 86*

Bon Hyang Lee

A Case of Ipilimumab and Nivolumab Induced Multiple Endocrinopathies *abs# 87*

Sarah Lewis

A case of clinical and biochemical manifestations of undiagnosed Hashimoto's thyroiditis *abs# 88*

Renata Libianto

A multi-centre study of neutrophil-to-lymphocyte ratio in primary aldosteronism *abs# 89*

Beryl Lin

Dose-Dependent Response to Long-term Clomiphene Citrate in Male Functional Hypogonadotropic Hypogonadism: A Case study *abs# 90*

Mina Mohammad Ebrahim

Experience with sodium–glucose co-transporter 2 inhibitors initiation in a public hospital diabetes outpatient population- Extension of a previous study *abs# 91*

Ashish Munsif

Osteopetrosis with a potentially novel genetic mutation *abs# 92*

Ashish Munsif

Plasmapheresis induced hypocalcaemia in a cystic fibrosis patient with bilateral lung transplants *abs# 93*

Elisabeth Ng

Paraganglioma and GIST tumours (Carney-Stratakis syndrome) in a young man *abs# 94*

Maleesa Pathirana

Gestational diabetes and future cardiovascular disease risk in women: A systematic review and meta-analysis. *abs# 95*

Kavindra N Ratnaweera

Clotting factors & its associations in patients with hyperparathyroidism – Evidence from a systematic review & meta-analysis. *abs# 96*

Karen Rothacker

Parathyroid Localisation Imaging in Primary Hyperparathyroidism: A Tertiary Hospital Audit *abs# 97*

Shahjada Dr Selim

Association of Vitamin D Deficiency with Erectile Dysfunction among Men with Type 2 Diabetes *abs# 98*

Nandini Shankara-Narayana

Duration of Action of Injectable Testosterone Undecanoate *abs# 99*

Chelsea Tan

Evaluation of maternal and neonatal outcomes in patients with gestational and pre-gestational diabetes receiving antenatal corticosteroids *abs# 100*

Chau Thien Tay

“Oh, this is 20 years too late!”: a qualitative evaluation of an integrated polycystic ovary syndrome service. *abs# 101*

Moe Thuzar

Relationship between the Hypothalamic-Pituitary-Adrenocortical axis activity and the characteristics of Aldosterone-producing adenomas *abs# 102*

Quynh Truong

Clival Prolactinoma Masquerading as a Chordoma *abs# 103*

Mawson Wang

Cross-sectional determinants of hip and spine bone mineral density (BMD) and trabecular bone score (TBS) in a postpartum gestational diabetes (GDM) cohort. *abs# 104*

Mawson Wang

Ectopic insulin-secretion by a large cell neuroendocrine carcinoma of the cervix *abs# 105*

Mawson Wang

Drug Rash with Eosinophilia and Systemic Symptoms (DRESS) followed by thyrotoxicosis and eosinophilic myocarditis *abs# 106*

Ray Wang

Correlating technetium-99m sestamibi thyroid scintigraphy with histopathology in amiodarone-induced thyrotoxicosis *abs# 107*

Lisa Ward

Harrowing hypoglycaemia: Diagnosing an IGF-2 secreting tumour *abs# 108*

Lisa Ward

A stormy course - Thyroid storm and plasma exchange *abs# 109*

Yu-Fang Wu

Focal nesidioblastosis in an adult – a rare neuroendocrine presentation *abs# 110*

Jun Yang

Correlation between the aldosterone renin ratio and blood pressure in young adulthood - a longitudinal study *abs# 111*

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Hypoaldosteronism post-adrenalectomy for primary aldosteronism *abs# 112*

Caroline Bachmeier

Mysteriously missing ACTH *abs# 113*

Shananthan Balachandran

Adrenals: Can't Live With Them, Can Live Without Them *abs# 114*

Emma Boehm

Phaeochromocytoma-induced cardiomyopathy *abs# 115*

Emma Boehm

An unusual cause of parathyroid hormone-independent hypercalcaemia and hypercalciuria *abs# 116*

Amelia R Fernandes

Familial partial lipodystrophy associated with an unknown variant of the PTRF gene *abs# 117*

Ryan Endall

'One of these things is not like the other': Adrenal venous sampling in a patient with ACTH-independent Cushing's syndrome and bilateral adrenal adenomas *abs# 118*

Ruth Frampton

Connipion, Connundrum, Confusion *abs# 119*

Gaurav Ghosh

Hypogonadotrophic hypogonadism and growth hormone deficiency in a man treated for Fanconi Anaemia *abs# 120*

Louise S Goodall

Hidden malignancies in large follicular thyroid neoplasms *abs# 121*

Debra DM Gordon

Was pain relief worth it? *abs# 122*

Su Win Htike

A clinically silent but aggressive, poorly differentiated Pit-1 lineage pituitary macroadenoma *abs# 123*

Anojian Koneshamoorthy

Genetic Hypoglycaemia: A Molecular Approach *abs# 124*

Dananti Kusumawindani

Hand Contracture And Xanthoma in Very Severe Hypertriglyceridemia and Diabetes Mellitus: a Case Report *abs# 125*

Sarah Lewis

A case of clinical and biochemical manifestations of undiagnosed Hashimoto's thyroiditis *abs# 126*

Jianbin Liu

Suboptimal blood pressure control in medically treated bilateral primary aldosteronism *abs# 127*

Jack Lockett

Craniotomy or Caution: COVID-19 or Keep Calm and Carry On *abs# 128*

Varun Manoharan

Agenesis of the dorsal pancreas: a rare incidental finding which is amongst the differential diagnoses for abdominal pain and diabetes mellitus. *abs# 129*

Jack Morris

Case report: Cushing's syndrome due to adrenocortical carcinoma during pregnancy *abs# 130*

Elisabeth Ng

Scratch beneath the surface to see why "mild" type 2 diabetes became a life-threatening diabetes emergency *abs# 131*

Huajing Ni

Tumour induced osteomalacia-the mystery illness beyond aches, pains and depression *abs# 132*

Ryan Petrucci

Recurrent hyperparathyroidism following successful four gland parathyroidectomy and normalisation of pth in a renal transplant patient *abs# 133*

Ushank Ranasinghe

A Painful Family *abs# 134*

Ushank Ranasinghe

An unusual case of cardiomyopathy *abs# 135*

Ramesh Ranjan

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Lisa M Raven

Gender affirming hormones - how much is too much of a good thing? *abs# 137*

Mayurapriya Raviskanthan

Looking a little too tanned *abs# 138*

Alanna Tan

Pituitary abscess from a Rathke's cleft cyst: A case report *abs# 139*

Shelley Vance

Adrenal nocardia in an immunocompetent patient *abs# 140*

Sneha Vidyasagar

New Treatment Options Post Craniopharyngioma Resection: Glycogen Like Peptide 1 receptor agonist, Growth Hormone and Oxytocin. *abs# 141*

Emma Whittle

A case of severe hypervitaminosis D with mild hypercalcaemia *abs# 142*

Mimi Wong

Not a Bad Accident After All *abs# 143*

Jasmine Zhu

Epstein-Barr virus-associated smooth muscle tumour in the pituitary gland *abs# 144*

Jasmine J Zhu

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