

Program

15-19 feb 2026



12th International Conference on Isotopes - 12ICI

Grand Hotel Mediterraneo
Lungarno del Tempio, 44 - 50121, Firenze

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dom 15 febbraio

14:00

13ICI Bidding Evaluation & WCI EC Meeting

Sessione | **Sede:** Grand Hotel Mediterraneo, Pacifico Room

18:00

14:00

Registration & Welcome

Sessione | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

18:00

18:00

Opening Ceremony & COMECER Scientific Boot Camp Awards

Sessione | **Sede:** Grand Hotel Mediterraneo, Florence

19:00

19:00

Welcome Party

Sessione | **Sede:** Grand Hotel Mediterraneo, Florence

21:00

lun 16 febbraio

08:30

Welcome addresses

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria Room

09:15

Institutional keynote speakers

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria Room

09:15-09:35 Institutional Contribution from NEA

09:35-09:55

Institutional Contribution from IAEA - "Harnessing isotopes for global benefits: The IAEA role and vision"

Relatore

Najat Mokhtar

09:55-10:15 Institutional Contribution from INFN

Relatore

Oscar Adriani

10:15-10:35

Institutional Contribution from ISIN - "ISIN, the Italian regulatory competent authority's expertise with a vision for the future"

Relatore

Massimo Altavilla

10:45

Photo of all participants

Sessione | Sede: Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

10:45

11:00

Coffee break

Sessione | Sede: Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

11:00

11:30

Plenary Session "Advances in Isotope Production and Applications" - Monday

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria Room

Descrizione

Advances in Isotope Production and Applications

11:30-12:00 ISOTOPES AND ELEMENTS FOR PAST AND FUTURE

Relatore

Mariaelena Fedi

12:00-12:30 NEW TRENDS IN PRODUCTION OF NOVEL MEDICAL RADIONUCLIDES

Relatore

Syed M. Qaim

12:45

12:50

Sponsor Session

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria Room

12:50-12:58

ITM'S INTEGRATED APPROACH TO SECURING AND SCALING MEDICAL RADIOISOTOPES FOR TARGETED THERAPIES

Relatore

Michael Siegl

13:20

13:30

Lunch & Poster Session

Sessione | Sede: Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

13:30-13:32

ESTABLISHMENT OF ASTATINE-211 PRODUCTION AND PURIFICATION PLATFORM AT KIRAMS

13:33-13:35

INNOVATIVE ELECTROCHEMICAL SEPARATION OF Ru-106: ADVANCING PURITY FOR OPHTHALMIC APPLICATIONS

Relatore

Simindokht Shirvani Arani

13:36-13:38

AN AUTOMATED SEPARATION METHOD FOR ISOLATING ZIRCONIUM-89 FROM NIOBIUM-BACKED YTTRIUM TARGETS

Relatore

Alisa Paterson

13:39-13:41

DESIGN AND FEASIBILITY STUDY FOR THE LARGE-SCALE PRODUCTION OF Cu-67 USING A HIGH-POWER LINAC ELECTRON BEAM

Relatore

Martin Kreller

13:45-13:47

FUNDAMENTAL RESEARCH ON THE PRODUCTION OF MEDICAL RADIOISOTOPES (Tb-161, Lu-177) USING JRR-3

Relatore

Shunsuke Fujino

13:48-13:50

ZnO MICROFLOWERS SYNTHESIS AS A WAY FOR CYCLOTRON TARGET RECYCLING FOR CU RADIONUCLIDES PRODUCTION

Relatore

Alessandro Niorettini

13:51-13:53

DEVELOPMENT AND OPTIMIZATION OF AN EXTRACTION CHROMATOGRAPHY PROTOCOL FOR HIGH-PURITY Tb-155 PRODUCTION

Relatore

Rebecca Napolitano

13:54-13:56

A STUDY ON THE PRODUCTION YIELD EVALUATION OF PM-147 USING MCNP-CINDER COUPLING IN A RESEARCH REACTOR ENVIRONMENT

Relatore

Kilyoung Ko

13:57-13:59

A SIMPLE TOOL FOR PHOTONUCLEAR ACTIVATION CALCULATION

Relatore

Erik Poenitz

14:00-14:02

REVIEW OF A HEAT TRANSFER-BASED EVALUATION FRAMEWORK FOR ISOTOPE TARGET INTEGRITY IN A CANDU REACTOR

Relatore

Taekyu Ham

14:03-14:05

CHROMATOGRAPHIC SEPARATION OF COPPER FROM SIMULATED ZINC AND NICKEL TARGETS

Relatore

Daniel Mcalister

14:06-14:08

CHROMATOGRAPHIC SEPARATION OF MANGANESE FROM SIMULATED CHROMIUM TARGETS

Relatore

Madeleine Eddy

14:09-14:11

A DEEP ANALYSIS OF Gd₂O₃ TARGETS FOR Tb-155 PRODUCTION WITH MEDICAL CYCLOTRONS

Relatore

Alisa Kotliarenko

14:12-14:14

CHARACTERIZATION OF EXTRACTION CHROMATOGRAPHIC RESINS BASED ON MONOAMIDE EXTRACTANTS FOR THE SEPARATION OF TRANSITION AND POST-TRANSITION METAL IONS

Relatore

Madeleine Eddy

14:15-14:17

MULTI COPPER AND GALLIUM RADIOISOTOPES PRODUCTION BY IRRADIATION OF ZnO TARGET VIA MEDICAL CYCLOTRON

Relatore

Petra Martini

14:18-14:20

DEVELOPMENT OF A SYSTEM FOR MEASURING BETA-RAY EMISSION RATE IN BETAVOLTAIC BATTERIES

Relatore

Jin Joo Kim

14:21-14:23

EXCITATION FUNCTION MEASUREMENTS OF Tb-149 IN THE B-10+Nd-142 SYSTEM

Relatore
rahbar ali

14:24-14:26

A NOVEL APPROACH FOR THE DEVELOPMENT OF TITANIUM CARBIDE TARGET FOR THE SPES ISOL FACILITY

Relatore
Antonietta Donzella

14:27-14:29

DEVELOPMENT OF AN AUTOMATED ELECTROPLATING SYSTEM FOR SOLID TARGET PREPARATION IN ALPHA EMITTER PRODUCTION

Relatore
Mario Malinconico

14:30-14:32

RADIOACTIVE ISOTOPE BEAM PRODUCTION WITH KoBRA AT RAONGEOPOLYMERS

Relatore
Dong Geon Kim

14:33-14:35

PRODUCTION OF INNOVATIVE RADIOISOTOPES FOR PERSONALIZED NUCLEAR MEDICINE IN ITALY

Relatore
Chiara Favaretto

14:36-14:38

SPS-PRODUCED YTTRIUM TARGET FOR OPTIMIZED Zr-89 PRODUCTION

Relatore
Emiliano Cazzola

14:42-14:44

TOWARDS CHEMICAL ENRICHMENT OF CA-48 VIA ELECTROPHORESIS

Relatore
Yuki Ishikawa

14:45-14:47

THERANOSTIC POTENTIAL OF $[^{64}\text{Cu}]\text{CuCl}_2$ TO OVERCOME CANCER HETEROGENEITY

Relatore
Alessandra Boschi

14:48-14:50

PRODUCTION OF Pb-203 AT GIP ARRONAX

Relatore
Thomas Sounalet

14:50-14:52

CHARACTERISTICS OF SECONDARY NEUTRONS IN F-18 PRODUCTION WITH MEDICAL CYCLOTRONS: A MONTE CARLO STUDY

Relatore
Yeijin Bang

14:52-14:54

RADIOLABELING OF GOLD NANOPARTICLES WITH Sc-44 FOR PET DIAGNOSIS OF CANCER

Relatore

Théo Demartinécourt

14:54-14:56

STUDY OF THE REACTION DYNAMICS FOR THE PRODUCTION OF Tm-167

Relatore

mohd usman

14:56-14:58

DOSIMETRIC EVALUATION OF ³²P RADIONUCLIDE THERAPY USING SILICA MICROPARTICLE CARRIERS

Relatore

Sung-Joon Ye

15:00

15:00

1. Isotopes Production and Devices - Mon_S2_A

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 1

15:00-15:20

CROSS SECTION MEASUREMENTS AND PRODUCTION OF Tm-165 VIA THE Ho-165(alpha,4n) REACTION: GENERATOR OF A PURE AUGER ELECTRON EMITTER, Er-165

