18th Workshop on Targetry and Target Chemistry (WTTC18)

Report of Contributions

Contribution ID: 10 Type: Contributed Oral

A Reverse 230U/226Th Radionuclide Generator for Targeted Alpha Therapy Applications

Tuesday, 23 August 2022 13:40 (20 minutes)

Funding Agency

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Contribution ID: 11 Type: Contributed Oral

Preliminary Results of Zinc-68 Recycling in Gallium-68 Liquid Target Routine Production

Friday, 26 August 2022 08:20 (20 minutes)

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Contribution ID: 12 Type: Contributed Oral

Development of Enriched Gadolinium Target for Cross Section Measurement and Future Production of Terbium

Tuesday, 23 August 2022 09:40 (20 minutes)

Funding Agency

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Presenter: WANG, Yizheng (Subatech Laboratory)

Contribution ID: 13 Type: Contributed Oral

Production of 67Cu at the TR-FLEX Cyclotron

Monday, 22 August 2022 08:00 (20 minutes)

Funding Agency

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Contribution ID: 14 Type: Poster

Designing a Solid Target Station to Produce Astatine-211

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Contribution ID: 15 Type: Poster

Development of a Bismuth-209 Target for the Production of Astatine-211

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Presenter: Dr MUN, Sang Chul (KIRAMS)

Contribution ID: 16 Type: Contributed Oral

Cyclotron Based Production of Zr-89 & Other Radiometals Using a Newly Designed Solid Target Insert

Monday, 22 August 2022 08:20 (20 minutes)

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Presenter: Prof. PANDEY, Mukesh (Mayo Clinic Rochester MN USA)

Contribution ID: 17 Type: Contributed Oral

Synthesis, Purification, and Dosing Systems to Localize Nitrogen and Carbon Fixation by Biological Soil Crusts from a Glacier Foreland

Friday, 26 August 2022 10:30 (20 minutes)

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Contribution ID: 18 Type: Contributed Oral

68Ga Production in Liquid Target: Determination of Solubility of ZnCl2 in Hydrochloric-Acid Solutions

Friday, 26 August 2022 08:40 (20 minutes)

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Contribution ID: 19 Type: Contributed Oral

Failure of the Isotope Production Facility Beam Window Assembly at Los Alamos National Laboratory

Wednesday, 24 August 2022 08:00 (20 minutes)

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Contribution ID: 20 Type: Contributed Oral

Spark Plasma Sintering Technique for Cyclotron Solid Target Manufacturing

Monday, 22 August 2022 08:40 (20 minutes)

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Contribution ID: 21 Type: Contributed Oral

Production of 55Co Using Pressed Nickel and Magnesium Foils

Monday, 22 August 2022 09:00 (20 minutes)

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Contribution ID: 22 Type: Contributed Oral

Investigation of Subcooled Flow Boiling at the LANL Isotope Production Facility

Wednesday, 24 August 2022 09:40 (20 minutes)

Funding Agency

The U.S. Department of Energy Isotope Program, managed by the Office of Science for Isotope R&D and Production

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Contribution ID: 23 Type: Contributed Oral

Installation and Testing of an ARTMS QIS™ at the Saskatchewan Centre for Cyclotron Sciences

Monday, 22 August 2022 09:20 (20 minutes)

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Contribution ID: 24 Type: Contributed Oral

Production and Purification of Lead-203 (203Pb) for Radiochemistry and Preclinical Studies

Monday, 22 August 2022 13:40 (20 minutes)

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Contribution ID: 25 Type: Contributed Oral

Titanium-45 (45Ti) Radiochemistry for Development of PET Radiopharmaceuticals

Monday, 22 August 2022 14:40 (20 minutes)

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Type: Contributed Oral

Contribution ID: 26

Nuclear Cross Section Measurements of the 48,49,50Ti(p,x)47Sc Reactions: Preliminary Results of the REMIX Project

Tuesday, 23 August 2022 09:20 (20 minutes)

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Contribution ID: 27 Type: Contributed Oral

Thin Titanium Targets for Nuclear Cross Section Measurements of the 49,50Ti(p,x)47Sc Reactions

Monday, 22 August 2022 09:40 (20 minutes)

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Contribution ID: 28 Type: Poster

Numerical Simulation of Subcooled Flow Boiling for Solid Targets Cooling

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Contribution ID: 29 Type: Contributed Oral

Long-Term Trends in [11C]Methyl Triflate

Friday, 26 August 2022 10:50 (20 minutes)

