



Theranostics: **Hot Science, Cold Facts**

an ANZSNM Physics SIG and RPS SIG Joint Symposium

Friday 14th February 2014, 8:30am - 5:00pm

John Lindell Lecture Theatre,

Level 4, Lance Townsend Building, Austin Hospital, Studley Road, Heidelberg (Melbourne)

The use of complementary molecular targeting vectors for radionuclide imaging and therapy defines the field of nuclear medicine Theranostics. This growth area of nuclear medicine has great potential, but as simple as Theranostics may first appear, this field is complex and full of knowledge traps. This symposium brings together a national collection of internationally recognised scientists and clinicians who will both introduce and detail this important area of clinical practice.

The ANZSNM Physics SIG and ANZSNM Radiopharmaceutical Sciences SIG invite all nuclear medicine practitioners and researchers to Melbourne for this exciting symposium. **This symposium is approved for 6.5 hours CPD.**

Registration Form

Surname: First name:

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Please **circle** the appropriate option. All costs include GST:

Full Registration **\$95.00**

F/T Student (student ID required) **\$50.00**

Please tick here if you **don't** want your attendance recorded for the sponsors:

Please note that the registration cost includes lunch and break refreshments

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Please complete your registration as soon as possible, but by Friday 7 February 2014 at the latest.

This document will be a tax invoice for GST when you make a payment

Symposium Programme

08:00 **Registration and Coffee**

08.45 **Session 1 Theranostics: The Elegance of Therapeutic Pairs**

Chairs: Andrew Scott and TBC

Combination radiopeptide chemotherapy for the control of gastro-entero-pancreatic neuroendocrine tumours

Professor Harvey Turner, Fremantle Hospital, Fremantle.

High impact clinical applications of somatostatin theranostics

Associate Professor Michael Hofman, Peter MacCallum Cancer Centre, Melbourne

Copper-based radiopharmaceuticals – A next generation theranostic?

Associate Professor Paul Donnelly, Bio 21, Melbourne

10:15 **Coffee break**

10:45 **Session 2 ⁶⁸Ga and ¹⁷⁷Lu: The New Kids on the Block**

Chairs: Jennifer Guille and Peter Roselt

Raw materials: Gallium-68 and Lutetium-177 sources

Dr Stephen Taylor, Royal Brisbane and Women's Hospital, Brisbane

Metal chemistry, chelation and radiolabelling

Associate Professor Andrew Katsifis, RPA, Sydney

Gallium radiopharmaceutical chemistry

Dr Nigel Lengkeek, ANSTO, Sydney

Lutetium radiopharmaceutical chemistry

Peter Eu, Peter MacCallum Cancer Centre, Melbourne

Quality control considerations – What guidance is available?

Gordon Chan, Austin Hospital, Melbourne

12:45 **Lunch – lunch will be provided on-site**

13:30 **Session 3 Theranostic Physics: Imaging, Dosimetry, and Safety**

Chairs: Darin O'Keefe and Dale Bailey

Quantitative imaging – What are the options?

Dr Graeme O'Keefe, Austin Hospital, Melbourne

Personalised image-based dosimetry in Lu-177 and Y-90 therapy

Dr Price Jackson, Peter MacCallum Cancer Centre, Melbourne

Radiation safety in theranostics

Dr Phillip Calais, Fremantle Hospital, Fremantle

Too many patients – Not enough gallium

David Binns, Peter MacCallum Cancer Centre, Melbourne

15.00 **Coffee break**

15:30

Session 4: Delivering Theranostics – Experience from Across Australia

Chairs: Rodney Hicks and Graeme O'Keefe

Presenters

TBC, Royal Brisbane and Women's Hospital, Brisbane

The Australian Supply of Lu-177 n.c.a.

Dr Jane Langford, ANSTO, Sydney

Integrating Image-Based Dosimetry into the Clinical Workflow: Experience with Lu-177 Dotatate Therapy

Dr Erin McKay, St George Hospital, Sydney

Jennifer Guille, Prince of Wales Hospital, Sydney

⁶⁸Ga-DOTATATE: Synthesis and Quality Control Measures at Peter Mac

Dr Peter Roselt, Peter MacCallum Cancer Centre, Melbourne

Dr John Sachinidis, Austin Hospital, Melbourne

Synthesis of ⁶⁸Ga-Octreotate using the ITG ⁶⁸Ge/⁶⁸Ga generator and Manual Fluidic Labelling Module: Perth's experience

Dr Laurence Morandea, Sir Charles Gairdner Hospital, Perth

Panel Discussion

17:00

Close and refreshments

About the venue

The symposium is being held in the John Lindell Lecture Theatre, Level 4, Lance Townsend Building, Austin Hospital, Studley Road, Heidelberg (Melbourne).

Fly in for the day or make the most of Valentine's Day and stay the weekend with your partner to sample Melbourne's fantastic hospitality. There are various accommodation options available around the hospital or stay in the central city. Allow 45 minutes to travel from the airport to the Austin Hospital. From the CBD, travel by train from Flinders Street Station via the Hurstbridge Line to Heidelberg Station and allow 20-30 mins (depending on whether you catch the express).

