Program WTTC19

		Presenter
	Sunday, August 25' 2024	
18:00 - 21:00	Registration & Welcome Reception	

	Manday Avent 2012024	
20.00.00	Monday, August 26' 2024	
08:00 - 09:00	WTTC19 Registration	
	Moderator: Viplav Gupta	
09:00 - 09:35	Welcome Address and Introductory remarks	S.M. Schmidt, V. Gupta
9:35 - 10:20	Reminiscences of a long journey through the realm of radionuclides	Syed M. Qaim
.0:20 - 10:40	Presentation from ISOFLEX	Patrick Hardy
0:40 - 11:00	Presentation from SUMITOMO (high-yield target)	SHI
1:00 - 11:30	Refreshment	
ession 1	Gas Targets: Chairs - David W. Dick, Martin Walther	
1:30 - 11:50 OP0	1 Production of Iodine-131 Using a compact fusion reactor based on Multi-State Fusion	Tom Haywood
1:50 - 12:10 OP0	2 Cyclotron production of ¹³¹ Cs via ¹³¹ Xe (p,n) reaction in a gas target	Valia Barreras
2:10 - 12:30 OP0	3 ¹¹ C Medical-isotope Production with Carbon Nanotubes by Photonuclear Reaction	Maki Kurosawa
2:30 - 12:50 OPO	4 Comparison of self-made and commercial gas targets for $[^{11}C]CH_4$ production	Semi Helin
2:50 - 14:20	Lunch	
ession 2	Solid Targets 1: Chairs - Matthew Stokely, Sara Cisternino	
4:20 - 14:40 OPO	5 Different approaches for the preparation of bismuth metal targets for the production of astatine-211 Production of antimony-119 from tin targets: efforts towards a tin electrodeposition method compatible with target	Lucas Mues genannt Koers
4:40 - 15:00 OP0	6 recycling	Aivija Grundmane
5:00 - 15:20 OP0	7 Cyclotron Production of High-Purity Scandium-47 from Natural Vanadium Targets	Emily Putnam
5:20 - 15:40 OP0	8 Dissolution and purification stations for radiometal production using solid targets	Ruben Dallakyan
5:40 - 16:30	Poster Session 1 (including Refreshment)	

		Tuesday, August 27' 2024	
Session 3		Targetry: Chairs - Jonathan W. Engle, Saverio Braccini	
	OP09	Rotating targets: Theory, design parameters and experimental verification.	Mikael Jensen
00.00	0.00	Pressed targets using aluminium filler for increased thermal stability in the production of ¹³⁵ La, ¹⁶⁵ Er, and ⁸⁹ Zr with a	
00.30 - 00.40	∩ D 10	medical cyclotron	Kristina Søborg Pedersen
09.20 - 09.40	0110	medical cyclotron	Kiistiila Syborg Federseii
09:40 - 10:00	OP11	Cyclotron-based Production of ⁴⁴ Sc using Pressed Powder Calcium on an In-House Developed Solid Target System	Viktoria Krol
		Direct Temperature Measurements of Solid Isotope Production Targets	David Prevost
		Indirect production of the radionuclides ¹⁰³ Pd, and ^{103m} Rh: Targetry, recycling, separation and purification	Mangi Lal Godara
		NiSb target for production of Sn-117m and other radionuclides	Dmitri Medvedev
11:00 - 11:30		Refreshment	
Session 4		Exotic World 1: Chairs - Nick van der Meulen, C. Etienne Vermeulen	
11:30 - 11:50	OP15	Production of High Specific Activity Germanium-71 through Photonuclear Reactions and Nuclear Recoil Separation	Emily Paige Abel
44.50 43.40	0046	Non-destructive beam monitoring based on optical fibers and inorganic scintillators for radioisotope production and	
		radiation therapy applications	Alexander Gottstein
12:10 - 12:30	OP17	Production and purification of Au-199 from natural platinum(0) in a research reactor	Veronika Rosecker
12.20 12.50	0040	Production and Purification of Radiolabeling-Ready ^{132/135} La from the Irradiation of Metallic ^{nat} Ba Targets with Low	D 1 1 1
	OP18	Energy Protons	Brooke McNeil
12:50 - 14:20 Session 5		Lunch Nuclear Data: Chairs - Olof Solin, Mikael Jensen	
		Nuclear cross section measurement of the ⁹³ Nb(p,n) ⁹³ Mo reaction	Andreas Dragous
			Andreas Dragoun
15:00 - 15:20	OP20	Investigation of the ^{48,49,50} Ti(p,x) nuclear reactions for the production of ⁴⁷ Sc at the INFN-LNL	Lucia De Dominicis
15.20 15.40	OD21	Nuclear cross-section measurement of terbium-155 production using reactions induced by light ions on Eu, Gd, Tb and	Michele Colucci
15:20 - 15:40		, ,	
15:40 - 16:00 16:00 - 16:30	UPZZ	Measurement of Excitation Functions of the ²²⁶ Ra(p,xn) reactions	Ondřej Lebeda
16:00 - 16:30 16:30 - 17:30		Poster FLASH Talk 1 (P1 - P11) Poster Session 2 (including Refreshment)	
16:30 - 17:30 17:30 - 19:00		IAC Meeting	
17.30 - 19.0 0		TAC IVICE LINE	