Relatore

Etienne NIGRON

15:20-15:40

TOWARDS OPTIMIZED La-133 AND La-135 PRODUCTION THROUGH CROSS-SECTION MEASUREMENTS FROM BARIUM TARGETS

Relatore

Gaia Dellepiane

15:40-16:00

PRODUCTION OF TECHNETIUM RADIOISOTOPE BY ALPHA-PARTICLE BEAM IRRADIATION OF 93-NIOBIUM UP TO 50 MEV

Relatore

He Huang

16:00-16:15

CROSS SECTION RESULTS ABOUT THE TI-49(d,x) REACTION FOR THE PRODUCTION OF Sc-47 AND ITS CONTAMINANTS

Relatore

Lucia De Dominicis

16:15-16:30

EXCITATION FUNCTION MEASUREMENTS FOR RADIOISOTOPE PRODUCTION AT RIKEN

Relatore

Masayuki Aikawa

16:30

15:00

1. Isotopes Production and Devices - Mon_S2_B

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 2

15:00-15:20

RADIOISOTOPE RESEARCH AT THE BIRMINGHAM ACCELERATOR FACILITIES

Relatore

Carl Wheldon

15:20-15:40

RADIONUCLIDE PRODUCTION AT THE UNIVERSITY OF WISCONSIN - MADISON

Relatore

Jonathan Engle

15:40-16:00

ADVANCES IN RADIOISOTOPE PRODUCTION CAPABILITIES AT OAK RIDGE NATIONAL LABORATORY

Relatore

Susan Hogle

16:00-16:15

INNOVATIVE GA-68 AND ZR-89 PRODUCTION UTILIZING ALCEO AND SYNTHERA PLATFORMS: A NEW COMMERCIAL SOLUTION FOR RADIOPHARMACEUTICAL PRODUCTION

Relatore

Mario Malinconico

16:15-16:30

ONLINE MONITORING FOR COLUMN SEPARATION OF Lu-177 FROM ENRICHED Yb-176 IRRADIATED TARGET

Relatore

Kohshin Washiyama

16:30

15:01

2. Isotope Applications - Mon_S2_C - Young Session

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 3

15:01-15:16

MOLECULAR PLATING TECHNIQUE TO PREPARE THIN TARGETS FOR PRODUCTION CROSS SECTION MEASUREMENT OF THE nat-Gd(p,x)Tb-155 REACTION

Relatore

Vanessa RHODEN

15:16-15:31

MANGANESE-52: FROM CYCLOTRON PRODUCTION TO ELECTROCHEMICAL PURIFICATION AND PET/MR NANOPROBE FORMULATION

Relatore

Sanchita Ghosh

15:31-15:46

COBALT-60 GAMMA IRRADIATION FOR CULTURAL HERITAGE PRESERVATION: CASE STUDIES ON ARCHIVAL PAPER AND PARCHMENT

Relatore

Beatrice D'Orsi

15:46-16:01

ELECTRON-BEAM IRRADIATION OF FOODS: A SUSTAINABLE STRATEGY FOR ALLERGEN REDUCTION, MICROBIAL SAFETY, AND QUALITY ENHANCEMENT

Relatore

Sabrina A. Shaikh

16:01-16:16

MANUFACTURING AND RECYCLING OF ZnO TARGETS FOR Cu-67 PRODUCTION

Relatore

Gaja Piteo

16:16-16:18

PROBING MUON ISOTOPE PRODUCTION AND PAST ASTROPARTICLE FLUXES USING NUCLEAR RECOIL TRACKS IN PALEO-DETECTORS

Relatore

Claudio Galelli

16:30

15:02

5. Energy & Decommissioning - Mon_S2_D
Sessione | Sede: Grand Hotel Mediterraneo, Pacifico Room

15:02-15:22

WASTE TO WONDER - CARBON-14 INNOVATION

Relatore

Chris Horne

15:22-15:42

INNOVATIVE MATRIX FOR RADIOACTIVE WASTE CONDITIONING; GEOPOLYMERS AND DIATOMACEOUS EARTH

Relatore

Ozgur ILERI

15:42-16:02

3D GAMMA-RAY IMAGING IN NDA RADIOLOGICAL CHARACTERIZATION ACTIVITIES FOR DECOMMISSIONING AND WASTE MANAGEMENT

Relatore

Edoardo Gorello

16:02-16:16

PRELIMINARY RESULTS FROM THE DECOMMISSIONING OF AN ITALIAN COMMERCIAL PWR

Relatore

Giulio Salvadori

16:16-16:30

STATUS OF THE SIMβ-AD PROJECT: METHODOLOGY TO ESTIMATE ACTIVATION OF RADIOACTIVE WASTE PRODUCED BY CYCLOTRON FACILITIES

Relatore

Jean-Michel Horodyski

16:30

16:30

16:59

Coffee break
Sessione | Sede: Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

16:59

1. Isotopes Production and Devices - Mon_S3_A

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 1

16:59-17:19

EXPERIMENTAL STUDY OF EXCITATION FUNCTIONS FOR PROTON-INDUCED REACTIONS ON Pr-141

Relatore

Arshiya Anees Ahmed

17:19-17:39

COMPARISON BETWEEN DIFFERENT DIRECT PRODUCTION ROUTES OF THE THERANOSTIC Sc-47

Relatore

Liliana Mou

17:39-17:54

THE COPPER TRILOGY: EXPLORING Cu-61, Cu-64 AND Cu-67 AT THE BERN MEDICAL CYCLOTRON

Relatore

Gaia Dellepiane

17:54-18:09

DESIGN AND CONSTRUCTION OF GA-68 GENERATOR WITH MICROBEAD-BASED ABSORBENT

Relatore

Jun Young Lee

18:09-18:24

PREPARATION AND CHARACTERIZATION OF TERBIUM-161 AS A STEP TOWARDS CLINICAL TRANSLATION

Relatore

Małgorzata Żółtowska

18:30

17:00

1. Isotopes Production and Devices - Mon_S3_B

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 2

17:00-17:20

DEVELOPING PRODUCTION AND RADIOCHEMICAL SEPARATION FOR EMERGING RADIONUCLIDES FOR TARGETED RADIONUCLIDE THERAPY AT TRIUMF

