

**ITRO (Innovative Technologies in Radiation Oncology) Advanced Imaging in Radiation Therapy
Program
14 to 16 February 2020**

Friday Feb 14

Time start	Time End	Presenter	Affiliation	Country	Abstract No	Topic
7:30	8:00	Registration				
8:00	8:10	Anatoly Rozenfeld Josh Yamada				WELCOME
8:10	8:50	Jerome Maller	GE Healthcare	Australia	172	ABC'S OF MRI SCANS
GU Session Chair: Carl Rossi						
8:50	9:20	Cynthia Menard	Department of Radiation Oncology, University of Montreal	Canada	221	IMPACT OF ADVANCED IMAGING ON RADIOTHERAPY OUTCOMES IN PROSTATE CANCER
9:20	9:50	Michael Zelefsky	MSKCC, New York	USA	223	THE IMPACT OF ADVANCED IMAGING ON PATIENT SELECTION, TREATMENT PLANNING AND DELIVERY FOR PROSTATE
9:50	10:10	Discussions				
10:10	10:30	Morning Tea & Exhibits				
CNS Session Chair: Wenchang Wong						
10:30	11:00	Igor Barani	Barrow Neurological Institute	USA	222	RATIONALE FOR A TRIAL OF 18F-FLUCICLOVINE PET/MR-GUIDED RADIATION THERAPY FOR GLIOBLASTOMA
11:00	11:30	Josh Yamada	MSKCC, New York	USA	208	THE ROLE OF DYNAMIC CONTRAST ENHANCED MRI IN SPINE RADIOSURGERY
11:30	11:50	Discussions				
11:50	12:50	Lunch				
PARTICLE THERAPY Session Chair: Michael Penniment						
12:50	13:20	Carl Rossi	California Protons, California	USA	219	INTENSITY-MODULATED PROTON THERAPY-TREATMENT DELIVERY OPTIMIZATION AND PATHWAYS FOR FUTURE GROWTH
13:20	13:50	Robert Orecchia	European Institute of Oncology, CNAO, Milan	Italy	188	CARBON ION THERAPY: CLINICAL USES AND PRECLINICAL RESEARCHES
13:50	14:10	Discussions				
14:10	14:35	Stefan Both	Groningen University Medical Center	Netherlands	156	SMART IMPT CLINIC: PRESENT AND FUTURE DEVELOPMENTS
14:35	14:45	Anatoly Rozenfeld	CMRP/UOW	Australia	189	NEW TECHNOLOGIES FOR QA IN PARTICLE THERAPY
14:45	15:00	Chris Beltran	Mayo Clinic, Jacksonville Florida	USA	181	EVALUATING PROTON RELATIVE BIOLOGICAL EFFECTIVENESS FOR SPINAL CORD TOXICITY IN SINGLE AND MULTIFRACTION TREATED
15:00	15:20	Afternoon Tea & Exhibits				
PHYSICS Session Chair: Anatoly Rozenfeld						
15:20	15:40	Vladimir Feygelman	Moffitt Cancer Centre, Florida	USA	113	CHALLENGES IN ESTABLISHING COINCIDENCE OF RADIATION AND IMAGING ISOCENTERS ON A MR-GUIDED LINAC
15:40	16:00	Brian Hutton	University College London	UK	183	SPECT/MRI: EXTENDING THE OPTIONS FOR HYBRID IMAGING
16:00	16:20	Wolfgang Tome	Albert Einstein School of Medicine, Montifore Hospital	USA	105	SAFETY EVALUATION OF A PRESISTENT TUMOR-SPECIFIC GADOLINIUM (Gd)-BASED IMAGING AGENT IN PROTON THERAPY
16:20	16:40	Peter Metcalfe	CMRP/UOW	Australia	176	MRI-LINAC BASED BIOLOGICAL IMAGE ADAPTIVE RADIATION THERAPY (BI-ART)
16:40	17:00	Tomas Kron	Peter MacCallum Cancer Centre, Melbourne	Australia	184	WATER OR MEDIUM: DOSE SPECIFICATION IN CLINICAL TRIALS AND BEYOND
17:00	17:20	Sirisha Tadimalla	University of Sydney	Australia	154	ROLE OF GADOXETATE DCE-MRI IN RADIATION THERAPY OF LIVER CANCERS
17:20	17:40	Paul Keall	ACRF Image X Institute, University of Sydney	Australia	185	DEMOCRATISING REAL-TIME IMAGE GUIDED RADIATION THERPAY: INITIAL FINDINGS FROM THE TROG 17.03 LIVER ABLATIVE RADIOTHERAPY WITH KIM (LARK) TRIAL

