



ERPW2024

European Radiation Protection Week 2024

11th-15th November 2024 | ROME

Organized by



In collaboration with



MELODI



NERIS



RENEB



Welcome Message

On behalf of the Organizing Committee, we wish to welcome you to the 2024 European Radiation Protection Week (ERPW).

European Radiation Protection Week (ERPW) is an annual, multidisciplinary event, which, under the Consortium of European Radiation Research Platforms (MEENAS), brings together experts and addresses topics related to radiation protection.

The ERPW meeting series was initiated in 2016 in Oxford (UK) and is supported by the European Radiation Research Platforms: MELODI (Multidisciplinary European Low Dose Initiative), EURADOS (European Radiation Dosimetry Group), EURAMED (European Alliance for Medical Radiation Protection Research), NERIS (European Platform on Preparedness for Nuclear and Radiological Emergency Response and Recovery), ALLIANCE (European Radioecology Alliance), and SHARE (European Platform for Social Sciences and Humanities in Ionising Radiation Research).

ERPW 2024 is being organized by Istituto Superiore di Sanità (ISS), Rome, and by the Italian Association of Radiation Protection (AIRP).

The conference aims to create a context for the presentation of scientific results aspiring to knowledge, sharing and discussion of current and emerging issues related to radiation protection research, and to provide a space for the exchange of ideas and the establishment of collaborative links.

We would like to express our sincere thanks to all the sponsors and patrons who have made this event possible.

The ERPW 2024 is about to start, enjoy the conference!

November 2024

ERPW 2024 Chair

For updates, visit the conference website:



Committees

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ERPW 2024 Venue

The ERPW 2024 conference will be held at the **Aurelia Auditorium Congress Center**, Via Aurelia 796, Rome



You can reach the conference venue by taxi or metro.

- From **Termini station** take the A Line towards Battistini and get off at Cornelia metro station (Piazza Irnerio exit). Then take bus 246 (Malagrotta direction) or, at the beginning of Via Aurelia, take bus 247 and get off at Aurelia Marvasi bus stop. At about 150 metres away, you will find the congress centre. Consider about 40 minutes to reach the venue.
- **Leonardo da Vinci International Airport** (Fiumicino) is 20 km away from the conference venue. From there you can take a taxi or the direct 'Leonardo Express' train to Termini Station. Consider about 80 minutes to reach the venue.
- From **Ciampino Airport** take the direct bus connection to Termini Station. Consider about 80 minutes to reach the venue.
- For more information, visit the conference venue website:





ERPW 2024 Social Events

WELCOME PARTY

Tuesday, November 12, 2024 at 19:00

The ERPW 2024 Welcome Party will be held at **Aurelia Auditorium Congress Center**, Via Aurelia 796, Rome

GALA DINNER

Wednesday, November 13, 2024 at 20:30

The ERPW 2024 Gala Dinner will be held at **Scuderie San Carlo**, Via Portuense, 959, 00148, Rome



Conference Programme Outline

TUESDAY - November 12, 2024			
08:30 - 09:30	Registration (Foyer)		
09:30 - 10:00	Welcome (Auditorium)		
10:00 - 10:30	Plenary lecture - <i>Cristina NUCCETELLI</i> (Auditorium)		
10:30 - 11:10	Session 1 (Auditorium)		
11:10 – 11:40	Coffee break		
11:40 – 12:56	Session 1 (Auditorium)		
13:00 – 14:00	Lunch		
14:00 -15:40	Session 2A Auditorium 14:00 – 15:20	Session 2B Sirio 14:00 – 15:20	Session 2C Vega 14:00 – 15:40
	Session Poster P1 Foyer 15:20– 15:40		
15:40 – 16:10	Coffee break		
16:10 – 18:10	Session 3A Auditorium 16:10 – 18:10	Session 3B Sirio 16:10 – 17:38	Session 3C Vega 16:10 – 17:46
	Session Poster P2 Foyer 17:40– 18:10	Tech Sharing Corner– Foyer 17:40-18:10	
18:10 – 18:40	MELODI Awards– Auditorium		
19:00	Welcome party		