Relatore

Valery Radchenko

17:20-17:40

RECENT ADVANCES IN NANTES AROUND THE ARRONAX FACILITY

Relatore

Arnaud GUERTIN

17:40-18:00

RADIONUCLIDES PRODUCTION FOR BIO-MEDICAL APPLICATIONS AT CERN-MEDICIS AND FOR THE PRISMAP EUROPEAN PROGRAM

Relatore

Edgars MAMIS

18:15-18:30

THE SPES_MED ACTIVITIES AT THE LEGNARO NATIONAL LABORATORIES

Relatore

Gaia Pupillo

18:30

17:01

2. Isotope Applications - Mon_S3_C - Young Session

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 3

17:01-17:16

TOWARDS SUSTAINABLE NANOCARRIERS FOR METAL-BASED DRUG DELIVERY: RADIOLABELING OF CELLULOSE NANOCRYSTALS WITH COPPER-61

Relatore

Alessia Sambugaro

17:16-17:31

UNLOCKING THE POTENTIAL OF ASTATINE-211 FOR TARGETED ALPHA THERAPY

Relatore

Anne Royer

17:31-17:46

INVESTIGATE QUANTITATIVE BREMSSTRAHLUNG IMAGING BY Ho-166

17:46-18:01

OPTIMIZING SCANDIUM-44 PRODUCTION AND RADIOLABELING FOR POTENTIAL CLINICAL APPLICATION IN NUCLEAR MEDICINE

Relatore

Marie Théry

18:01-18:16

PREDICTING RADIOBIOLOGICAL ENHANCEMENT: MONTE CARLO MODELING OF GOLD NANORODS AND RADIOPHARMACEUTICALS

Relatore

Lucrezia Bianchi

18:16-18:30

CYCLIC PEPTIDE CHELATORS FOR ENHANCED RADIUM SEPARATION AND RADIOPHARMACEUTICAL APPLICATIONS

Relatore

Xiao Hong

18:30

17:02

5. Energy & Decommissioning - Mon_S3_D

Sessione | **Sede:** Grand Hotel Mediterraneo, Pacifico Room

17:02-17:22

IMMOBILISATION OF CATIONIC AND ANIONIC RADIONUCLIDE SPECIES IN ZEOLITITE-BASED ACID GEOPOLYMERS

Relatore

Fabio Fattori

17:22-17:42

STRUCTURAL INSIGHTS INTO NOVEL CHELATORS FOR ACTINIDE AND LANTHANIDE SEPARATIONS

Relatore

Ilja Popovs

17:42-18:02

SPECIATION AND VOLATILITY OF TELLURIUM EVAPORATED FROM LEAD-BISMUTH EUTECTIC

Relatore

Vladislav Zobnin

18:02-18:22

ENABLING FUSION ENERGY - OPG'S TRITIUM LEGACY AND FUTURE

Relatore

Kirsten Lauritzen

18:32

mar 17 febbraio

09:00

Plenary Session "Advances in Isotope Production and Applications" - Tuesday

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria Room

Descrizione

"Advances in Isotope Production and Applications"

09:00-09:30

THERANOSTICS: RECENT ADVANCES IN THE DEVELOPMENT OF RADIOPHARMACEUTICALS FOR BRIDGING DIAGNOSIS AND THERAPY

Relatore

Bernd Neumaier

09:30-10:00

APPLICATION OF ACCELERATOR-BASED RADIOCARBON DATING TO FORENSICS

Relatore

Gianluca Quarta

10:00-10:30

ULTRA-LOW BACKGROUND GAMMA-RAY SPECTROMETRY LABORATORY FOR NUCLEAR SECURITY

Relatore

Stephen LaMont

10:30

10:30

Coffee break

Sessione | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

11:00

11:00

1. Isotopes Production and Devices - Tue_S1_A

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 1

11:00-11:20

RADIOMETALS PRODUCTION FROM LIQUID TARGETS: ICNAS EXPERIENCE

Relatore

Francisco Alves

11:20-11:40

TARGET DEVELOPMENTS FOR RESEARCH AND PRODUCTION OF RADIONUCLIDES AT GIP ARRONAX

Relatore

Thomas Sounalet

11:40-12:00

OPTIMIZING SOLID-TARGET PRODUCTION OF NON-CONVENTIONAL THERANOSTIC RADIONUCLIDES AT THE BERN MEDICAL CYCLOTRON

Relatore

Saverio Braccini

12:00-12:15

MULTI-PHYSICS DESIGN AND OPTIMIZATION OF Zr-89 PRODUCTION TARGET

Relatore

Ziming Li

12:15-12:30

DEVELOPMENT OF NI ELECTROPLATING FOR ⁶¹CU AND ⁶⁴CU PRODUCTION IN CLINICAL CYCLOTRONS: COSTA RICA CASE STUDY

Relatore

Jose Daniel Campos Mendez

12:30-12:45

R&D ON MEDICAL RADIONUCLIDE PRODUCTION AT INFN-LNL: FOCUS ON SOLID TARGET MANUFACTURING TECHNIQUES

Relatore

Sara Cisternino

12:45-13:00

ADDITIVE MANUFACTURING OF URANIUM CARBIDE TARGETS FOR THE PRODUCTION OF RADIOISOTOPES FOR NUCLEAR PHYSICS AND MEDICINE

Relatore

Rachel Eloirdi

13:00

11:00

1. Isotopes Production and Devices - Tue_S1_B

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 2

11:00-11:20

NOVEL RADIOISOTOPE PRODUCTION IN RESEARCH REACTORS IN POLAND AND EASTERN EUROPE

Relatore

Renata Mikolajczak

11:20-11:40

DEVELOPING A REACTOR-BASED ISOTOPE PRODUCTION ROADMAP IN KOREA WITH THE NEW RESEARCH REACTOR

Relatore

Seung-Kon Lee

11:40-12:00

THE USE OF LOW POWER RESEARCH REACTORS TO DEVELOP NEW PROTOCOLS IN THE PURSUIT OF EXOTIC RADIONUCLIDE PRODUCTION

Relatore

Andrea Gandini

12:00-12:15

THE FAILURE OF Pm-147 SOURCES: DAMAGING THE IMAGE OF THE ISOTOPE INDUSTRY

Relatore

Ivan Burianenko

12:15-12:30

PRODUCTION OF Iridium-192 AT THE HIGH FLUX ISOTOPE REACTOR

Relatore

Mikayla Duggan

12:30-12:45

KIJANG RESEARCH REACTOR LICENSING AND CONSTRUCTION STATUS**Relatore**

Kye Hong Lee

12:45-13:00

USE OR 3D PRINTING AS A TOOL FOR OPTIMIZING THE SYNTHESIS PROCESS OF 18F-FDG**Relatore**

Ernesto Corrales Corrales

13:00

11:01

2. Isotope Applications - Tue_S1_C**Sessione** | Sede: Grand Hotel Mediterraneo, Plenaria - Room 3

11:01-11:21

Cu-64 ENABLES NANOBODY-BASED MYELOID CELL PET IMAGING IN MULTI-CENTER TRANSLATIONAL WORKFLOWS**Relatore**

Andreas Maurer

11:21-11:41

RADIOACTIVE ¹¹C-ION BEAMS FOR SIMULTANEOUS TREATMENT AND IN-BEAM PET IMAGING OF MOUSE OSTEOSARCOMA MODEL**Relatore**

Martina Moglioni

11:41-12:01

KFSH&RC'S 45-YEAR RADIOPHARMACEUTICAL JOURNEY: A LEGACY OF INNOVATION, AUTOMATION, AND CLINICAL IMPACT**Relatore**

Mohammed Al-Qahtani

12:01-12:16

IMAGING PERFORMANCE OF A PLANAR SEGMENTED HPG_e DETECTOR FOR γ -RAY DETECTION AND QUANTIFICATION**Relatore**

Ahmed Alharbi

12:16-12:31

PRODUCTION OF RADIOACTIVE NANOPARTICLES OF Sc-44 AND Sc-43: PIONEERING THE FUTURE OF MEDICINE**Relatore**

Dipak Babar

12:31-12:45

DELAYED PET IMAGING OF PROSTATE CANCER USING LONG-LIVED RADIONUCLIDES**Relatore**

Mark Bartholomä

12:45-12:59

TC-99m LABELED COVALENT TARGETED FAPI FOR SPECT IMAGING

Relatore

Zhibo Liu

13:00

11:02

6. Security, Safety and Quality Assurance - Tue_S1_D**Sessione** | **Sede:** Grand Hotel Mediterraneo, Pacifico Room

11:02-11:22

NOVEL MICROWAVE DISSOLUTION METHODS FOR NUCLEAR FORENSICS APPLICATIONS**Relatore**

Jack Burgoyne

11:44-12:04

ANALYSIS OF SMALL SAMPLES OF SPENT NUCLEAR MATERIALS FOR INTERPRETING REACTOR OPERATING HISTORY**Relatore**

Brett Isselhardt

12:04-12:19

VALIDATION OF A FAST METHOD FOR DETERMINATION OF AM-241 IN NASAL MUCUS SAMPLES USING HIGH RESOLUTION GAMMA SPECTROMETRY**Relatore**

Michele Galletta

12:19-12:34

RAPID COLUMN-BASED SEPARATION OF KEY ACTINIDE AND FISSION PRODUCTS OF URANIUM FOR NUCLEAR FORENSIC ANALYSIS**Relatore**

Emily Paige Abel

12:34-12:48

SHORT-LIVED RADIONUCLIDES FOR INCORPORATION INTO RADIOLOGICAL RESPONSE AND NUCLEAR FORENSIC TRAINING MATERIALS**Relatore**

JUSTIN COOPER

12:48-13:02

UTEVA/DGA RESIN STACK FOR THE SEPARATION OF BOTH SHORT- AND LONG-LIVED ACTINIDES**Relatore**

Staci Herman

13:02

13:02

Lunch & Poster Session 2**Sessione** | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

