

# National Imaging Facility Annual Scientific Meeting 2025

Community Workshops program, Wednesday 6 August, Adelaide

Wednesday 6 August: NIF Community Workshops   Adelaide Convention Centre				
Time	Molecular Imaging and Radiochemistry Room 6A	Data Room 8A	Magnetic Resonance (MR1) Room 6B	Magnetic Resonance (MR2) Room 8B
09:00	Registration (09:00 – 09:30)			
09:30				Morning tea (9:45 – 10:00)
10:00	Morning tea (10:00 – 10:30)	Morning tea (10:00 – 10:30)		Magnetic Resonance Imaging Consultation (10:00 – 11:30)
10:30		The NIF Foundational Digital Research Infrastructure Project (10:30 - 12:30)		Australian 7T MRI Network Meeting (11:30 – 12:30)
11:00	Human Molecular Imaging Translation Network (11:00 -12:00)			
11:30				
12:00	3rd Annual NIF PET Fellow Network Workshop (12:00 – 12:30)			
12:30	Lunch (12:30 – 13:00)			
13:00	3rd Annual NIF PET Fellow Network Workshop (13:00 – 15:00)	SCIGET.org - Computing and Analysis Platform for Scientific Research (13:00 – 15:00)	High gradient MRI (Cima.X) workshop (13:00 – 15:00)	Point of Care (PoC) Magnetic Resonance Workshop (by invitation only) (13:00 – 15:00)
13:30				
14:00				
14:30				
15:00	Afternoon tea (15:00 – 15:30)			
15:30	3rd Annual NIF PET Fellow Network Workshop (15:30 – 17:00)	Designing pipelines for the Australian Imaging Service (15:30 – 18:30)	Protocol QC for upfront detection of acquisition discordance (15:30 – 17:00)	Low Field and Ultra Low Field Magnetic Resonance (15:30 – 17:00)
16:00				Through the Lens of "IRIS": Imaging Research Identity System (17:00 – 18:00)
16:30				
17:00				
17:30				
18:00				

NATIONAL IMAGING FACILITY  
COMMUNITY  
WORKSHOPS 2025

6 AUGUST  
ADELAIDE

## National Imaging Facility Annual Scientific Meeting 2025

Scientific Symposium program, Thursday 7 August, Adelaide

### Thursday 7 August: NIF Scientific Symposium | Riverbank Rooms 7 & 8, Adelaide Convention Centre

	Name	Affiliation	Topic
08:45	Prof Margaret Harding	National Imaging Facility	Welcome
08:50	Prof Wojtek Goscinski	National Imaging Facility	Introduction to National Imaging Facility 2025 and Beyond
	<b>Session 1: Preclinical Imaging and Beyond</b>		<b>Chair: Dr Edward Robins</b>
09:00	Prof Benjamin Thierry	University of South Australia	FerroTrace: A Nanoparticle Platform for Precision Surgery and Radiotherapy
09:15	A/Prof Claire Jones	University of Adelaide	Imaging applications in pre-clinical models of neurotrauma
09:30	Prof Janna Morrison	University of South Australia	Seeing the Fetus: MRI of Fetal Development and Lifelong Disease using Large Animal Models
09:45	Dr Zhipeng Cao	ONJCRI/La Trobe University	Efficacy of <sup>177</sup> Lu-Based Radioimmunotherapy in Preclinical Models of Prostate and Renal Cell Carcinoma
10:00	Dr Maggie Aulsebrook	Monash University	From Bond to Bedside: MHELTHERA-Driven Relay Agents Accelerating a New Era in Theranostics
10:15	<b>Panel discussion</b>		
10:35	<b>Networking break   Morning tea</b>		
	<b>Session 2: Imaging Techniques Showcase</b>		<b>Chair: Prof Paul Parizel</b>
11:05	Ms Angela Walls	SAHMRI	Experiences With Imaging at High Gradients – a Technologist's Perspective

