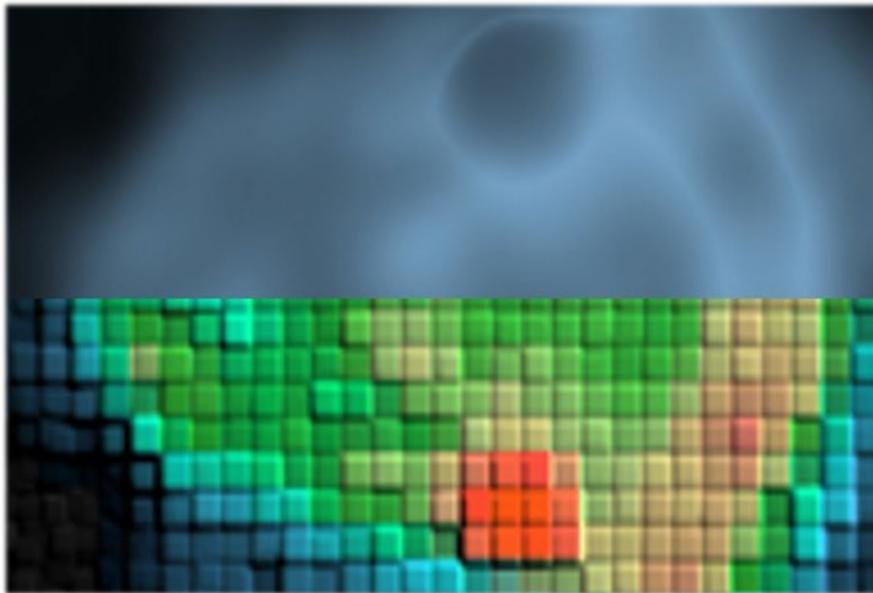


BIOLOGICALLY GUIDED RADIATION THERAPY SYMPOSIUM 2026



Thursday 19th – Friday 20th February 2026
Charles Perkins Auditorium, University of Sydney

CPD Endorsed by ACPSEM and ASMIRT



Kindly sponsored by:

GOLD SPONSOR

varian

A Siemens Healthineers Company

SILVER SPONSORS

MedAustron 

**Sydney Clinical
Imaging Network**

**SIEMENS
Healthineers** 

BRONZE SPONSORS

**OXFORD
SCIENTIFIC**


UNIVERSITY OF
NEWCASTLE
AUSTRALIA

MARK HUGHES
FOUNDATION
CENTRE FOR
BRAIN CANCER
RESEARCH

alphaXRT
First for excellence in radiation technology

Alorium

Day 1 Educational Session

Thursday 19th February 2026

9:00 – 9:30	Registration
9:30 – 9:40	Opening <i>Acknowledgement of Country</i> Prof. Annette Haworth & Rachel Stensmyr
9:40 – 9:50	Introduction What is BgRT? Prof Annette Haworth (<i>The University of Sydney</i>)
9:50 – 11:20	Radiobiology Chairs: Prof Jeremy Booth and Prof Joerg Lehmann
9:50	Basic principles of radiobiology – Mechanisms and models of radiation response Prof Martin Ebert (<i>University of Western Australia</i>)
10:15	Dose Response Modelling (TCP/NTCP) Prof Ane Appelt (<i>Rigshospitalet & Technical University of Denmark</i>)
10:45	Hypoxia in the Tumour Microenvironment: Evolution, Adaptation, and Radioresistance Dr Kristina Cook (<i>Principal Investigator, Westmead Institute for Medical Research and Honorary Senior Lecturer, University of Sydney</i>)
11:20 – 11:45	Morning tea
11:45 – 12:55	Imaging Part 1 Chairs: Dr Amy Walker and Dr Erin Wang
11:45	Introduction to quantitative MRI Dr Sirisha Tadimalla (<i>University of Sydney and Western Sydney Local Health District</i>)
12:20	Towards reliable quantitative MRI - Quality assurance and protocol optimization Prof Yves De Deene (<i>South Western Sydney Local Health District</i>)
12:55 – 13:45	Lunch
13:45 – 15:15	Imaging Part 2 + Dose painting by numbers Chairs: Prof Martin Ebert and Dr Hayley Reynolds
13:45	From Qualitative Reading to Quantitative Biomarkers: Radiomics 1.0, 2.0, and 3.0 Prof Dr Philippe Lambin (<i>University of Maastricht</i>)
14:20	Imaging biomarker discovery and the integration to personalised medicine Dr Yu Sun (<i>The University of Sydney</i>)
14:45	Dose painting by numbers – translating radiation biology into treatment planning Prof Annette Haworth (<i>The University of Sydney</i>)
15:15 – 15:40	Afternoon tea
15:40 – 16:35	Returning to Radiobiology Chairs: A/Prof Guiseppe Sasso and Dr Niluja Thiruthaneeswaran
15:40	How DNA repair guides cell death after radiotherapy A/Prof Harriet Gee (<i>Western Sydney Local Health District</i>)
16:05	Clinical and radiobiological aspects of carbon ions and protons with a focus on overcoming the effects of hypoxia Univ Prof Dr Piero Fossati (<i>MedAustron</i>)
16:40 – 16:50	Closing Comments
16:50 – 18:30	Networking event CPC Auditorium Foyer – drinks and light refreshments provided