13:04-13:06

A METHOD FOR HIGH-PURITY SEPARATION OF PROMETHIUM-147 BASED ON NEODYMIUM**Relatore**

Gujin Kang

13:06-13:08

SCALABLE β -RADIATION EXFOLIATION OF ZN-AL LDH: MECHANISTIC INSIGHTS INTO HIGH-FLUX NANOCOMPOSITE MEMBRANES**Relatore**

Muhammad Adli Bin Nor Azman

13:08-13:10

SUBSTANTIAL AMYLOID CLEARANCE IN PET IMAGING BUT MINIMAL COGNITIVE CHANGE AFTER SIX MONTHS OF LECANEMAB**Relatore**

JEE HYANG JEONG

13:10-13:12

OPTIMIZATION OF BEEF DIGESTION PROCEDURES FOR MULTIELEMENTAL DETERMINATION**Relatore**

Letícia de Lima

13:12-13:14

DEVELOPMENT OF A GREEN COFFEE BEAN REFERENCE MATERIAL FOR MULTI-ELEMENTAL ANALYSIS**Relatore**

Claudio Gonzaga

13:14-13:16

MONITORING OF GREENHOUSE GASES AND ISOTOPIC SIGNATURES IN URBAN CARBON CYCLES- A CASE STUDY IN GLIWICE, POLAND**Relatore**

Barbara Sensuła

13:16-13:18

BIOGEOCHEMICAL INVESTIGATION OF MANGROVE ECOSYSTEM TO GAUGE COASTAL ANOXIA AND ECOSYSTEM PROCESSES OF THE LAST 7800 CAL YEAR BP**Relatore**

Anand Rajoriya

13:18-13:20

RADHAWK: UAV FOR FAST-RESPONSE RADIOLOGICAL MAPPING**Relatore**

Nedime Irem Elek

13:22-13:24

INTEGRATION METHOD FOR DETERMINING THE POTENTIAL ALPHA ENERGY CONCENTRATION OF RADON AND THORON DECAY PRODUCTS IN AIR**Relatore**

Agata Grygier

13:24-13:26

SYNTHETIC ZEOLITES (3A, 4A, 5A, 13X, NaP1) AND THEIR APPLICATION IN REMOVING RADIUM AND BARIUM FROM WATER**Relatore**

Krzysztof Samolej

13:26-13:28

INTEGRATED ENVIRONMENTAL RADIOACTIVITY MONITORING BY THE HEALTH PHYSICS GROUP AT LASA: THE EYE RAD NETWORK AND ^{137}Cs TRANSFER IN DAIRY SYSTEMS**Relatore**

Flavia Maria Groppi

13:28-13:30

MEASURING TROPHIC TRANSFER OF CU INTO N. TRIANGULIFER FROM STROMWATER AND EFFLUENT SOURCES USING STABLE ISOTOPES**Relatore**

Timothy Vadas

13:30-13:32

RADON EXHALATION CAMPAIGN TO ESTIMATE GREENHOUSE GAS EMISSIONS USING THE 'RADON TRACER METHOD'**Relatore**

Serena Mancini

13:32-13:35

DERIVATION OF CROP TRANSFER FACTOR IN KOREA**Relatore**

Kwang Pyo Kim

13:35-13:37

NEUTRONIC FEASIBILITY STUDY OF DUAL-COOLED ANNULAR DUPLEX $\text{PuO}_2\text{-ThO}_2$ FUEL FOR NEXT-GENERATION PW-SMRS: ASSEMBLY LEVEL ANALYSIS

13:37-13:39

TOWARDS MORE SUSTAINABLE ADVANCED RECYCLING OF SPENT NUCLEAR FUEL**Relatore**

Massimiliano Federico Silvio Tentorio

13:39-13:41

DEVELOPMENT OF DEEP LEARNING BASED GAMMA SPECTROSCOPY TECHNIQUES FOR IN SITU MEASUREMENTS IN HIGH-RADIATION ENVIRONMENTS**Relatore**

Gujin Kang

13:41-13:43

EVALUATION AND MITIGATION OF PERSONNEL RADIATION EXPOSURE DURING RADIOISOTOPE PRODUCTION AT RESEARCH REACTORS**Relatore**

Tracy Tipping

13:43-13:45

OUTPUTS FROM EURAMET PROJECT 21GRD09 - MetroPOEM**Relatore**

Simon Jerome

13:45-13:47

DEVELOPMENT OF A COMPACT SPHERICAL RADIATION DETECTOR WITH ISOTROPIC SENSITIVITY FOR ENVIRONMENTAL MONITORING APPLICATIONS**Relatore**

Jeonghoon Lee

13:47-13:49

RECONSIDERING THE LINEAR NO-THRESHOLD MODEL: EVIDENCE OF ADAPTIVE RESPONSES FOLLOWING LOW-DOSE IONIZING RADIATION EXPOSURE**Relatore**

Nada Alsufyani

13:49-13:51

RAPID ANALYSES OF URANIUM AND THORIUM MOLTEN CHLORIDE SALTS FOR REACTOR SAFEGUARDS**Relatore**

Paige Abel

13:51-13:53

LISE MEITNER AND THE DISCOVERY OF NUCLEAR FISSION: A CASE OF MEMORY IN SCIENCE**Relatore**

Luisa Lovisetti

13:53-13:55

CASE STUDIES ON APPLICATION OF RADIATION DOSE ASSESSMENT PROGRAM**Relatore**

Kwang Pyo Kim

13:56-13:58

ROCKRAD: AN EDUCATIONAL TOOL FOR THE MEASUREMENT OF ROCK RADIOACTIVITY**Relatore**

Ghulam Hasnain

13:58-14:00

DESIGN OF A NaI(TI)-BASED RAPID SEAFOOD RADIOACTIVITY INSPECTION SYSTEM**Relatore**

Sunlee Shin

14:00-14:02

DOSE ASSESSMENT OF IONIZING RADIATION THROUGH RADIOSENSITIVE PROTEIN IGFPB3 IN MICE**Relatore**

Jufang Wang

14:02-14:04

SCAR TECHNOLOGY APPLICATION FOR RADIOCARBON MEASUREMENTS IN PHARMACEUTICAL RESEARCH**Relatore**

Luca Varricchio

14:04-14:06

MOCK YTTRIUM-90 GLASS SPHERE STANDARDIZATION FOR NUCLEAR MEDICINE APPLICATIONS**Relatore**

Raphael Galea

14:29

1. Isotopes Production and Devices - Tue_S2_A

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 1

14:29-14:44

PRODUCTION OF Pb-203 FOR IMAGING AT THE IBA CYCLONE 30XP IN JÜLICH

Relatore

Alexander Haseloer

14:44-14:59

TECHNETIUM-94m PRODUCTION BY CYCLOTRON IRRADIATION OF PHOSPHOMOLYBDIC ACID USING AN AUTOMATED LIQUID TARGET SYSTEM

Relatore

Chloe Green

14:59-15:14

A NOVEL ACCELERATOR-BASED SETUP FOR NATIONAL SCALE Mo-99 PRODUCTION: RADIATION PROTECTION ASPECTS

Relatore

David Ohm

15:14-15:29

TOWARDS RADIONUCLIDICALLY PURE N.C.A. Ho-166 VIA AN INDIRECT REACTOR PRODUCTION ROUTE FOR THERAPEUTIC APPLICATIONS

Relatore

Edoardo Renaldin

15:29-15:44

TOWARDS SUSTAINABLE PRODUCTION OF Ac-225 FROM Ra-226 FOR TARGETED ALPHA THERAPY

Relatore

Erika Jajčičinová

15:44-15:59

DEUTERON-INDUCED REACTIONS ON NATURAL ZIRCONIUM FROM THRESHOLD TO 50 MeV: PRODUCTION OF Y-86g

Relatore

Elise Malmer Martinsen

15:59-16:14

EXPANDING ACCESS TO THERANOSTIC Sc-47: BILAYER TARGETS OR LOW-ENERGY DEUTERON ROUTES

Relatore

Francesca Barbaro

16:14-16:29

PRODUCTION CROSS SECTION MEASUREMENTS OF Ag-111 WITH THE REACTION nat-Pd(alpha,X)

