NATIONAL IMAGING FACILITY ANNUAL SCIENTIFIC ANDUAL SCIENTIFIC ANDU

National Imaging Facility Annual Scientific Meeting 2024

Program 7 - 9 August, Brisbane 050824

	Wednesday, 7 August NIF Community Workshops				
	Level 2, Christie Spaces Conference Centre, Brisbane				
Time	Molecular Imaging and Radiochemistry Room T	Data Room V	Magnetic Resonance (MR) Room U	Ultra High Field, Low Field and Point of Care MR Room W	
09:00	:00 Registration (09:00 – 09:30)				
09:30	Morning tea (09:30 – 10:00)				
10:00		Data Infrastructure Workshop	QA & QC Working Group	Australian 7T Network	
10:30	Morning tea (10:30 - 11:00)	(10:00 – 11:00)	(By invitation only) (10:00 – 11:00)	Meeting (10:00 – 11:00)	
11:00	Human Molecular Imaging				
11:30	Translation Network (11:00 -12:00)	Australian Imaging Service: Updates on MRFF, EU, and NCRIS	Exploring reproducibility and quality in MRI research		
40.00	2nd Annual NIF PET Fellow Network Workshop	Projects (11:00 – 12:30)	(11:00 – 12:30)		
12:00	(12:00 – 12:30)				
12:30	Lunch (12:30 – 13:00)				
13:00 13:30	2nd Annual NIF PET Fellow	Building and running Australian	Scanning brain implants:	Point of Care Magnetic Resonance	
14:00	Network Workshop	Imaging Service pipelines	Cochlear implants as a case study	(By invitation only)	
14:30	(13:00 – 15:00)	(13:00 – 15:00)	(13:00 – 15:00)	(13:00 – 15:00)	
15:00		Afternoon tea (15:00 – 15:30)			
15:30	2nd Annual NIF PET Fellow	Neurodesk Workshop: An	Australia-wide multi-site human	Low Field and Ultra Low	
16:00	Network Workshop (15:30 – 16:15)	accessible open-source platform for image data analysis	neuroimaging studies: challenges and opportunities	Field Magnetic Resonance (15:30 – 17:00)	
16:30		(15:30 – 17:30)	(15:30 – 17:30)	(15.30 – 17.00)	
17:00	Neurodegenerative PET	(13.30 – 17.30)	(10.00 – 17.00)		
17:30	Workshop (16:15 – 18:30)				
18:00	(10.13 – 10.30)				
18:30					





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Thursday, 8 August: NIF Scientific Symposium Customs House, Brisbane			
	Name	Affiliation	Topic
08:45	Prof Margaret Harding	NIF	Welcome
08:50	Prof Wojtek Goscinski	NIF	Introduction to National Imaging Facility 2024 and beyond
	Session 1: Accessible Imaging: Technology underpinning community outcomes	Chair/s: Dr Shawna Farquharson and A/Prof Zhaolin Chen	Focus: Initiatives making imaging technology more accessible in the community
09:00	A/Prof Samantha Holdsworth	University of Auckland	Matai: Integrating cutting-edge imaging research in the community
09:15	Prof Monika Janda	University of Queensland	Melanoma Detection and Prevention: The Australian Centre of Excellence for Melanoma Imaging Diagnosis
09:30	Prof Paul Parizel	University of Western Australia	Clinical Translation Perspectives on Low Field Portable MRI
09:45	Emeritus Prof Stuart Crozier	EMVision Medical Devices	Pre-hospital and Bedside Stroke detection and characterisation
10:00	A/Prof Matthew Rosen	Harvard University	Millitesla MRI - Translation to the Clinic and Beyond
10:25		Panel discussion	
10:45	Networking break Morning tea		tea
	Session 2: Large Imaging Studies: Lifecycle and Impact	Chair: Prof Tom Johnstone	Focus: Large impactful cohort studies underpinned by NIF infrastructure and expertise
11:15	Prof Michael Barnett	University of Sydney	Imaging to Understanding Multiple Sclerosis: the MSBase Imaging Repository
11:30	Dr Sarah Hellewell	Curtin University	AUS-mTBI: Designing and implementing the health informatics approaches to enhance treatment and care for people with mild TBI
11:45	Prof Chris Rowe	University of Melbourne	The Australian Dementia Network – Toward Alzheimer's Disease Treatment
12:00	A/Prof Heath Pardoe	The Florey Institute of Neuroscience and Mental Health	Australian Epilepsy Project: Underpinning infrastructure to deliver a large-scale imaging study