WEDNESDAY - November 13, 2024			
09:00- 09:30	Plenary Lecture - <i>Christophe BADIE</i> – Auditorium		
09:30 - 11:00	Session 4 – Auditorium		
11:00 - 11:30	Coffee break		
11:30 -13:00	Session 5A Auditorium 11:30 – 12:26	Session 5B Sirio 11:30 – 12:22	
	Session Poster P3 Foyer 12:25– 13:00		
13:00 – 14:00	Lunch		
14:00 – 15:40	Session 6A Auditorium 14:00 – 15:40	Session 6B Sirio 14:00 – 15:24	Tech Sharing Corner Foyer 14:00 – 15:40
15:40 – 16:10	Coffee break		
16:10 – 18:23	Session 7A Auditorium 16:10 – 16:46 Session 7B Auditorium 16:50– 18:30	Session 7C Sirio 16:10 – 18:14	Session 7D Vega 16:10 – 18:22
20:30	Gala dinner		

THURSDAY - November 14, 2024

09:00 - 09:30	Plenary Lecture – <i>Vincenzo VALENTINI</i> – Auditorium		
09:30 - 11:00	Session 8 – Auditorium		
11:00 - 11:30	Coffee break		
11:30 – 13:00	Session 9 – Auditorium		
13:00 – 14:00	Lunch		
14:00 – 15:30	Session 10A Auditorium 14:00 – 15:00	Session 10B Sirio 14:00 – 15:08	Session 10C Vega 14:00 – 14:56
	Session Poster P4 Foyer 15:00 – 15:30		Tech Sharing Corner Foyer 15:00-15:30
15:30 – 16:00	Coffee break		
16:00 - 16:25	EURAMED Awards - Auditorium		
16:25 – 18:09	Session 11 - Auditorium		
18:09 – 18:30	Closing remarks - Auditorium		

Main Conference Programme

TUESDAY - November 12, 2024

- 08:30 **Registration**
- 09:30 **Opening session**
- 10:00 **Facing the Challenges of NORM: Strategies for Radiological Protection**
Plenary Lecture *Cristina Nuccetelli*

10:30 - 12:56

SESSION 1: CURRENT SCIENTIFIC DEVELOPMENTS AND CHALLENGES FOR THE APPLICATION OF ENVIRONMENTAL RADIOLOGICAL PROTECTION

Room: Auditorium

-
- 10:30 **Science-based evolution of the ICRP reference animals and plants approach**
ID 72
Garnier-Laplace Jacqueline - Invited speaker
- 10:50 **Current status of ICRP Task Group review of the potential role of ecosystem services in environmental radiological protection**
ID 85
Martinez Nicole - Invited speaker

11:10 – 11:40

Coffee break

- 11:40 **Considering the environment when applying the system of radiological protection**
ID 185
Christelle Adam-Guillermin - Invited speaker

- 12:00 **Addressing environmental radiological protection in the framework of reasonableness and tolerability**
ID 39
Schneider Thierry - Invited speaker
- 12:20 **Atmospheric Be-7: its importance in radioprotection, environmental physics, and space weather. Data collected and preliminary analysis**
ID 104
Rizzo Alessandro - Oral
- 12:32 **Analysis and prediction of radionuclides effects in ecosystems at multiple scales**
ID 144
Alonzo Frédéric - Oral
- 12:44 **AOP in the context of radioecology: challenges and insights**
ID 183
Frelon Sandrine - Oral

13:00 -14:00

Lunch

14:00 – 15:20

SESSION 2A: RADIATION PROTECTION IN MEDICAL APPLICATIONS (I)