Relatore

Laurine Puren

16:30

14:30

1. Isotopes Production and Devices - Tue_S2_B

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 2

14:30-14:50

RADIOISOTOPES PRODUCTION WITH RFT-30 CYCLOTRON

Relatore

Jeong Hoon Park

14:50-15:10

THE SPES FACILITY AT LNL: STATUS AND PERSPECTIVES

Relatore

Tommaso Marchi

15:10-15:30

ACCELERATOR-BASED MEDICAL ISOTOPE PRODUCTION AT INSTITUTE OF MODERN PHYSICS (IMP)

Relatore

Zhi Qin

15:30-15:45

OPTIMIZATION AND VALIDATION OF THE INDIRECT Tb-155 PRODUCTION ROUTE IN THE APHRODITE-155 PROJECT

Relatore

Michele Colucci

15:45-16:00

THEORETICAL PERSPECTIVE ON THE PRODUCTION OF MEDICALLY PROMISING 110min AND Pt-193m BY CHARGED PARTICLE INDUCED REACTIONS

16:00-16:15

LONG-LIVED CONTAMINANTS IN Cu-61 LABELED BIOMOLECULES PRODUCED BY PROTON BOMBARDMENT OF Ni-61 ENRICHED TARGETS

Relatore

Robert Metzger

16:15-16:30

PRODUCTION OF HIGH RADIOISOTOPIC PURITY Se-73 FOR IN VIVO APPLICATION AT A 30 MeV CYCLOTRON

Relatore

Bernd Neumaier

16:30

14:31

2. Isotope Applications - Tue_S2_C

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 3

14:31-14:51

A COMPARISON OF COMPTON SUPPRESSION AND GAMMA-GAMMA COINCIDENCE IN NEUTRON ACTIVATION ANALYSIS: A REVIEW

Relatore

Sheldon Landsberger

14:51-15:11

MACHINA, THE MOVABLE ACCELERATOR FOR CULTURAL HERITAGE IN-SITU NON-DESTRUCTIVE ANALYSIS: FIRST RESULTS AND CASE STUDIES

Relatore

Caroline Czelusniak

15:11-15:31

CHNET_MAXI: OPTIMIZING MUONIC ATOM X-RAY AND PROMPT GAMMA SPECTROSCOPY FOR NON-DESTRUCTIVE LEAD ISOTOPIC RATIO ANALYSIS IN CULTURAL HERITAGE**Relatore**

Massimiliano Clemenza

15:31-15:46

PRODUCTION OF Al-26 AND Be-10 VIA NEUTRON REACTIONS IN SiO₂-ROCKS: IMPLICATIONS FOR BURIAL DATING RELATED TO THE CRADLE OF HUMANKIND--UNESCO WORLD HERITAGE SITE**Relatore**

Sara Rabaglia

15:46-16:01

BUILDING A RELIABLE SUPPLY CHAIN FOR YB-176**Relatore**

Sandra Barithel

16:01-16:16

ULTRACENTRIFUGATION TO BUILD A RELIABLE SUPPLY CHAIN FOR QUANTUM AND HEALTHCARE**Relatore**

Sandra Barithel

16:16-16:30

A LOOK AT THE PROBLEMS OF RADIONUCLIDE RAW MATERIAL SUPPLY FOR ISOTOPE PRODUCTION FROM THE PERSPECTIVE OF A SEALED SOURCE MANUFACTURER**Relatore**

Aleksandr Bespokoev

16:30

14:31

6. Security, Safety and Quality Assurance - Tue_S2_D

Sessione | Sede: Grand Hotel Mediterraneo, Pacifico Room

14:31-14:51

RADIOANALYTICAL DETERMINATIONS AND RADIOACTIVITY MEASUREMENTS IN THE FIELD OF RADIATION PROTECTION: THE EXPERIENCE OF THE INTEGRATED LABORATORY OF RADIOACTIVITY MEASUREMENT AND MONITORING OF THE ENEA RADIATION PROTECTION INSTITUTE**Relatore**

Daniela Goriatti

14:51-15:11

CAPACITY BUILDING FOR ISIN NUCLEAR EMERGENCY CENTRE: CONVEX-3 2025 EXERCISE EXPERIENCE**Relatore**

Luca Saverio Angelo Codispoti

15:11-15:31

ACTIVITY STANDARDIZATION OF Yb-175 TO STUDY ITS DECAY PROPERTIES**Relatore**

Marcell Péter Takács

15:31-15:45

METHOD OPTIMIZATION APPROACH APPLIED TO THE DETERMINATION OF Am-241 IN URINE IN EMERGENCY SITUATIONS**Relatore**

Daniela Gorietti

15:45-16:00

VALIDATION OF A QUALITATIVE METHOD FOR TOTAL BETA EMITTERS DETERMINATION IN URINE SAMPLES USING LIQUID SCINTILLATION COUNTING AND GAMMA SPECTROMETRY**Relatore**

Michele Galletta

16:00-16:15

THE TRANSPORT OF RADIOISOTOPES FOR MEDICAL USE: CRITICAL ISSUES AND INITIATIVES**Relatore**

Barbara Giannone

16:15-16:30

CHARACTERISATION OF ENVIRONMENTAL REFERENCE MATERIALS SPIKED WITH RADIONUCLIDES BY MASS SPECTROMETRY**Relatore**

Hélène ISNARD

16:30

16:30

Coffee break**Sessione** | Sede: Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

16:59

16:59

1. Isotopes Production and Devices - Tue_S3_A**Sessione** | Sede: Grand Hotel Mediterraneo, Plenaria - Room 1

16:59-17:14

OPERATIONALIZING A NUCLEAR DIGITAL TWIN FOR MEDICAL ISOTOPE IRRADIATION PLANNING TO MEET CLINICAL DEMAND**Relatore**

Soha Aslam

17:14-17:29

THE ISOLPHARM RADIONUCLIDE IMPLANTATION STATION FOR MEDICAL APPLICATIONS AT SPES**Relatore**

Davide Serafini

17:29-17:44

DATA-DRIVEN OPTIMIZATION OF TERBIUM PRODUCTION VIA $^{nat}\text{-Eu}(\alpha, x)$ REACTIONS: FROM EXPERIMENTS TO NSGA-II MODELLING**Relatore**

Michele Colucci

17:44-17:59

RADIOLANTHANIDE PRODUCTION IN CORE (RAPIC): USING COMMERCIAL NUCLEAR REACTORS FOR RADIONUCLIDE PRODUCTION

18:30

17:00

18:30

17:01

Relatore
Sofia Pasolini

17:59-18:14 **FEASIBILITY STUDY ON Ac-225 PRODUCTION USING BWR**

Relatore
Anzu Watanabe

18:14-18:29

PRELIMINARY EVALUATION OF Ac-225 PRODUCTION IN THE RSG-GAS REACTOR USING LEU ELECTROPLATING CAPSULE

Relatore
Amila Amatullah

1. Isotopes Production and Devices - Tue_S3_B
 Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 2

17:00-17:20

CYCLOTRON PRODUCTION OF MEDICAL RADIONUCLIDES WHICH DRIVE TODAY'S RESEARCH AT FORSCHUNGSZENTRUM JÜLICH

Relatore
Ingo Spahn

17:20-17:40

PRODUCTION OF RADIOISOTOPES FOR APPLICATION STUDIES AT RIKEN RI BEAM FACTORY: EXPLORING NEW ELEMENTS THROUGH CANCER THERAPY

Relatore
Hiromitsu Haba

17:40-18:00

PRODUCTION OF NOVEL AUGER ELECTRON EMITTING RADIONUCLIDES AT THE HEVESY LABORATORY

Relatore
Claire Deville

18:00-18:15

ACCELERATOR PRODUCTION OF THULIUM-166 AND THULIUM-167 RADIOISOTOPES FROM ALPHA-PARTICLES INDUCED REACTIONS ON HOLMIUM

Relatore
Ahmed Usman

18:15-18:30

THE TARGET-ION SOURCE UNIT FOR THE COMMISSIONING OF THE SPES FACILITY

Relatore
Michele Ballan

2. Isotope Applications - Tue_S3_C
 Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 3

17:01-17:21

THIN LAYER ACTIVATION OF NON-METALLIC MATERIAL BY USING THE nat-C(3He,x) Be-7 NUCLEAR REACTION BASED ON THE CARBON CONTENT