Day 2 Symposium

Friday 20th February 2026

8:30-9:00	Registration
9:00 – 9:10	Opening: Prof. Annette Haworth & Rachel Stensmyr
9:10 – 11:00	Keynote Session Chairs: Prof Lois Holloway and A/Prof Vanessa Panettieri
9:10 – 9:55	Translating Radiomics and Medomics into clinical trials and Personalised Medicine <i>Prof Dr Philippe Lambin (Maastrich University)</i>
9:55 – 10:35	RT, the immune response and synergies with immunotherapy <i>Prof Martin Ebert (University of Western Australia)</i>
10:35 – 11:00	PET imaging using PSMA in brain cancer <i>Prof Michael Fay (University of Newcastle)</i>
11:00 - 11:25	Coffee Break
11:25 – 11:50	Mark Hughes Foundation Guest Speaker Chairs: Prof Michael Fay and Kristie Harrison
	Making radiotherapy more effective by blocking DNA repair <i>A/Prof Paul Tooney (University of Newcastle)</i>
11:50 – 13:05	Biologically guided RT clinical trials Pt 1 Chairs: Prof Paul Keall and A/Prof Sweet Ping Ng
11:50	VITaL – Functional lung imaging <i>Prof Shalini Vinod (South Western Sydney Local Health District and UNSW)</i>
12:15	Personalised liver stereotactic body radiation therapy using magnetic resonance imaging: The PRISM clinical trial <i>Dr Sirisha Tadimalla (University of Sydney and Western Sydney Local Health District)</i>
12:40	Head and neck response imaging <i>Dr Alan Mui (Western Sydney Local Health District)</i>
13:05 – 13:55	Lunch
13:55 – 14:45	Biologically guided RT clinical trials Pt 2) Chairs: Dr Yuvnik Trada and Prof Dr Philippe Lambin
13:55	MR-Guided Radiotherapy in Brain and Head & Neck Tumours <i>A/Prof Sweet Ping Ng (Austin Health Melbourne)</i>
14:20	Now you've seen it <i>Dr Jeremy de Leon (Genesis Care, Sydney)</i>
14:45 – 15:35	Innovative imaging methods Chairs: A/Prof Joel Poder and Dr Jerusha Padayachee
14:45	FIG: PET-based RT guidance and prognosis for advanced glioma <i>Prof Martin Ebert (University of Western Australia)</i>
15:10	BED modelling for combined SBRT with Lu-177 boost <i>Dr Price Jackson (Peter MacCallum Cancer Centre)</i>
15:35 – 15:55	Afternoon tea
15:55 – 17:10	Biologically guided adaptive and post-treatment response Chairs: Rachel Stensmyr and Dr Chandrima Sengupta
15:55	AI in the Loop: Real-time MRI for Adaptive Radiotherapy <i>Dr David Waddington (NHMRC Emerging Leadership Fellow, The University of Sydney)</i>
16:20	The Sequential Imaging – Biologically targeted Radiation Therapy (SI-BiRT) studies <i>Dr Hayley Reynolds (University of Auckland) and Dr Yu-Feng Wang (University of Sydney)</i>
16:45	Reirradiation/salvage RT <i>Prof Ane Appelt (Rigshospitalet & Technical University of Denmark)</i>
17:10-17:20	Symposium Close : Prof. Annette Haworth & Rachel Stensmyr



Please note the CPC Auditorium entry is opposite the main Charles Perkins Centre. The CPC Auditorium can only be accessed by going through the glass doors on Level 1 (facing the University Oval No. 1). Go down the stairs and you should see the reception desk and the Auditorium.