**ITRO (Innovative Technologies in Radiation Oncology) Advanced Imaging in Radiation Therapy
Program
14 to 16 February 2020**

Saturday Feb 15

		Presenter	Affiliation	Country	Abstract No	Topic
8:00	8:30	Registration				
8:30	8:40	Anatoly Rozenfeld Josh Yamada				WELCOME
8:40	9:20	Matthew Field	UNSW, NSW	Australia	186	SCALING UP RADIOMICS MODELLING WITH DISTRIBUTED LEARNING
9:20	9:35	James Korte	Peter MacCallum Cancer Centre, Melbourne	Australia	111	FASTRACK II MAGNETIC RESONANCE IMAGING SUB-STUDY : DIFFUSION AND PERFUSION BIOMARKERS FOR RENAL SABR RESPONSE
HEAD AND NECK Session Chair: Michael Jackson						
9:35	10:05	Wenchang Wong	POWH, Sydney, NSW	Australia	220	RE-IRRADIATION FOR RECURRENT HEAD AND NECK CANCER
10:05	10:35	Jimmy Caudell	Moffitt Cancer Centre, Florida	USA	187	UPDATES IN RADIOTHERAPY FOR HEAD AND NECK CANCER INCLUDING UTILITY OF MRI-LINAC
10:35	10:55	Discussions				
10:55 11:15 Morning Tea & Exhibits						
SARCOMA Session Chair: Josh Yamada						
11:15	11:45	Kaled Alektiar	MSKCC, New York	USA		TBA
11:45	12:15	Angela Hong	University of Sydney	Australia	204	RADIOTHERAPY IN THE IMMUNO-ONCOLOGY ERA - IMPLICATIONS FOR SARCOMA CARE
12:15	12:35	Discussions				
12:35 13:35 Lunch						
RADIOMICS Session Chair: Michael Barton						
13:35	14:15	Joe Deasy	MSKCC, New York	USA	195	NEW BIOINFORMATICS METHODS TO UNDERSTAND CANCER SUBYPES AND IMAGING CORRELATES
14:15	14:35	Markus Hagenbuchner	SCIT UOW, NSW	Australia		PROGRESS ON RADIOMICS PROJECT UOW/MSKCC
MEDICAL PHYSICS/STUDENTS - RAPID FIRE PRESENTATIONS Session Chair: Michael Lerch						
14:35	15:35	Fang-Yi Su	CMRP/UOW	Australia	158	A REAL-TIME DOSIMETER FOR DART CANCER TREATMENT
		Benjamin James	CMRP/UOW	Australia	205	IN-FIELD AND OUT-OF-FIELD MICRODOSIMETRIC CHARACTERISATION OF A 62 MEV PROTON BEAM AT CATANA
		Vladimir Pan	CMRP/UOW	Australia	206	TBA
		James Vohradsky	CMRP/UOW	Australia	207	TBA
		Trent Causer	CMRP/UOW	Australia	129	USE OF MONOLITHIC SILICON DETECTOR FOR MEASUREMENT OF MAGNETIC AND RADIATION ISOCENTRE COINCIDENCE FOR MR- GUIDED RADIOTHERAPY SYSTEM
		James Archer	CMRP/UOW	Australia	146	NOVEL CHERENKOV REMOVAL TECHNIQUES FOR SCINTILATOR DOSIMETRY IN ELECTRON BEAMS
		Nuwangi Cooray	CMRP/UOW	Australia	118	HIGH SPACIAL RESOLUTION MULTIPOINT OPTICAL FIBER DOSIMETER CHARACTERISATION OF NOVEL 1- AND 2-DIMENSIONAL SILICON DIODE ARRAY DETECTORS FOR RANGE AND SPOT SIZE VERIFICATION FOR PROTON THERAPY PENCIL BEAM SCANNING QA
		Emily Debrot	CMRP/UOW	Australia	149	MRI-LINAC RELATIVE DOSIMETRY MEASUREMENTS WITH AN IN- HOUSE PLASTIC SCINTILLATION DOSIMETER
		Levi Madden	CMRP/UOW	Australia	136	OPTIMIZATION OF A SCINTILLATING FIBER OPTIC RADIATION SENSOR FOR HDR BRACHYTHERAPY QUALITY ASSURANCE
		Mohammed Al-Towairqi Heranudin	CMRP/UOW	Australia	143	CHARACTERISATION OF A WELL-TYPE NAI(TL) DETECTOR AND VALIDATION OF A MONTE CARLO MODEL
			CMRP/UOW	Australia	139	TBA
		Andrew Chacon Harley Rutherford	CMRP/UOW CMRP/UOW	Australia Australia	165 166	DOSE QUANTIFICATION IN CARBON ION THERAPY USING IN-BEAM POSITRON EMISSION TOMOGRAPHY
		Albarakati Hassan Derrick Wanigaratne	CMRP/UOW Peter Mac	Australia		TBA TBA
		15:35 15:55 Afternoon Tea & Exhibits				
GI Session Chair: Cynthia Menard						
15:55	16:25	Laura Dawson	Princess Margaret Cancer Centre, Toronto	Canada	224	THE EXPANDING ROLE OF RADIATION THERAPY FOR HEPATOCELLULAR CARCINOMA
16:25	16:55	Tim Wang	WSLHD, Sydney	Australia	173	THE ROLE OF STEREOTACTIC BODY RADIOTHERAPY FOR THE TREATMENT OF LIVER METASTASES
16:55	17:15	Discussions				

