



TRANSLATIONAL SCIENCE PROGRAM

SUNDAY 25 AUGUST

- 8:00am - 10:00am** **TRANSLATIONAL SCIENCE OPENING**
 Eureka Room 1
 Chair(s): **Assoc Prof Niall Corcoran and Professor Chris Hovens**
- 8:00am Welcome and Introduction
Assoc Prof Niall Corcoran
- 8:05am Germline-Somatic Epigenomic Interactions in Prostate Cancer
Professor Paul Boutros
- 8:25am New Insights Into Why Tumors are Resistant to all Chemotherapies
Professor Kenneth Pienta
- 8:45am Environmental Control of Tumour Cell Dormancy and Disease Progression
Professor Peter Croucher
- 9:05am Neoadjuvant Super Castration Resistance Mechanisms
Assoc Prof Niall Corcoran
- 9:25am African Prostate Cancer Genomics
Professor Vanessa Hayes
- 9:45am The Role of Mismatch Repair Genes in Prostate Cancer
Professor Chris Hovens
- 10:00am - 10:30am** **MORNING TEA**
 Goldfields Exhibition
- 10:30am - 12:30pm** **TRANSLATIONAL SCIENCE - LIPIDOMICS AND PROSTATE CANCER**
 Eureka Room 1
 Chair(s): **Professor Lisa Butler**
- 10:30am Lipidomics and Prostate Cancer (MRTA)
Professor Lisa Butler (The University of Adelaide)
- 10:35am Targetable Alterations to Membrane Phospholipids in Clinical Prostate Tumours
Professor Lisa Butler (The University of Adelaide)
- 11:00am Cholesteryl Ester Metabolism and Prostate Cancer Progression
Dr Andrew Hoy (The University of Sydney)
- 11:25am Targeting Fatty Acid Oxidation Sensitizes Prostate Cancer Cells to HSP90 Inhibition
Dr Zeyad Nassar (The University of Adelaide)
- 11:50am Prognostic Value of the Circulating Lipidome
Professor Lisa Horvath (Chris O'Brien Lifehouse)
- 12:15pm Discussion

12:30pm - 1:30pm **LUNCH**
Goldfields Exhibition

12:30pm - 1:30pm **COME AND SEE ONE OF THE AUSTRALIAN PROSTATE CENTRE EXERCISE GROUPS IN ACTION!**
(Combined with: Clinical Urology, Nursing & Allied Health)
Chair(s): **Ms Kimberley Lyford**

These men participate in regular exercise groups and are undergoing ADT, Chemotherapy and preoperative conditioning for their upcoming RARP. Have a chat to them to find out how they have benefited from these sessions. Chat with our Exercise Physiologist about how exercise will benefit your patients.

1:45pm - 3:45pm **TRANSLATIONAL SCIENCE - INVITED PRESENTATIONS**
Eureka Room 1
Chair(s): **Professor Lisa Butler and Professor Vanessa Hayes**

1:45pm Molecular Drivers of High-Grade Lethal Prostate Cancer
Professor Edward Schaeffer (Northwestern University)

2:05pm The Role of Tumor Associated Macrophages in Cancer
Professor Kenneth Pienta (Johns Hopkins University, School of Medicine)

2:25pm The Influence of Hypoxia on Localised Prostate Cancer Evolution
Professor Paul Boutros (University of California, Los Angeles)

2:45pm Prostate Cancer Genetics - Is New Knowledge Changing Practice?
Professor Freddie Hamdy (University of Oxford)

3:05pm Dissection of Prostate Tumour, Stroma and Immune Transcriptional Components & Disease Progression
Dr Stefano Mangiola (Melbourne University)

3:25pm Using Patient-derived Models to Identify Combination Therapies for CRPC
Dr Mitchell Lawrence (Monash University)

3:45pm - 4:15pm **AFTERNOON TEA**
Goldfields Exhibition

4:15pm - 5:45pm **TRANSLATIONAL SCIENCE - MODERATED POSTER SESSION**
Eureka Room 1
Chair(s): **Assoc Prof Niall Corcoran and Professor Chris Hovens**

4:15pm Prognostic value of a whole blood androgen receptor splice variant-based gene signature in metastatic castration-resistant prostate cancer
Dr Edmond Kwan (Monash University)

4:20pm Sex hormone-binding globulin (SHBG) as a marker of aggressive prostate cancer
Dr Prabin Gyawali (The University of Adelaide)

4:25pm MiCheck Performance - comparator trial of MiCheck with PHI, % free PSA and PSA - the impact on decision making for prostate biopsy
Dr Bradley Walsh (Minomic International)

4:30pm Prostate Tissue Image Analysis and Classification of Gleason Grading using Machine Learning Technique
Mr Subrata Bhattacharjee (Inje University)