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Contribution ID: 30 Type: Poster

Production of 95Nb at the Cyclotron Cyclone 18/9

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Contribution ID: 31 Type: Contributed Oral

Possible Material-Saving Approach of Sputtering Techniques for Radiopharmaceutical Target Production

Monday, 22 August 2022 10:30 (20 minutes)

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Contribution ID: 32 Type: Contributed Oral

Cyclotron Beam Characterization for Radionuclide Production on Solid Targets

Monday, 22 August 2022 10:50 (20 minutes)

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Presenter: Dr GEORGE, Keller (Medical Imaging, UWO; ARTMS)

Contribution ID: 33 Type: Contributed Oral

Flow Fields Generated by a Proton Beam in Medical Cyclotron Liquid Targets

Friday, 26 August 2022 08:00 (20 minutes)

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Contribution ID: 34 Type: Contributed Oral

Estimating 225Ac Yield in Thorium Targets

Wednesday, 24 August 2022 08:20 (20 minutes)

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Contribution ID: 35 Type: Contributed Oral

Targetry and Purification of 52Mn for PET/MR Imaging Agents

Monday, 22 August 2022 14:20 (20 minutes)

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Presenter: Ms PYLES, Jennifer (University of Alabama at Birmingham)

Contribution ID: 36 Type: Contributed Oral

Ionic Liquids as Novel Extractants for Separation of Lanthanides and Actinides

Monday, 22 August 2022 14:00 (20 minutes)

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Contribution ID: 37 Type: Contributed Oral

TRIGA Reactor Production and Synergistic Separation of Tb-161 from Enriched Gd-160 Targets

Tuesday, 23 August 2022 14:00 (20 minutes)

Funding Agency

U.S. Department of Energy Isotope Program, managed by the Office of Science for Isotope R&D

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Contribution ID: 38 Type: Contributed Oral

Characterizing the Thermal Performance of Isotope Production Targets

Wednesday, 24 August 2022 08:40 (20 minutes)

Funding Agency

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Contribution ID: 39 Type: Poster

Cyclotron Production and Purification of 52Mn from Electroplated Cr Target

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Contribution ID: 40 Type: Contributed Oral

Microfluidic Solvent Extraction of 68Ga from Zinc Nitrate Liquid Targets

Friday, 26 August 2022 09:00 (20 minutes)

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Type: Contributed Oral

Contribution ID: 41

Towards Optimized Production of 155Tb with Solid Targets at the Bern Medical Cyclotron

Monday, 22 August 2022 11:10 (20 minutes)

Funding Agency

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Contribution ID: 43 Type: Contributed Oral

First Impressions of a Multipurpose Solid Target Platform

Tuesday, 23 August 2022 14:20 (20 minutes)

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Presenter: Mr SVEDJEHED, Johan (GE Healthcare)

Type: Contributed Oral

Contribution ID: 44

New Methods for Theranostic Radioisotope Production with Solid Targets at the Bern Medical Cyclotron

Tuesday, 23 August 2022 08:00 (20 minutes)

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Type: Contributed Oral

Contribution ID: 45

Targetry Advancements for Isotope Production at Texas A&M

Monday, 22 August 2022 11:30 (20 minutes)

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Contribution ID: 46 Type: Poster

Set-Up of a Commercial 225Ac Production Facility

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Type: Contributed Oral

Contribution ID: 47

Comparison of Dowex AG1-X8 and Poros XQ Anion Exchange Resins for 72Se/72As Generator Development

Tuesday, 23 August 2022 14:40 (20 minutes)

Funding Agency

Department of Energy

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Contribution ID: 48 Type: Poster

225Ac Release from ThO2 for Resonant Laser Ionization and Mass Separation at CERN-MEDICIS

Funding Agency

European Union's H2020 Framework Programme. Grant agreement no. 861198 (MSCA ITN LISA)

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Presenter: JOHNSON, Jake (KU Leuven)

Contribution ID: 49

Type: Contributed Oral

Producing High Purity 43,47Sc: Production, Purification, and Characterization Utilizing Enriched [46,50Ti]TiO2 Targets

Monday, 22 August 2022 11:50 (20 minutes)

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Type: Contributed Oral

Contribution ID: 50

Development of Radium-226 Targets for 226Ra(g,n)225Ra Nuclear Cross-Section Measurement and Actinium-225 Production at SCK CEN

Tuesday, 23 August 2022 10:30 (20 minutes)