**ITRO (Innovative Technologies in Radiation Oncology) Advanced Imaging in Radiation Therapy
Program
14 to 16 February 2020**

Sunday Feb 16

		Presenter	Affiliation	Country	Abstract No	Topic
8:00	8:30	Registration				
8:30	8:40	Anatoly Rozenfeld Josh Yamada				WELCOME
8:40	9:20	Igor Barani	Barrow Neurological Institute	USA	193	ROLE OF ARTIFICIAL INTELLIGENCE (AI) IN RADIATION ONCOLOGY AND RADIOLOGY
RADIATION THERAPIES WITH ALPHA PARTICLE EMITTERS			Session Chair: Joseph Bucci			
9:20	9:45	Phil Turner	Queen's University, Belfast	United Kingdom		WHOLE BODY MRI APPLIED TO A NOVEL PHASE I/II TRIAL OF VMAT TO PROSTATE AND PELVIC NODES PLUS 6 CONCURRENT CYCLES OF RADIUM-223 IN mHSPC METASTATIC TO BONE POST ADT + DOCETAXEL
9:45	10:10	Yona Kesari	Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv	Israel	103	EFFECTIVE TREATMENT OF METASTATIC CANCER BY AN INNOVATIVE INTRATUMORAL ALPHA PARTICLE MEDIATED RADIOTHERAPY IN COMBINATION WITH IMMUNOTHERAPY
10:10	10:30	Morning Tea & Exhibits				
GYNAE			Session Chair: Michael Jackson			
10:30	11:00	Kaled Alektiar	MSKCC, New York	USA		TBA
11:00	11:30	Viet Do	Cancer Therapy Centre, Liverpool & Campbelltown Hospital	Australia	196	INTEGRATING IMAGING IN THE MANAGEMENT OF UTERINE CANCER
11:30	11:50	Discussions				
11:50	12:00	Anatoly/Josh				conclude
12:00	13:00	Lunch				