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12:15	A/Prof Roslyn Francis	University of Western Australia	Radiopharmaceutical Trials Across Australia - an ARTNet Showcase
12:30	Panel discussion		
12:50	Networking break Lunch and Poster session		
	Session 3: Therapeutic and Diagnostic Showcase: Helping to translate innovation to trials, industry and clinic	Chair: Dr Stuart Newman	Focus: The role of imaging in developing new diagnostics and therapeutics
13:50	Rachel Maclean	Monash University	Development of novel complexes to assist in prostate cancer imaging
14:05	Dr Christian Wichmann	ONJCRI	Automating the radiosynthesis of agents for multi- centre PET imaging of cytotoxic T-cells
14:20	Prof Kris Thurecht	University of Queensland	The ARC Research Hub for Advanced Manufacture of Targeted Radiopharmaceuticals - Building Strong Industry and Research Collaborations
14:35	Prof Stephen Rose	AdvanCell	AdvanCell: Developing new cancer therapies from preclinical development to first-in-human trials
14:50	Prof John Hooper	Mater Research Institute – University of Queensland	Novel tracers in ovarian and bladder cancer
15:05	Shiami Luchow and Dr Bryan Paton	University of Newcastle	Scanning brain implants: Cochlear implants as a case study
15:20	Networking break Afternoon tea		oon tea
	Session 4: Imaging Power Pitch - NIF Community Highlights	Chair/s: Dr Karine Mardon and Dr Gary Cowin	
15:55	Dr Karine Mardon and Dr Gary Cowin	University of Queensland	Session Introduction
16:00	Brooklyn Wright	University of New South Wales	Novel Methods to Achieve the Highest Resolution in-vivo Child Brain MRI - A Pilot Study
16:04	Dr Bowen Xin	CSIRO	Ultrashort Echo-time MRI and Fourier Decomposition MRI for Structural and Functional Pulmonary Abnormalities in Ataxia Telangiectasia - A Pilot Study
16:08	Tran Hoang	Monash University	Structural connectivity of the claustrum-amygdala connection to the PFC suggests an underlying network related to anxiety





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16:12	Robert Williams	University of Melbourne	Appropriate selection of subjects for amyloid therapy; Visual Readings versus Centiloid
16:16	Xincheng Ye	University of Queensland	Modality-Specific Strategies for Medical Image Segmentation using Lightweight SAM Architectures
16:20	Dr Arif Gulzar	University of Queensland	Tumor Microenvironment responsive PET-MRI guided delivery of 212Pb for cancer theranostic
16:24	Dr Kh Tohidul Islam	Monash University	Radiological Image Quality Assessment of Synthetic 3T MRI Image from 64mT MRI
16:28	Dr Ashley Stewart	University of Queensland	QSMxT: A Toolbox for Seamless Quantitative Susceptibility Mapping on Any Platform
16:32	Dr Fernanda Ribeiro	University of Queensland	DeepRetinotopy: Towards a Comprehensive Toolkit for Human Visual Cortex Parcellation
16:36	Marshall Xu	University of Queensland	VesselBoost: Improving Segmentation of Small Vessels in Human Brain Magnetic Resonance Angiograms
16:40	Dr Robert Smith	The Florey Institute of Neuroscience and Mental Health	"Where did you come from; where do you go?": Validation of orientation-dependent metadata in diffusion Magnetic Resonance Imaging
16:44	Dr Miao Cao	Swinburne University of Technology	Three-dimensional velocity fields of pathological and physiological neural dynamics reveal singularities and propagation pathways
16:55	Awards and Closing Remarks		
17:00	Networking Drinks		
18:00	END		





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Friday, 9 August: NIF Thematic Group Meetings University of Queensland, Brisbane City			
9:00 – 10:30	NIF Thematic Group Meeting: Informatics Meeting	Level 2, Room 227	
9:00 – 10:30	NIF Radiographers' Community of Practice (By invitation only)	Level 2, Room 205	
10:30 – 11:00	Morning Tea	Level 2	
11:00 – 12:30	NIF Thematic Group Meeting: Human Imaging	Level 2, Room 227	
12:30 – 13:00	Lunch	Level 2	
13:00 – 14:30	NIF Thematic Group Meeting: Molecular Imaging and Radiochemistry	Level 2, Room 227	
14:30 – 15:00	Afternoon Tea	Level 2	
15:00 –16:30	NIF Thematic Group Meeting: Animals, Plants and Materials	Level 2, Room 227	