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Presenter: SKLIAROVA, Hanna (SCK CEN)

Contribution ID: 51 Type: Poster

Production and Separation of Ti-45 from a Liquid Sc Target

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Presenter: Dr ADAMSEN, Tom Christian Holm (Centre for Nuclear Medicine, Department of Radiology, Haukeland University Hospital)

Contribution ID: 52 Type: Contributed Oral

Locally Inclined Target Holder with High-Efficiency Cooling for Nirta Solid Target Module

Tuesday, 23 August 2022 10:50 (20 minutes)

Funding Agency

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Presenter: DALLAKYAN, Ruben (A. I. Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation)

Contribution ID: 53 Type: Contributed Oral

Arsenic Recovery from Irradiated Germanium Targets

Thursday, 25 August 2022 08:00 (20 minutes)

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Contribution ID: 54 Type: Poster

The Jülich IBA Cyclone 30XP Facility

Thursday, 25 August 2022 14:00 (20 minutes)

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Presenter: SPELLERBERG, Stefan (Forschungszentrum Jülich)

Contribution ID: 55 Type: Contributed Oral

Automated and Hard-Wired Safety Systems for Radionuclide Production: the Jülich Cyclotron Interlock System

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Presenter: SPELLERBERG, Stefan (Forschungszentrum Jülich)

Session Classification: Instrumentation and Nuclear Data

Contribution ID: 56 Type: Contributed Oral

Radiochemical Separation of 230U as a By-Product from 225Ac Production to Evaluate Its Chelation for Potential Application in Targeted Alpha Therapy

Thursday, 25 August 2022 08:20 (20 minutes)

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Contribution ID: 58 Type: Contributed Oral

103Pd Production Utilizing Liquid Target Set-Up

Friday, 26 August 2022 09:20 (20 minutes)

Funding Agency

NSERC Discovery Grant

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Presenter: KROL, Viktoria (TRIUMF, University of Edinburgh)

Type: Contributed Oral

Contribution ID: 59

Design, Construction, Installation, and Refinement of a New Compact Radioisotope Production Station at the University of Washington Medical Cyclotron Facility

Tuesday, 23 August 2022 09:00 (20 minutes)

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Contribution ID: 60 Type: Contributed Oral

Isotope Production Activities at LBNL: The Tri-Lab Effort in Nuclear Data (TREND), and Novel Production Pathways for 225Ac

Wednesday, 24 August 2022 09:00 (20 minutes)

Funding Agency

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Presenter: VOYLES, Andrew (UC Berkeley / LBNL)

Contribution ID: 61

Type: Contributed Oral

Alpha Irradiation of Germanium Metal Targets for Production of High Specific Activity 72Se/72As: Challenges Associated with Thick Target Preparation

Tuesday, 23 August 2022 11:10 (20 minutes)

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Presenter: TANZEY, Sean

Contribution ID: 62 Type: Contributed Oral

An Aluminum-Indium-Silver Sealed Solid Cyclotron Target for High Yield Radiometal Production

Thursday, 25 August 2022 08:40 (20 minutes)

Funding Agency

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Contribution ID: 63 Type: Poster

Theoretical Consideration of 68Ge Manufacturing Using an α Beam at Beam Dump for an Educational Tool of a Low-Level Radioactive 68Ge/68Ga Generator

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Contribution ID: 65 Type: Contributed Oral

Production of 119Sb for Pre-Clinical Targeted Radionuclide Therapy

Thursday, 25 August 2022 09:20 (20 minutes)

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Contribution ID: 66 Type: Contributed Oral

Targetry and Purification of Tb from natGd Targets

Wednesday, 24 August 2022 11:10 (20 minutes)

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Contribution ID: 67 Type: Contributed Oral

Operations of a Multiuse Mid-Size Cyclotron Facility at the University of Alabama at Birmingham and the Impact of the RF System on Downtime

Thursday, 25 August 2022 14:40 (20 minutes)

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Contribution ID: 68 Type: Contributed Oral

Characterization of a Cyclotron Liquid Target Using Thick Niobium Target Windows with Thermal Simulation Studies

Friday, 26 August 2022 09:40 (20 minutes)

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Contribution ID: 69 Type: Poster

Experimental Determination of Excitation Function Curves through the Measurement of Thick Target Yields in Liquid Targets

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Contribution ID: 70 Type: Contributed Oral

Electroplating and Recycling Chromium Targets for 52Mn Production

Wednesday, 24 August 2022 11:30 (20 minutes)