			Wednesday, August 28' 2024	
Session 6	6		Facility: Chairs - Katherine Gagnon, Jonathan Siikanen	
09:00 - 0	9:20 (OP23	Big Machine, Big Targets, Big Oopsies	C. Etienne Vermeulen
09:20 - 0	9:40 (OP24	Design of a Mechanical Iris for the Experimental Beamline at FZJ	Ingo Spahn
			IAEA Contribution to the production of cyclotron-based radioisotopes and radiopharmaceuticals for the Member	
09:40 - 1	.0:00	OP25	States	Amirreza Jalilian
10:00 - 1	.0:20	OP26	A Balancing Act at UAB Cyclotron Facility: Supporting routine production of traditional isotopes and novel radiometals.	Jean-Pierre Appiah
			ICNAS's experience of daily production of gallium-68 from liquid targets with 2 cyclotrons of distinct energies:	
10:20 - 1	.0:40	OP27	introducing the new IBA Kiube VE – Variable Energy	Sergio do Carmo
10:40 - 1	1:00 (OP28	University of Wiconsin - Madison Experiences with two GE Solid Target Systems	Jason Mixdorf
11:00 - 1	1:10		WTTC19 Group Photo	
11:10 - 1	1:40		Refreshment	
Session 7			Solid Target 2: Chairs - Jean-Pierre K. Appiah, Martin Kreller	
11:40 - 1	2:00	OP29	Progress with production of ⁷⁶ Br	Karsten Franke
			Challenges in electromagnetic isotope separation of heavy medically relevant nuclides from thick thorium-based	
12:00 - 1	2:20	OP30	targets at CERN MEDICIS	Jake Johnson
			Developments towards an optimized production of non-conventional radioisotopes with solid targets at the Bern	
12:20 - 1	2:40	OP31	medical cyclotron	Saverio Bracchini
			Purification of Cyclotron-Produced [⁶⁸ Ga]Ga from [⁶⁸ Zn]Zn Solid Target as a Precursor for Synthesis of	
12:40 - 1	3:00	OP32	Radiopharmaceuticals at BIONT, a.s.	Marek Leporis
13:00 - 1	4:30		Lunch	
18:00 - 2	2:00		Gala Dinner	

	Thursday, August 29' 2024	
Session 8	Actinium and Terbium Waves: Cornelia Hoehr, Martina Benešová-Schäfer	
09:00 - 09:20	OP33 ²²⁵ Ac Production from ²²⁶ Ra(p,2n) at TRIUMF	Eleanor Dunling
09:20 - 09:40	OP34 Chelator-impregnated polydimethylsiloxane beads for the separation of Ac-225 from Radium	Svenja Trapp
09:40 - 10:00	OP35 Selective Precipitation of Thorium for Actinium-225 Recovery from Proton Irradiated Thorium Targets	Steven Schultz
10:00 - 10:20	OP36 Designing an Optimal Terbium Target for indirect ¹⁵⁵ Tb production	Anzhelika N. Moiseeva
10:20 - 10:40	OP37 Fabrication and Characterization of Gd Targets for the Production of Terbium Radionuclides for Nuclear Medicine	Vanessa Rhoden
10:40 - 11:00	OP38 Proton irradiation, Purification, and recycling of gadolinium oxide targets for production of ¹⁵⁵ Tb	Trenton Irvin
11:00 - 11:30	Refreshment	
Session 9	World of Copper: Chairs - Ulrich W. Scherer, Sérgio do Carmo	
11:30 - 11:50	OP39 Routine Production of [⁶⁷ Cu]CuCl ₂ at the TR-Flex Cyclotron: Report on Challenges Faced and Potential Solutions	Santiago Andrés Brühlmann
11:50 - 12:10	OP40 Production Cross Section Measurements of the natNi(d,x)61Cu Reaction	Laurine Puren
	Production of Cu-67 with medical cyclotron: target manufacturing technology development and recovery process	
12:10 - 12:30	OP41 optimization	Sara Cisternino
12:30 - 12:50	OP42 Current Status on [64Cu]CuCl ₂ Production with a TR-Flex Cyclotron at the HZDR	Martin Walther
12:50 - 13:10	OP43 Is 70 Zn(d,x) 67 Cu the best way to produce 67 Cu for medical applications?	Etienne Nigron
13:10 - 14:30	Lunch	
Session 10	Liquid Targets: Chairs - Francisco Alves, Kristina S. Pedersen	
	Production of technetium-94m by irradiation of phosphomolybdic acid in a liquid target at the McMaster University	
14:30 - 14:50	OP44 Cyclotron Facility	Ross Harper
14:50 - 15:10	OP45 Titanium-45 Production in a Liquid Cyclotron Target	Molly DeLuca
		Chubina Pathma
15:10 - 15:30	OP46 Liquid Target Production and Separation of 45Ti for complexation with DOTA	Kumarananthan
15:30 - 15:50	OP47 "He-free" IBA's cylindrical [180] water target modification	Ondrej Szollos
	OP48 In-liquid Isotope Identification for Development of Alpha-therapeutics	Christian Diget
16:10 - 16:40	Poster FLASH Talk 2 (P12 - P22)	
16:40 - 17:30	Poster Session 3 (including Refreshment)	

