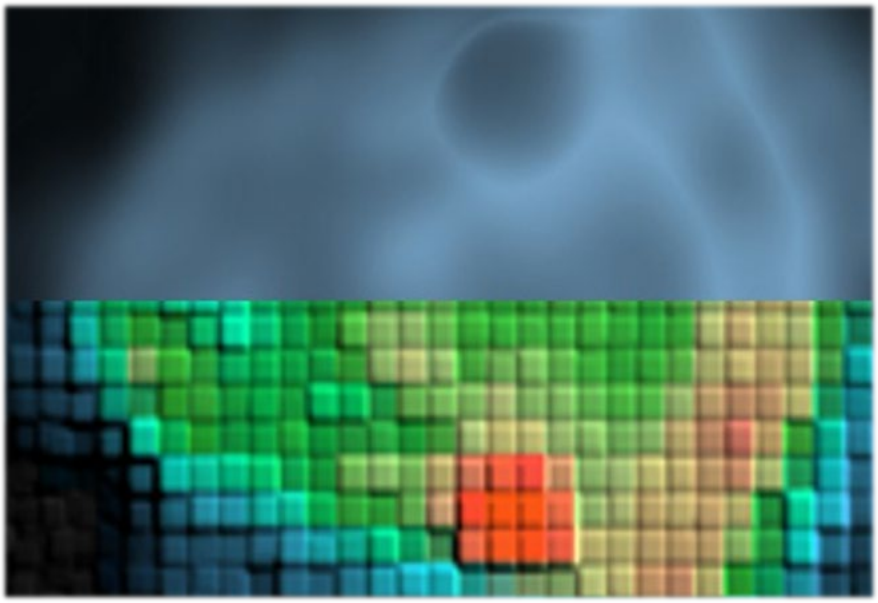
BIOLOGICALLY GUIDED RADIATION THERAPY SYMPOSIUM 2026



Thursday 19th – Friday 20th February 2026

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Day 1 Educational Session

Thursday 19th February 2026

9:00 – 9:30	**Registration**
9:30 – 9:40	**Opening** *Acknowledgement of Country* Prof. Annette Haworth & Rachel Stensmyr
9:40 – 9:50	**Introduction**
	What is BgRT? Prof Annette Haworth *(The University of Sydney)*
9:50 – 11:20	**Radiobiology** Chairs: Prof Jeremy Booth and Prof Jeorg Lehmann
9:50	**Basic principles of radiobiology – Mechanisms and models of radiation response** *Prof Martin Ebert (University of Western Australia)*
10:15	**Dose Response Modelling (TCP/NTCP)** *Prof Ane Appelt (Rigshospitalet & Technical University of Denmark)*
10:45	**Hypoxia in the Tumour Microenvironment: Evolution, Adaptation, and Radioresistance** *Dr Kristina Cook (Principal Investigator, Westmead Institute for Medical Research and Honorary Senior Lecturer, University of Sydney)*
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 (University of Sydney and Western Sydney Local Health District)*
12:20	**Towards reliable quantitative MRI - Quality assurance and protocol optimization** *Prof Yves De Deene (South Western Sydney Local Health District)*
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 (University of Maastricht)*
14:20	**Imaging biomarker discovery and the integration to personalised medicine** *Dr Yu Sun (The University of Sydney)*
14:45	**Dose painting by numbers – translating radiation biology into treatment planning** *Prof Annette Haworth (The University of Sydney)*
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 (Western Sydney Local Health District)*
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 (MedAustron)*
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** *Prof Dr Philippe Lambin (Maastrich University)*
9:55 – 10:35	**RT, the immune response and synergies with immunotherapy** *Prof Martin Ebert (University of Western Australia)*
10:35 – 11:00	**PET imaging using PSMA in brain cancer** *Prof Michael Fay (University of Newcastle)*
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 *A/Prof Paul Tooney (University of Newcastle)*
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** *Prof Shalini Vinod (South Western Sydney Local Health District and UNSW)*
12:15	**Personalised liver stereotactic body radiation therapy using magnetic resonance imaging: The PRISM clinical trial** *Dr Sirisha Tadimalla (University of Sydney and Western Sydney Local Health District)*
12:40	**Head and neck response imaging** *Dr Alan Mui (Western Sydney Local Health District)*
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** *A/Prof Sweet Ping Ng (Austin Health Melbourne)*
14:20	**Now you've seen it** *Dr Jeremy de Leon (Genesis Care, Sydney)*
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** *Prof Martin Ebert (University of Western Australia)*
15:10	**BED modelling for combined SBRT with Lu-177 boost** *Dr Price Jackson (Peter MacCallum Cancer Centre)*
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** *Dr David Waddington (NHMRC Emerging Leadership Fellow, The University of Sydney)*
16:20	**The Sequential Imaging – Biologically targeted Radiation Therapy (SI-BiRT) studies** *Dr Hayley Reynolds (University of Auckland) and Dr Yu-Feng Wang (University of Sydney)*
16:45	**Reirradiation/salvage RT** Prof Ane Appelt *(Rigshospitalet & Technical University of Denmark)*
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.