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Contribution ID: 72 Type: Contributed Oral

Determination of Distribution Coefficients of Mercury and Gold on Selected Extraction Chromatographic Resins

Thursday, 25 August 2022 09:40 (20 minutes)

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Contribution ID: 73 Type: Poster

A New Cyclotron to Unlock Theranostic Radiopharmaceutical Availability

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Contribution ID: 74 Type: Contributed Oral

Software for Yield and Target Power Optimization

Wednesday, 24 August 2022 09:20 (20 minutes)

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Type: Contributed Oral

Contribution ID: 75

New Metallic Germanium Target Fabrication and Dissolution Techniques for the Cyclotron Production of Positron-Emitting 71As and 72As

Tuesday, 23 August 2022 11:30 (20 minutes)

Funding Agency

the U.S. Department of Energy Isotope Program, managed by the Office of Science for Isotope R&D and Production

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Presenter: LO, Yi-Hsuan

Contribution ID: 76 Type: Contributed Oral

76/77Br: Production, Isolation, Labeling, and Shipping –Advances and Dosimetric Investigations

Tuesday, 23 August 2022 11:50 (20 minutes)

76/77Br: Production, Isolation, Lab...

Funding Agency

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Contribution ID: 77 Type: Contributed Oral

Exploring the Chelation of the Exotic Meitner-Auger Emitter Mercury-197 with Sulfur-Containing Macrocycles

Thursday, 25 August 2022 10:30 (20 minutes)

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Contribution ID: **78** Type: **Poster**

Toward Automating the Separation of Adjacent Lanthanides: 165Er from NatHo

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Production of 165Er by Deuteron

Thursday, 25 August 2022 09:00 (20 minutes)

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Contribution ID: 80 Type: Contributed Oral

Purification of Cyclotron-Produced Cobalt-55/58m from Copper and Iron

Thursday, 25 August 2022 11:10 (20 minutes)

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Contribution ID: 81 Type: Contributed Oral

Purifying Radioantimony for Targeted Radionuclide Therapy: Developments in Separating Antimony from Bulk Tin Target

Thursday, 25 August 2022 11:30 (20 minutes)

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Contribution ID: 82 Type: Contributed Oral

Development of Novel Radiolabeling Strategies and Sulfur-Rich Ligands for Incorporation into Mercury-197m/g Radiopharmaceuticals

Thursday, 25 August 2022 10:50 (20 minutes)

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Contribution ID: 83 Type: Contributed Oral

Zinc Electrodeposition at Constant Current for Cyclotron Production of Gallium Radioisotopes

Wednesday, 24 August 2022 11:50 (20 minutes)

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Contribution ID: 84 Type: Contributed Oral

A Therapeutic Goldilocks Radioisotope 67 Cu Produced at a Biomedical Cyclotron

Wednesday, 24 August 2022 10:30 (20 minutes)

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Contribution ID: 85 Type: Contributed Oral

Production of Radioisotopes Using Secondary Neutrons at the Brookhaven Linac Isotope Producer

Thursday, 25 August 2022 14:20 (20 minutes)

Funding Agency

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Contribution ID: **86** Type: **Contributed Oral**

Enhanced Exit Flange and High Current Collimator for GE PETtrace

Tuesday, 23 August 2022 08:40 (20 minutes)

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Contribution ID: 87 Type: Poster

A Technology Transfer Example for the Case of a Solid Target Station

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Contribution ID: 88 Type: Poster

Production of Cyclotron-Based [68Ga]Gallium Chloride Precursor for the Synthesis of Related Radiopharmaceuticals

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Contribution ID: 89 Type: Contributed Oral

Improvement of the Molar Activity of Lead-203 via Targetry and Chromatographic Approaches

Wednesday, 24 August 2022 10:50 (20 minutes)

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Track Classification: Modeling

Contribution ID: 90 Type: Contributed Oral

Automated and Hard-Wired Safety Systems for Radionuclide Production: the Jülich Cyclotron Interlock System

Tuesday, 23 August 2022 08:20 (20 minutes)

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Contribution ID: 91 Type: Contributed Oral

Feedback on Energy Degraders Developed at Cyrcé Facility for Isotope Production

Thursday, 25 August 2022 13:40 (20 minutes)

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Contribution ID: 92 Type: Poster

Plasma Chamber Erosion in a CW H- Ion Source Powered by a Planar External RF Antenna

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