MODERATED POSTER SESSION - continued

- 4:35pm Outcomes of the Miltuximab First in Human Trial and Proposed Study Design for a Phase 1 Trial 89Zr/177Lu theranostic trial
Dr Douglas Campbell (Minomic International Ltd)
- 4:40pm Texture Analysis and Support Vector Machine Classification of Prostate Tissue Images
Miss Cho-Hee Kim (Inje University)
- 4:45pm Germline genetic variation in DNA repair genes: insight from an Australian case-case study of aggressive prostate cancer
Dr Tu Nguyen-Dumont (Monash University)
- 4:50pm MicroRNA-3162-5p-Mediated Crosstalk between Kallikrein Family Members Including Prostate-Specific Antigen in Prostate Cancer.
Assoc Prof Jyotsna Batra (Queensland University of Technology)
- 4:55pm Prostate cancer in Africa - why should Asia-Pacific care?
Professor Vanessa Hayes (Garvan Institute of Medical Research)
- 5:00pm CyberKnife Robotic Radiotherapy for Localised Prostate Cancer
Dr Trishna Bhalla (Sir Charles Gairdner Hospital)
- 5:05pm Nanoparticle assisted small molecule delivery to target prostate cancer metabolism
Mrs Zeinab Kooshan (Institute of Health and Biomedical Innovation)
- 5:10pm Introduction of Moderated Posters
Professor Chris Hovens
- 5:15pm Clinical and Molecular Investigation of Ductal Variant Prostate Carcinoma
Dr Ken Chow (University of Melbourne)
- 5:20pm Discussion

- 7:00pm - 11:30pm **CONFERENCE GALA DINNER**
(Combined with: Clinical Urology, Nursing & Allied Health)
The Aviary at Crown

Celebrate our 20th Anniversary Dinner at the stunning Aviary on the rooftop at Crown. Join us for an evening of fine food and wine with entertainment. The dinner will include the presentation of the Patrick C Walsh Lecture and announcement of the Conference Poster Award Winners.

MONDAY 26 AUGUST

- 8:30am - 10:30am **TRANSLATIONAL SCIENCE PCRA - PRECEPT**
Chair(s): **Assoc Prof Niall Corcoran and Professor Chris Hovens**
- 8:30am Overview and Introduction of PRECEPT
Assoc Prof Niall Corcoran (The University of Melbourne)
- 8:45am Computational Approaches to the Identification of Prognostic/Predictive Signatures in Disease
Professor Tony Papenfuss (Walter & Eliza Hall Institute)
- 9:00am Combimets
Professor Chris Hovens (The University of Melbourne)
- 9:15am Prognostic Signatures in Localised Prostate Cancer
Professor Paul Boutros (University of California, Los Angeles)
- 9:30am Patient Preferences & Healthcare Resource Implications of Biomarker based Risk-stratification in Early Stage Prostate Cancer
Professor Martin Ijzerman (The University of Melbourne)
- 9:45am Tumour-intrinsic Immune Signals in Dictating Metastasis
Assoc Prof Belinda Parker (Latrobe University)

- 10:00am A Unique Prostate Cancer Genomic Resource from Africa
Professor Vanessa Hayes (Garvan Institute of Medical Research)
- 10:15am Discussion
- 10:30am - 11:00am MORNING TEA**
Goldfields Exhibition
- 11:00am - 12:45pm TRANSLATIONAL SCIENCE - ENZA-P/LU-PSMA**
Eureka Room 1
Chair(s): **Assoc Prof Louise Emmett**
- 11:00am Overview and Introduction of ENZA
Assoc Prof Louise Emmett (St Vincent's Hospital Sydney)
- 11:40am Genomic & Proteomic Translational Components - Single Cell RNA Sequencing, CTC and ctDNA
Assoc Prof Alex Swarbrick (Garvan Institute of Medical Research)
- 12:05pm Radiomics & Quantitation
Dr Martin Ebert (University of Western Australia)
- 12:30pm Discussion
- 12:45pm - 1:45pm LUNCH**
Goldfields Exhibition
- 1:45pm - 3:45pm TRANSLATIONAL SCIENCE - UPFRONT PSMA ALLIANCE**
Eureka Room 1
Chair(s): **Assoc Prof Arun Azad**
- 1:45pm Upfront PSMA Movember / Cancer Australia PCRA + #UpFrontPSMA trial
Assoc Prof Arun Azad (Peter MacCallum Cancer Centre)
- 2:15pm Circulating Biomarker studies in Advanced Prostate Cancer
Dr Edmond Kwan (Monash University)
- 2:35pm A Cost-effectiveness Analysis of Systemic Therapy for Metastatic Hormone-sensitive Prostate Cancer
Dr Niranjana Saithianathan (Peter MacCallum Cancer Centre)
- 2:55pm The #LuTectomy Trial: Lu-PSMA Prior to Radical Prostatectomy
Dr Renu Eapen (Peter MacCallum Cancer Centre)
- 3:15pm Testing the Potential of CAR T Cell Therapy in Prostate Cancer
Dr Renea Taylor (Peter MacCallum Cancer Centre)
- 3:35pm Discussion
- 3:45pm - 4:15pm AFTERNOON TEA**
(Combined with: Clinical Urology, Nursing & Allied Health)
Goldfields Exhibition
- 4:15pm - 5:30pm TRANSLATIONAL SCIENCE - PCRA/MRTA DISCUSSION (CLOSED SESSION)**
Eureka Room 1
Chair(s): **Assoc Prof Niall Corcoran**
Discussion