	Friday, August 30' 2024	
Session 11	Radiochemistry - Chairs: Ondřej Lebeda, Mukesh Pandey	
09:00 - 09:20	OP49 Chromatographic separation of Medical Radionuclides from Proton-Irradiated Thorium Targets	Michael E. Fassbender
09:20 - 09:40	OP50 Radiometal production with in-target dissolution	Dezső Szikra
	Requirements and challenges of recycling target materials towards rational radionuclide production for clinical and	
09:40 - 10:00	OP51 preclinical investigation	Nicholas P. van der Meulen
	Combining Solid Phase Extraction and Ion Exchange Chromatography for the Purification of Cyclotron-produced 52gMn	
10:00 - 10:20	OP52 with Application to Macrocyclic Chelators	Kendall Barrett
10:20 - 10:40	OP53 The TRIUMF Automated Chemistry Unit (TACU): a Versatile System for Radioisotope Processing	Nicolas Fedrigo
10:40 - 11:10	Refreshment	
Session 12	Exotic World 2: Chairs - Valery Radchenko, Ingo Spahn	
11:10 - 11:30	OP54 Er-165: A promising candidate for the targeted Auger electron therapy of cancer	Behrad Saeedi Saghez
11:30 - 11:50	OP55 Production of Pb-203: pathway from target manufacturing to chemical separation	Vanessa Rhoden
11:50 - 12:10	OP56 Production of medically relevant holmium radioisotopes for Targeted Radionuclide Therapy	Edoardo Renaldin
12:10 - 13:00	Prize Distribution, Concluding Remarks, Next WTTC19 Announcement	WTTC19 chairs, SS mentors
13:00 - 14:30	Lunch	

Program WTTC19 - Poster

		Tuesday August 27' 2024	
		Poster Session 2: Chair - Jason Lewis	
16:00-16:30		Flash Talks	
	P01	Progress towards Production and Application of 197m/gHg for Targeted Auger Electron Therapy (TAET)	Yumeela Shah
	P02	Upcycling older modules, from feasibility to Galium-68 ligand production	Antje Uhlending
	P03	The Research for Preparation Process of ¹⁰³ Pd Based on Cyclone-30	Chengwei Ma
	P04	Production of Zirconium-89 & Solid Target Irradiations at the McMaster University Cyclotron Facility	Derek R. Morim
	P05	Qualitative study of thin targets	Erika Jajcisinova
	P06	Increasing ¹⁶⁶ Ho Specific Activity through the Szilard-Chalmers Effect in ¹⁶⁵ Ho-loaded Zeolite A	Esther Spruit
	P07	New [18O] Water Target for Large Scale Fluorine-18 Production	Francisco Guerra Gomez
	P08	Separation of rare-earth elements using an ionic liquid impregnated resin	Evan Williams
	P09	The production Process of ⁸⁹ Zr Based on the C30 Cyclotron	Fei Duan
	P10	Feasibility study for the production of 155 Tb using different 155 Gd $_2$ O $_3$ target configurations	Gaja Piteo
	P11	Molybdenum based materials for a low-specific activity ⁹⁹ Mo/ ^{99m} Tc generator	Gauri Gauri
16:30-17:30		Refreshment + Poster Walk	

		Thursday August 29' 2024	
		Poster Session 3: Chair - Karin M. Nielsen	
16:10-16:40		Flash Talks	
	P12	Radiochemistry Capabilities at The University of Tennessee Knoxville	Ivis Chaple Gore
	P13	Effects of Target Conditioning and In-Target Pressure Evaluation for Production of Zr-89	Jacqueline Noel
	P14	Beam Detection and Alignment for Custom Targets	Joe Singh
	P15	Technology Improvements for the Case of a Solid Target Station	Justine Munich
	P16	Automated dispensing system for [18F]F ⁻ water	Karsten Franke
	P17	Optimization of ⁶⁸ Ga production with liquid target in cyclotron	Leandro Urrutia
	P18	Concentration and Recovery of Nuclear Medicine Radionuclides in Buffer Solutions	Madeleine Eddy
	P19	Copper isotopes production test with medical cyclotron: preliminary irradiation on nat Zn and Cu/Zn separation	Giorgia Speltri
	P20	Niobium as a suitable alternative material for cyclotron target windows	Sergio do Carmo
	P21	Ortho-Positronium Imaging Techniques with GRETINA	Wesley Walker
	P22	The quest for terbium: could molecular extraction help us bring terbium closer to the clinics?	Wiktoria Wojtaczka
16:40-17:30		Refreshment + Poster Walk	