Room: Auditorium

-
- 14:12 **Streamlining the determination of Diagnostic Reference Levels per clinical indication (DRLsci) for computed tomography at hospital CUF Santarém, Portugal**
ID150
Madaleno Diogo - Oral
- 14:24 **Inter-comparison exercise within the NATO Project BIOPHYMETRE**
ID 202
Testa Antonella - Oral
- 14:36 **A validated, vendor-independent, automatic tool for patient size-specific-dose-estimate calculation in adult abdomino-pelvic CT**
ID 50
Pace Eric - Oral
- 14:48 **Automatic reconstruction of patient-specific whole-body CT**
ID 79

Muñoz Hernández Isidora Sofía - Oral

- 15:00 **A national pilot project for the implementation of clinical audit indicators in interventional radiology**
ID 127
Serra Giacomo - Oral
- 15:12 **Occupational radiation received by orthopaedic surgeons and risk to workers**
ID 34
Barnard Stephen - Flash
- 15:16 **A dosimetric evaluation of gynaecological cancer patients undergoing HDR brachytherapy using a Cobalt-60 source**
ID 82
Doudoo Chris - Flash

14:00 – 15:20

SESSION 2B: PLANNED AND EXISTING EXPOSURE OF WORKERS DUE TO ARTIFICIAL RADIATION IN NORMAL OPERATIONAL CONDITIONS

Room: Sirio

- 14:00 **What do we need to use the full range of ICRU Report 95?**
ID 102
Tanner Rick - Invited speaker
- 14:20 **An artificially intelligent system for defect detection in leaded personal protective equipment**
ID 177
Belton Niamh - Oral
- 14:32 **Fitness-to-work and occupational exposure to ionizing radiation: criteria for the evaluation in workers with neoplastic diseases**
ID 26
Castellani Giulia - Oral
- 14:44 **Design of environments dedicated to the handling of unsealed sources and the production of radiopharmaceuticals**
ID 139
Contessa Gian Marco - Oral
- 14:56 **Actinium-225 as an example for monitoring of internal exposure of occupational intakes in face of new nuclear-medical applications for short-lived alpha-emitting radionuclides**

- ID 23
Hartmann Sven - Oral
- 15:08 **A different method for assessing electric field exposure in hospital environments**
ID 105
Di Liberto Riccardo - Flash
- 15:12 **An estimation of the value of a man Sievert**
ID 19
Engström Andreas - Flash
- 15:16 **Multifunction air-radiation monitoring system suited for early warning as well for environmental surveillance**
ID 2
Salmi Maurizio - Flash
-

14:00 – 15:40

SESSION 2C: ADVANCES IN PREVENTING AND MANAGING EXPOSURE TO RADON AND NORM

Room: Vega

- 14:00 **Radon risk communication: lessons for radiation protection**
ID 137
Perko Tanja – Invited speaker
- 14:20 **Comparative analysis of end-users' perceptions of the reuse of NORM-contained by-products in building materials**
ID 60
Love Nazanin - Oral
- 14:32 **NORM database in the Regulatory Italian framework**
ID 121
Fontani Sonia - Oral
- 14:44 **Considerations of necessary modification of existing waste disposal and recovery options when applied towards NORM**
ID 135
Makula Hubert - Oral
- 14:56 **Characterization of the FYCDY-P30 electrostatic collection chamber for measurements of RN-220 and RN-222 at ENEA INMRI laboratories**
ID 57
De Donato Antonio - Oral
- 15:08 **Risk assessment and correlation study of Radon in water and primordial radionuclide present in the soil samples of Himalayan region, India**
ID 66

Ahamad Taufiq - Oral

15:20 **Radon exhalation campaign to estimate greenhouse gas emissions using the 'Radon Tracer Method' – JRC-Ispra**

ID 36

Mancini Serena - Oral

15:32 **Radiation doses received by the Irish population 2024**

ID 93

Smith Kilian - Flash

15:36 **A comprehensive study of NORM in the vicinity of the MCT line in the higher Himalayas, India**

ID 65

Sajwan Rohit Singh - Flash

15:20 – 15:40

Poster session P1

15:40 – 16:10

Coffee break

16:10 – 18:10

SESSION 3A: RADIATION PROTECTION IN MEDICAL APPLICATIONS (II)