Relatore
Ferenc Ditroi

17:21-17:41

CHALLENGES IN MEASUREMENTS OF ENRICHMENT OF Si-28 AS SILANE BY USING TOF-MS**Relatore**

Dag Eriksen

17:41-18:01

STABLE ISOTOPE RAMAN MICROSCOPY AS NOVEL APPROACH TO STUDY MICROBIAL DEGRADATION OF MICROPLASTICS**Relatore**

Natalia Ivleva

18:01-18:16

RECENT DEVELOPMENTS IN NEUTRON BEAM CHARACTERIZATION AT THE RAON NDPS**Relatore**

Geonhee Oh

18:16-18:30

DIGITAL $4\pi\beta$ (TDCR)- γ COINCIDENCE COUNTING AT THE BIPM USING A MODIFIED TDCR SYSTEM**Relatore**

Romain Coulon

18:30

17:01

6. Security, Safety and Quality Assurance - Tue_S3_D**Sessione** | **Sede:** Grand Hotel Mediterraneo, Pacifico Room

17:01-17:21

DYE BASED RADIO-CHROMIC DOSIMETERS FOR MEDICAL AND ENVIRONMENTAL APPLICATIONS**Relatore**

Hagos Tesfay Medhin

17:21-17:41

RAPID DETECTION OF THORIUM, RADIUM, AND ACTINIUM IMPURITIES IN Th-228 DECAY SERIES ISOTOPE PRODUCTS**Relatore**

Madeleine Eddy

17:41-18:01

PARTICLE SIZE CHARACTERIZATION OF $^{238}\text{PuO}_2$ PARTICLES VIA AUTORADIOGRAPHY AND SCANNING ELECTRON MICROSCOPY AUTOMATED PARTICLE ANALYSIS FOR INCIDENT RESPONSE**Relatore**

Kimberly Wurth

18:01-18:16

IMPLEMENTATION OF A QUALITY MANAGEMENT SYSTEM IN A CYCLOTRON-PET/CT RADIOPHARMACEUTICAL PRODUCTION LABORATORY**Relatore**

Ana María Guzmán Jiménez

18:16-18:30

VALIDATION OF A SIMPLIFIED METHOD FOR THE DETERMINATION OF AMINOPOLYETHER AS PART OF THE QUALITY CONTROL OF ^{18}F -FDG

Relatore

Ana María Guzmán Jiménez

18:30

mer 18 febbraio

08:00

Plenary Session - Wed & Panel 4. Policy, Economics, and Global Impact of Isotope Production and Use**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria Room08:00-08:20 **Keynote speaker - Panel PEU****Relatore**

James Scongack

09:00

09:00

President Forum: The Isotope Eco-System and Building Resiliency**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria Room | **Conveners:** Paul T. Dickman, Bernard Ponsard09:00-10:30 **The WCI President Forum****Relatori**

Bernard Ponsard, Paul T. Dickman

Sottocontributi**Panel Members****Relatori**

Greg Moffitt, Anikitos Garofalakis, Melody Greaves, Monica Regalbuto

10:30

10:30

Coffee break**Sessione** | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

10:59

10:59

1. Isotopes Production and Devices - Wed_S1_A**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 110:59-11:19 **COMPACT LINEAR ACCELERATORS FOR RADIOISOTOPE PRODUCTION****Relatore**

Alessandra Lombardi

11:19-11:39

 α -PARTICLE-EMITTING MEDICAL-ISOTOPE PRODUCTION FACILITY BASED ON A HIGH INTENSITY PROTON SUPERCONDUCTING LINAC ACCELERATOR**Relatore**

Hongwei Zhao

11:39-11:59

RESONANT IONIZATION LASER ION SOURCE FOR HIGH-PURITY RADIOACTIVE ION BEAMS AT SPES, INFN-LNL**Relatore**

Omorjit Singh Khwairakpam

12:00-12:15

RADIOISOTOPE PRODUCTION WITH HIGH-POWER LASERS: HOW TO APPROACH

Relatore

Dimiter Balabanski

12:15-12:30

ADVANCING THERANOSTIC RADIOISOTOPE PRODUCTION THROUGH ION LINEAR ACCELERATOR BASED TECHNOLOGIES**Relatore**

Eleni Vagena

12:30-12:45

POWERING THE FUTURE OF NUCLEAR MEDICINE: SCALABLE SOLUTIONS FOR GLOBAL ISOTOPE DEMAND**Relatore**

John Burta

12:45-13:00

FIRST MEASUREMENT OF At-210,211 CROSS SECTIONS USING THE GANIL SPIRAL2 LINAC**Relatore**

Anne-Marie Frelin

13:00

11:00

3. Isotopes in the Environment - Wed_S1_B**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 2

11:00-11:20

ENVIRONMENTAL RADIOACTIVITY MAPPING IN ITALY: INSIGHT FROM THE ITALRAD PROJECT**Relatore**

Fabio Mantovani

11:20-11:40

ASSESSMENT OF RADON AND RADIUM IN DRINKING SPRING WATER IN THE REGION OF BEIRA INTERIOR, PORTUGAL**Relatore**

Caroline Licour

11:40-12:00

TIME-RESOLVED GAMMA SPECTROMETRY FOR DISENTANGLING NATURAL AND ANTHROPOGENIC AIRBORNE RADIONUCLIDES**Relatore**

Nedime Irem Elek

12:00-12:20

FROM SOIL TO TREE: ELEMENTAL DRIVERS FOR TIMBER TRACEABILITY**Relatore**

Gabriele Rossini Moreira

12:20-12:40

RADIOXEON MEASUREMENTS AND SOURCES IN ATLANTA, GEORGIA, USA**Relatore**

Steven Biegalski

13:00

11:01

2. Isotope Applications - Wed_S1_C

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 3

11:21-11:41

188-Re-LABELED PSMA INHIBITOR FOR SPECT IMAGING AND TARGETED RADIONUCLIDE THERAPY

Relatore
Zhibo Liu

11:41-12:01

161-Tb-LABELED GASTRIN ANALOGUE AS A NOVEL TOOL FOR PRECISION TREATMENT OF ADVANCED MEDULLARY THYROID CANCER - STUDY DESIGN OF A PROSPECTIVE PHASE I/II CLINICAL TRIAL (ACRONYM: MTC-Tb)

Relatore
Renata Mikolajczak

12:16-12:30

ADVANTAGES OF COBALT-60 IN BRAIN RADIOSURGERY

Relatore
Riccardo Bevilacqua

12:31-12:46

APPLICATION OF THE I-125 ISOTOPE FOR DEVELOPMENT OF A RADIOBIOASSAY FOR QUANTIFICATION OF HUMAN C-REACTIVE PROTEIN

Relatore
Ghodke Tanhaji Sandu

12:46-13:00

RADIOBIOLOGY EXPERIMENTS WITH Ag-111 FOR THE ISOLPHARM PROJECT

Relatore
Aurora Leso

13:00

11:02

7. Education - Wed_S1_D

Sessione | **Sede:** Grand Hotel Mediterraneo, Pacifico Room

11:02-11:22

ADVANCING GLOBAL COMPETENCE IN DIAGNOSTIC AND THERAPEUTIC RADIOISOTOPES AND RADIOPHARMACEUTICALS THROUGH E-LEARNING AND LAB-TRAINING: COLLABORATION BETWEEN WCI, IAEA AND KAERI

Relatore
Syed Qaim

11:22-11:42

CHERNE, 20 YEARS OF AN INTERNATIONAL NETWORK FOCUSED ON STUDENTS

Relatore
Isabelle Gerardy

11:42-12:02

PARTICLE THERAPY MASTERCLASS AS MEANS OF CAPACITY BUILDING

Relatore
Yiota Foka

12:02-12:17

DEVELOPING THE NEXT GENERATION OF ISOTOPE SCIENTISTS: A MIDPOINT REVIEW

Relatore

Braden Goddard

12:17-12:32

THE CINCH HUB PLATFORM FOR SUSTAINABLE E&T IN NUCLEAR AND RADIOCHEMISTRY**Relatore**

Elena Macerata

12:32-12:47

NORWEGIAN NUCLEAR RESEARCH CENTRE**Relatore**

Simon Jerome

12:47-13:00

MODERN INSTRUMENTATION FOR PHYSICS EDUCATION: A FOCUS ON RADIOACTIVITY**Relatore**

Cristina Mattone

13:00

13:00

Lunch & Poster Session**Sessione** | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

