

RADSC ACP

VISITING EXPERT TALK

Imaging Tumour Heterogeneity Using Advanced Diffusion MRI

Biological tissues are heterogeneous, particularly at a microscopic scale (e.g. ~10 micrometres). The degree of heterogeneity plays an important role in tissue characterisation, disease diagnosis, and treatment evaluation. In cancer, intra-tumoral heterogeneity has been identified as one of the most challenging factors in diagnosis and treatment. MRI-based cancer heterogeneity studies have been traditionally limited to inter-voxel assessment. Recent development in diffusion MRI has shown great potential of extending tissue heterogeneity assessment to the intra-voxel level.

This seminar will highlight advanced diffusion MRI techniques that Prof Zhou's team has been developing to probe tumour heterogeneity; present theory, implementation, and validation of these techniques; and demonstrate their clinical applications in cancer diagnosis and treatment evaluations. Prof Zhou will also discuss how MRI at ultra-high magnetic fields can substantially enhance the impact of tumour heterogeneity studies.



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10 May 2024 (Fri)



12.30pm – 1.30pm
(Registration and
lunch starts at 12pm)



SGH Dept of Diagnostic Radiology
Conference Room A (Blk 2 Lvl 1)



RSVP

If you are attending the
talk in-person, please click
[here](#) or scan the QR code.

Please refer to the publicity
email for Zoom details.