Room: Auditorium

16:10

The IRIDE project for personalized retinoblastoma treatment with brachytherapy

ID 170

De Simoni Micol - Oral

16:22

Foetal dose estimation in pregnant patients undergoing CT examinations using different dose calculators

ID 179

Kolozsi Eszter - Oral

16:34

Therapeutic ¹³¹I dose for hyperthyroidism treatment of unifocal autonomy in compliance with Council Directive 2013/59/Euratom optimization principle

ID 190

Canzi Cristina - Oral

16:46 **Attracting the future radiation protection researchers: outreach activities of the SCK CEN Academy**

ID 186

Clarijs Tom - Oral

16:58 **Thyroid cancer incidence risk in the residents around the Semipalatinsk nuclear test site, Kazakhstan**

ID 114

Ostroumova Evgenia - Oral

17:10 **Development of an AI-powered virtual assistant for radiation dose management in pregnant patients undergoing CT and X-ray guided interventional procedures**

ID 12

Damilakis John - Oral

17:22 **Main achievements of the HARMONIC Project - Health effects of cardiac fluoRoscopy and MOderN radiotherapy in paediatricCs**

ID 41

Thierry-Chef Isabelle - Oral

17:34 **Comparative analysis of effective doses for children undergoing chest CT examinations: photon-counting vs energy integrating detector CT**

ID 40

Kunert Patrizia - Oral

17:46 **New developments and AI applications of Radiation Biology Ontology (RBO)**

ID 44

Schofield Paul - Oral

17:58 **Radiobiological kidney protection: assessing the effect of different coadministration schedules with human recombinant antioxidant rA1M and ¹⁷⁷Lu-octreotide**

ID 164

Rassol Nishte - Flash

18:02 **Proposal of a new approach for molecular radiotherapy dosimetry**

ID 199

Solfaroli Camillocci Elena - Flash

18:06 **Assessment of the current CT protocols in use for oncological imaging in Slovenian hospitals: iViolin project**

ID 92

Abualroos Nadin - Flash

16:10 – 17:38

SESSION 3B: DOSIMETRY IN EXTREME SITUATIONS: HIGH DOSE RATES, MIXED FIELD, LOW DOSE RATES, UNKNOWN RADIATION FIELDS

Room: Sirio

- 16:10 **Dosimetry in extreme situations**
Woda Clemens – Invited speaker
- 16:30 **Radiation protection in the experimental hall of the Elettra storage ring**
ID 130
D'Angelo Arianna - Oral
- 16:42 **RENEB Interlaboratory comparison – biological dosimetry for doses higher than 2.5 Gy**
ID 24
Bucher Martin – Oral
- 16:54 **Radiation protection and safety for the EuPraxia@SPARC_LAB project**
ID 21
Donghia Raffaella - Oral
- 17:06 **Calibration of dosimetric instruments in Poland**
ID 149
Jakubowska Alicja - Oral
- 17:18 **Preliminary beam dump design related to the Frascati Laser for Acceleration and Multidisciplinary Experiments (FLAME) installation upgrade**
ID 158
Chiarelli Federico - Oral
- 17:30 **Testing different luminescence measurement protocols for display glass as an accident dosimeter**
ID 81
Discher Michael - Flash
- 17:34 **An interlaboratory comparison on EPR on tooth enamel within the EURADOS WG10**
ID 184
Della Monaca Sara - Flash