NATIONAL IMAGING FACILITY  
SCIENTIFIC  
SYMPOSIUM 2025

7 AUGUST  
ADELAIDE

NATIONAL IMAGING FACILITY  
SCIENTIFIC  
SYMPOSIUM 2025

7 AUGUST  
ADELAIDE

11:20	A/Prof Martin Donnelley	University of Adelaide	Lung Function Imaging and Analysis Using 4dmedical's XV And Permetium Scanners
11:35	A/Prof Lyndsey Collins-Praino	University of Adelaide	Traumatic brain injuries under the scope and in the scanner: Predictors of functional outcomes post-injury
11:50	Prof Pete Thelwall	Newcastle University, UK	Multinuclear MRI in Clinical Research
12:05	Dr Naomi Wattchow	SAHMRI	Experience of a Clinician Researcher Using PCCT for Serial Coronary Plaque Imaging
12:20	<b>Panel discussion</b>		
12:40	<b>Networking break   Lunch and Poster session</b>		
	<b>Session 3: Imaging Data and Digital Infrastructure</b>		<b>Chair: Prof Leigh Johnston</b>
13:40	Dr Adam O'Connell	SAHMRI	Overview of SAHMRI
13:55	Dr Ryan Sullivan	University of Sydney	Consistent Imaging Digital Infrastructure Across NIF and Beyond
14:10	Dr Steffen Bollmann	University of Queensland	A Flexible Scalable and Reproducible Environment for Imaging Analysis
14:25	A/Prof Zongyuan Ge	Monash University	Imaging AI models in Neurology
14:40	A/Prof Johan Verjans	University of Adelaide	Translational Research at the Interface of AI, Imaging and Medical Practice
14:55	<b>Panel discussion</b>		
15:15	<b>Networking break   Afternoon tea</b>		
	<b>Session 4: Imaging Power Pitch</b>		<b>Chairs: Dr Heidi Espedal and Dr Miao Cao</b>
15:50	Dr Heidi Espedal Dr Miao Cao	University of Western Australia Swinburne University	Session Introduction

NATIONAL IMAGING FACILITY  
**SCIENTIFIC  
SYMPOSIUM 2025**

7 AUGUST  
ADELAIDE

15:55	Mr Benjamin Edwards	SAHMRI	First time [ <sup>68</sup> Ga]Ga-Macroaggregated Albumin Lung Perfusion PET/CT Imaging in Large Animal Sheep Model
16:00	Dr Benjamin Blyth	Peter MacCallum Cancer Centre	X-Ray Vision: Imaging Opportunities on a Pre-Clinical CT-Guided Radiotherapy Platform
16:05	Mr Steven Chow	Monash University	The Effect of TI Selection on Deep Learning Models for T1 Mapping
16:10	Dr Arkiev D'Souza	University of Sydney	Accessible automated anatomical MRI processing: leveraging AIS infrastructure to enable research at scale
16:15	Ms Ting-Yu Lin	Monash University	Validation of Synthetic Imaging Data for Assessing Fat in the Liver using AI
16:20	Ms Vicky He	The Florey	Prewhitening in Time Series Extraction is Deleterious for PPI Analysis
16:25	Dr Jennifer Rumbel	University of Newcastle	Deadly Images: Two ways of seeing
16:30	Dr Michael Green	NeuRA/ UNSW	Integrating Diffusion and EPT Imaging to Explore Brain Electrical and White Matter Changes
16:35	Dr Kh Tohidul Islam	Monash University	Volumetric Brain Measurements in Enhanced Ultra-Low-Field MRI: A Comparative Study Using Deep Learning Models
16:40	Dr Robert Smith	The Florey	Unbiased Tractogram Optimisation for Robust Estimation of Longitudinal Changes in Structural Connectivity
16:45	<b>Scoring Gap</b>		
16:50	<b>Awards and Closing Remarks</b>		
17:00	<b>Networking Drinks</b>		
18:00	<b>END</b>		

## National Imaging Facility Annual Scientific Meeting 2025

Thematic Group Meetings program, Friday 8 August, Adelaide

Friday 8 August: NIF Thematic Group Meetings   Adelaide Convention Centre		
9:00 – 10:30	NIF Thematic Group Meeting: Human Imaging	Riverbank Room 8A
10:30 – 11:00	Morning tea	Riverbank Foyer
11:00 – 12:30	NIF Thematic Group Meeting: Molecular Imaging and Radiochemistry	Riverbank Room 8A
12:30 – 13:00	Lunch	Riverbank Foyer
13:00 – 14:30	NIF Thematic Group Meeting: Informatics Meeting	Riverbank Room 8A
14:30 – 15:00	Afternoon tea	Riverbank Foyer
15:00 – 16:30	NIF Thematic Group Meeting: Animals, Plants and Materials	Riverbank Room 8A