14:29

14:29

1. Isotopes Production and Devices - Wed_S2_A**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 1

14:29-14:49

ISOTOPE ISOLATION FROM MASSIVE PROTON-IRRADIATED TARGETS AT LOS ALAMOS NATIONAL LABORATORY**Relatore**

Veronika Mocko

14:49-15:09

FROM ACCELERATOR WASTE TO RESEARCH: ISOLATION AND USE OF LONG-LIVED RADIONUCLIDES AT THE PAUL SCHERRER INSTITUTE**Relatore**

Zeynep Talip

15:09-15:29

TOWARDS RELIABLE SUPPLY OF RADIOISOTOPICALLY PURE TERBIUM: CAN MOLECULAR EXTRACTION COMBINED WITH MASS SEPARATION BRING US CLOSER TO THE CLINICS?**Relatore**

Wiktoria Wojtaczka

15:29-15:44

A SEMIAUTOMATED SYSTEM FOR SAFE AND CLEAN PURIFICATION OF RUTHENIUM-106 FROM FISSION PRODUCTS: ENABLING PRACTICALITY FOR OPHTHALMIC APPLICATIONS**Relatore**

Simindokht Shirvani Arani

15:44-15:59

INDIRECT PRODUCTION OF Tb-155 USING NATURAL TERBIUM TARGETS: A TWO-STEP RADIOCHEMICAL SEPARATION APPROACH**Relatore**

Anzhelika N. Moiseeva

15:59-16:14

OPTIMIZATION OF Ga-68 SEPARATION FROM SOLID TARGETS IRRADIATED AT A MEDICAL CYCLOTRON**Relatore**

Pascal Grundler

16:14-16:29

DEVELOPMENT OF A ROBUST METHOD FOR ISOLATION OF I-124 PRODUCED VIA Te-124(p,n)I-124 REACTION FOR RADIOPHARMACEUTICAL PREPARATION**Relatore**

Rajwardhan Ambade

16:30

14:30

3. Isotopes in the Environment - Wed_S2_B

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 2

14:30-14:50

THE APPROPRIATE ENVIRONMENTAL SAMPLE TO EDUCATE NOVICE STUDENTS IN ENVIRONMENTAL RADIOACTIVITY MEASUREMENTS USING GAMMA RAY SPECTROSCOPY**Relatore**

Sheldon Landsberger

14:50-15:10

MANAGEMENT OF TECHNOLOGICALLY ENHANCED RADIOACTIVE MATERIAL (TENORM) IN THE OIL&GAS COMPANIES ACTIVITIES, THE ENI EXPERIENCE.**Relatore**

Giuseppe Lepori

15:45-15:47

MACHINE LEARNING ALGORITHMS FOR SOIL TEXTURE PREDICTION FROM AIRBORNE RADIOMETRIC SURVEYS**Relatore**

Nedime Irem Elek

16:00-16:15

RADIOTRACERS FOR THE STUDY OF MARINE AND OCEANIC ECOSYSTEM: THE CLIMOCEAN PROJECT**Relatore**

Simone Rocca

16:15-16:30

CONDITIONS FOR SYNTHESIS OF ²⁰³[HG]METHYL MERCURY IN BUFFERED SOLUTIONS: INVESTIGATING MECHANISMS OF MERCURY LOSS AND CHEMICAL STABILITY**Relatore**

Flora Mansour

16:30

14:31

2. Isotope Applications - Wed_S2_C

Sessione | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 3

14:31-14:51

NANOMEDICINE APPROACHES FOR TARGETED ALPHA THERAPY AND THERANOSTICS

Relatore

Sandra Davern

14:51-15:11

HUMAN SERUM ALBUMIN COATED DYSPROSIUM OXIDE NANOPARTICLES AS IN VIVO GENERATOR OF Dy-166/Ho-166

Relatore

Sanchita Ghosh

15:11-15:31

RADIOLABELLING OF AN OCTADENTATE BISPIDINE LIGAND WITH THERANOSTIC PAIR OF SCANDIUM

Relatore

Théo Demartinécourt

15:31-15:46

FULLY AUTOMATED RADIOACTIVE COPPER NANOPARTICLE SYNTHESIS: TARGET DEVELOPMENT, SEPARATION, AND SYNTHESIS

Relatore

Volkan Yasakci

15:46-16:01

IN VITRO OPTIMIZATION OF IEDDA CLICK RADIOLABELING TOWARD THE DEVELOPMENT OF PRETARGETED IMAGING

Relatore

Feng-Yun Jimmy Huang

16:01-16:15

IN VITRO EVALUATION OF Ga-68/Lu-177 ANTI-HER2 PRETARGETED RADIOIMMUNOTHERAPY PLATFORM USING BIOORTHOGONAL CLICK CHEMISTRY

Relatore

Ching-Wen Cheng

16:16-16:29

$\alpha\beta 6$ -INTEGRIN AS A THERANOSTIC TARGET: ADDRESSING CANCERS AND NON-CANCER DISEASES WITH VARIOUS NUCLIDES

Relatore

Johannes Notni

16:30

14:31

9. Young Scientists - Wed_S2_D

Sessione | **Sede:** Grand Hotel Mediterraneo, Pacifico Room

14:31-14:46

MACHINE LEARNING CLASSIFICATION FOR IRRADIATED MATERIAL GAMMA RAY SPECTRA

Relatore

Abigail Taylor

14:46-15:01

A HISTORICAL RECONSTRUCTION OF THE CONCEPT OF ISOTOPE AND ITS EDUCATIONAL VALUE**Relatore**

Luisa Lovisetti

15:01-15:16

EXPERIENTIAL LEARNING FOR HIGH SCHOOL STUDENTS TO MEASURE NATURAL RADIOACTIVITY USING PORTABLE GAMMA RAY DETECTOR**Relatore**

Ghulam Hasnain

15:16-15:31

IMPACT OF B⁻EMITTING RADIONUCLIDES PROPERTIES ON DOSIMETRIC OUTCOMES OF TUMOR-TARGETING RADIOPHARMACEUTICALS**Relatore**

Samuele De Zan

15:31-15:46

PRIMARY STANDARDISATION AND γ -Ray EMISSION PROBABILITY OF ¹⁶⁶Ho-m AT NRC**Relatore**

Alexandra Bourgouin

16:01-16:16

IMPROVEMENT OF RADIOACTIVE GAS RETENTION SYSTEM DURING 18F-FDG PRODUCTION**Relatore**

Ernesto Corrales Corrales

16:16-16:30

GEANT4 IMAGE-BASED CELLULAR DOSIMETRY FOR IN-VITRO AG-111-IRRADIATED LNCaP CELLS WITHIN THE ISOLPHARM PROJECT**Relatore**

Giulia Saveria Valli

16:30

16:30

Coffee break**Sessione** | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

16:59

16:59

1. Isotopes Production and Devices - Wed_S3_A**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 1

16:59-17:19

EVALUATION AND OPTIMISATION OF DATA FOR ACCELERATOR-BASED PRODUCTION OF MEDICALLY RELEVANT RADIONUCLIDES**Relatore**

Nouman Amjed

17:19-17:39

FILLING PHOTONUCLEAR DATA GAPS IN SUPPORT OF ISOTOPE PRODUCTION**Relatore**

Daniel Dale

17:39-17:59

MEASUREMENTS OF NUCLEAR REACTION CROSS SECTIONS USING A TANDEM ACCELERATOR AND A TRIGA REACTOR: DEVELOPMENT OF PRODUCTION ROUTES OF SOME NOVEL MEDICAL RADIONUCLIDES**Relatore**

