

Biologically Guided Radiation Therapy Symposium 2026

Day 1 Educational Session

10:00 – 10:30	Registration & light lunch
10:30 – 10:40	Opening Acknowledgement of Country
10:40 – 11:05	Introduction (25 minutes) What is BgRT?
11:05 – 11:35	Radiobiology part 1 (30 mins) Basic principles of radiobiology – Mechanisms of radiation response
11:35 – 12:05	Radiobiology part 2 (30 mins) Mechanisms of Radiation Response and Dose Response Modelling
12:05 – 12:30	Radiobiology part 3 (25 minutes) Mechanisms of cell death
12:30 – 1:20	Lunch
1:20 – 1:40	Imaging part 1 (20 minutes) Introduction to quantitative MRI
1:40 – 2:00	Imaging part 2 (20 mins) Uncertainties in quantitative MRI
2:00 – 2:20	Imaging part 3 (20 minutes) Imaging biomarker discovery
2:20 – 2:30	Imaging – panel discussion (10 minutes)
2:30 – 3:05	Hypoxia (35 mins) Understanding hypoxia and its Impact on the micro-environment
3:05 – 3:35	Afternoon tea
3:35 – 4:15	RT, the immune response and dose painting by numbers (40 mins)
4:15 – 4:20	Closing Comments
4:30 – 6:30	TBC – Networking event

Day 2 BgRT Symposium

8:45 – 9:00	Registration
9:00 – 9:10	Opening Acknowledgement of Country
9:10 – 9:20	Introduction What is BgRT
9:20 – 10:00	Keynote speaker 1 (40 mins) (TBC) Modelling the future: Integrating biology and AI into Personalised RT
10:00 – 10:40	Keynote speaker 2 (40 mins) (TBC) BgRT, where is the clinical evidence?
10:40 – 11:05	Coffee Break (25 min)
11:05 – 12:05	Biologically guided RT clinical trials
12:05 – 1:05	Adaptive Biologically guided RT and functional avoidance
1:05 – 1:50	Lunch (45 mins)
1:50 – 2:50	Biologically guided RT for reirradiation and post-treatment response
2:50 – 3:50	Innovative imaging methods for BgRT
3:50 – 4:20	Afternoon tea (30 minutes)
4:20 – 5:20	Session TBC
5:20 – 5:30	Symposium Close