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 Milntuximab 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 with 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 Combimetabolites
   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 ENZAp  
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 Niranjan Saithianathen (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