Md. Shuza Uddin

17:59-18:14

MEDICAL RADIONUCLIDE PRODUCTION R&D AT THE BERKELEY NUCLEAR DATA PROGRAM**Relatore**

Andrew Voyles

18:30

17:00

1. Isotopes Production and Devices - Wed_S3_B**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 2

17:00-17:20

ISOTOPE MASS-SEPARATION: RECENT DEVELOPMENTS FOR CLINICAL RESEARCH AT CERN-MEDICIS AND FOR PRISMAP**Relatore**

Thierry Stora

17:20-17:40

SECURING THE PRODUCTION OF RADIOISOTOPES IN RESEARCH AND POWER REACTORS**Relatore**

Bernard Ponsard

17:40-18:00

THE SPES ISOL FACILITY: COMMISSIONING WITH RADIOACTIVE ION BEAMS AND FUTURE DEVELOPMENTS AT LEGNARO NATIONAL LABORATORIES**Relatore**

Mattia Manzolaro

18:00-18:15

PRODUCTION OF Co-55 THROUGH AUTOMATED ELECTROPLATING AND PURIFICATION TECHNIQUES**Relatore**

Mario Malinconico

18:15-18:30

A THEORETICAL FRAMEWORK FOR ISOTOPE PRODUCTION AT THE SPES ISOL FACILITY: MAGNESIUM-28 AS A CASE-STUDY**Relatore**

Alberto Arzenton

18:30

17:00

4. Policy, Economics, and Global Impact of Isotope Production and Use - Wed_S3_C**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria - Room 3

17:00-17:25

ALONG THE WAY TO REALIZING RADIOPHARMACEUTICAL'S POTENTIAL

Relatore
Ram Mullur

17:25-17:45

PUBLIC PERCEPTION AND POLICY IN THE NUCLEAR RENAISSANCE: CIVIC ENGAGEMENT AND LESSONS FROM THE ITALIAN EXPERIENCE

Relatore
Raffaella Di Sipio

17:45-18:00

ATOMS FOR ALL? RETHINKING EQUITY IN GLOBAL NUCLEAR GOVERNANCE THROUGH THE LENS OF PEACEFUL RESEARCH REACTOR ACCESS

Relatore
Anam Murad Khan

18:00-18:14

THE JAPAN ASTATINE COMMUNITY: TOWARD A COLLECTIVE BRAIN IN ²¹¹At SCIENCE AND CLINICAL TRANSLATION

Relatore
Kohshin Washiyama

18:14-18:29

CNL INTEGRATED ISOTOPES STRATEGY: ADVANCING CANADA'S POSITION IN THE GLOBAL ISOTOPE ECOSYSTEM

Relatore
Randy Perron

18:30

17:02

9. Young Scientists - Wed_S3_D

Sessione | **Sede:** Grand Hotel Mediterraneo, Pacifico Room

17:02-17:17

TRACEABILITY OF LOW-LEVEL Ra-226 ISOTOPE MEASUREMENT FOR LONG-TERM ENVIRONMENTAL METROLOGY

Relatore
SAMIM MOLLA

17:17-17:32

TRACEABILITY OF BRAZILIAN BELT SOYBEAN SUPPORTED BY ANALYTICAL TECHNIQUES AND MACHINE LEARNING APPROACHES

Relatore
Robson Campos de Lima

17:32-17:47

SOIL TO PLANT TRANSFER FACTOR DEPENDS ON GROWTH CYCLE: THE USE OF SUNFLOWERS FOR PHYTOREMEDIATION OF RADIONUCLIDE-CONTAMINATED SOIL

Relatore
Hannah Keßler

17:47-18:02

DIRECT CONDITIONING OF RADIOACTIVE LIQUID ORGANIC WASTE IN NOVEL GEOPOLYMERS: A DURABILITY AND ROBUSTNESS STUDY

Relatore
Simona Sandalova

18:02-18:17

FEASIBILITY STUDY ON AN OPTIMIZED GAMMA RAY SCREENING METHODOLOGY FOR A MEDICAL CYCLOTRON BODY USING MONTE CARLO SIMULATIONS

Relatore

Seungbeom Goh

18:17-18:32

DEVELOPMENT OF SEPARATION METHOD FOR DIFFICULT-TO-MEASURE RADIONUCLIDES FROM NUCLEAR DECOMMISSIONING

Relatore

Eya ABED

18:33

19:15

Transfert to Piazzale Michelangelo by bus

Sessione | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

19:45

20:00

Gala Dinner & Award Ceremony

Sessione | **Sede:** Piazzale Michelangelo, Florence, Italy, "La Loggia" Restaurant

23:30

gio 19 febbraio

08:59

1. Isotopes Production and Devices - Thu_S1_A

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 1

08:59-09:19

PRODUCTION OF NO-CARRIER-ADDED HOLMIUM-166 BY DOUBLE NEUTRON CAPTURE AT MCMASTER NUCLEAR REACTOR

Relatore

Karin Nielsen

09:19-09:39

SIMULTANEOUS Ac-225 & Pb-212 PRODUCTION USING ACCELERATOR-PRODUCED SECONDARY NEUTRONS

Relatore

Lee Bernstein

09:39-09:59

PRODUCTION OF THERAGNOSTIC RADIONUCLIDES WITH NEUTRON ACTIVATOR: FESTA EXPERIMENTS

Relatore

Jean-Michel Horodynski

10:00

09:00

1. Isotopes Production and Devices - Thu_S1_B

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 2

09:00-09:20

EMERGING ACCELERATOR-BASED RADIONUCLIDES TOWARDS THE THERAGNOSTICS PRINCIPLE: DEVELOPMENT AND TRANSLATION

Relatore

Nick van der Meulen

09:20-09:40

DEMONSTRATING THE RADIONUCLIDIC PURITY OF ACTINIUM-225 PRODUCED FROM A RADIUM-225 GENERATOR

Relatore

Frank Scholz

09:40-10:00

APHRODITE-155 ACCELERATOR-BASED PRODUCTION OF THERANOSTIC RADIONUCLIDES: INVESTIGATIONS ON TERBIUM-155

Relatore

Petra Martini

10:00

09:01

2. Isotope Applications - Thu_S1_C

Sessione | Sede: Grand Hotel Mediterraneo, Plenaria - Room 3

09:01-09:21

GREEN & SUSTAINABLE APPROACHES TO ISOTOPE LABELLING

Relatore

Ross Jansen van Vuuren

09:21-09:40

EFFICIENT SCREENING OF CATION EXCHANGE RESINS FOR RADIOLANTHANIDE SEPARATIONS**Relatore**

Flora Mansour

09:40-10:00

EFFICIENT SYNTHESIS OF [68GA]GA-LABELED BIVALENT HER2 PEPTIDE PROBE ENABLED BY CBT/1,2-AMINOTHIOL BIOORTHOGONAL CLICK CHEMISTRY**Relatore**

Kuo-Ting Chen

10:00

09:02

7. Education - Thu_S1_D**Sessione** | **Sede:** Grand Hotel Mediterraneo, Pacifico Room

09:02-09:22

INTEGRATING AI-DRIVEN TOOLS AND VIRTUAL LABORATORIES IN RADIOISOTOPE HANDLING TRAINING**Relatore**

Elena Macerata

09:22-09:41

LINKEDIN AS THE NEW CLASSROOM: STORYTELLING AND AI FOR NUCLEAR COMMUNICATION**Relatore**

Riccardo Bevilacqua

09:41-10:00

INFN TRAINING AND EDUCATIONAL ACTIVITIES ON RADIATION PROTECTION AND IONIZING RADIATION**Relatore**

Flavia Maria Groppi

10:00

10:00

Coffee break**Sessione** | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

10:30

10:30

8. Marie Curie Session - Thu_S2**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria Room | **Convener:** Meera Venkatesh

10:30-12:00

Marie Curie**Sottocontributi****Panel Members****Relatori**

Tzany Kokalova, Renata Mikolajczak, Petra Martini, Lee Bernstein

12:00

12:00

Final remarks & Closing Ceremony**Sessione** | **Sede:** Grand Hotel Mediterraneo, Plenaria Room

13:00

13:00

Lunch

Sessione | **Sede:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

14:00

14:30

Technical Tour

Sessione | **Sede:** Sesto Fiorentino, Florence, Italy , LABEC, Sesto Fiorentino (FI)

18:30