17:40 – 18:10

Tech Sharing Corner

17:40– 18:10
Poster session P2

16:10 –17:46

SESSION 3C: DOSIMETRY OF MEDICAL OPERATORS

Room: Vega

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- | | |
|-------|---|
| 16:10 | Proton Therapy – Specific radiation protection issues
ID 3
<i>Szumaska Agnieszka - Oral</i> |
| 16:22 | Assessment of uncertainties and errors in post-Chernobyl dosimetry
ID 204
<i>Drozdovitch Vladimir - Oral</i> |
| 16:34 | Risk of haematological malignancies in Gomel and Mogilev regions of Belarus after Chernobyl fallout
ID 11
<i>Zupunski Ljubica - Oral</i> |
| 16:46 | Impact of clinical workloads on shielding evaluation in interventional radiology
ID 125
<i>Biondi Michelangelo - Oral</i> |
| 16:58 | Development of a spreadsheet for calculating barrier thickness for radiotherapy bunker
ID 128
<i>Guasti Andrea - Oral</i> |
| 17:10 | Radiation dose monitoring data analysis to estimate radiological risk allowance for interventional radiology staff
ID 124
<i>Bortoli Eleonora - Oral</i> |
| 17:22 | Exposure to activated air and walls of clinical staff in proton therapy centers
ID 181
<i>García-Fernández Gonzalo – Oral</i> |



17:34

Occupational Radiation Exposure of medical staff involved in ERCP

ID 49

Matsuzaki Satoru – Oral

18:10 –18:30

Room: Auditorium

18:10

MELODI Awards

WEDNESDAY - November 13, 2024

09:00 **New insights in leukaemogenesis**
ID 101
Plenary Lecture *Christophe Badie*

9:30 – 11:00

SESSION 4: FUTURE APPROACHES FOR LOW DOSE RESEARCH

Room: Auditorium

09:30 **Low Dose Research; the challenges and how to progress**
ID 221
Ohtsura Niwa - Invited speaker

09:40 **Exploiting sequencing technology for low dose research**
ID 213
Arikuni Uchimura - Invited speaker

10:00 **Exploiting tissue stem cell technology for low dose research**
ID 212
Kensuke Otsuka - Invited speaker

10:20 **Round table and open discussion**

11:00 - 11:30

Coffee break

11:30 – 12:26

SESSION 5A: RADIATION PROTECTION IN MEDICAL APPLICATIONS III

Room: Auditorium

11:30 **Assessment of patient's awareness and knowledge of radiation dose and risks associated with dental radiography and computed tomography: a questionnaire based study**

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- ID 69
Kiparoidze Salome - Oral
- 11:42 **AUDITORY EVENT-Related potentials P300 in the elderly Chernobyl clean-up workers**
ID 8
Kuts Kostiantyn - Oral
- 11:54 **Context-aware software for education and training**
ID 168
Mazloumi Mahta - Oral
- 12:06 **Virtual training helps radiation protection: a free tool for interventional staff**
ID 13
de las Heras Gala Hugo - Flash
- 12:10 **Investigation and feasibility study of a new compact X-ray dark-field imaging setup and corresponding image analysis and optimization**
ID 196
Yan Xiaolei - Flash
- 12:14 **A Monte Carlo calculation of cumulative radiation dose from multiple imaging modalities in paediatric interventional cardiology**
ID 54
Giannone Angelo - Flash
- 12:18 **Assessment of dental radiography quality assurance practices among dental offices equipped with intraoral X-ray devices in Georgia**
ID 131
Nadareishvili Davit - Flash
- 12:22 **A free and open-source semi-automated quality control workflow for planar X-ray images designed for integration into QATRACK+**
ID 5
Attard Clarissa - Flash

11:30 – 12:22

SESSION 5B: EXPOSURE OF MEMBERS OF THE PUBLIC AND ENVIRONMENT WITH REGARDS TO LEGACY, WASTE MANAGEMENT AND DECOMMISSIONING ISSUES

Room: Sirio

-
- 11:30 **Estimation of nearfield inhalation doses from decommissioning of contaminated buildings**
ID 43

Lal Sreeyuth - Oral

- 11:42 **Clearance levels bureaucracy and radiation protection**
ID 47
Esposito Alfonso Maria - Oral
- 11:54 **Drone-gamma: unmanned airborne vehicle for remote detection of gamma-emitting radionuclides**
ID 17
Guillén Javier - Oral
- 12:06 **Evidence of contamination of the Urdzhar district of Abai, Kazakhstan, from the Chinese nuclear weapons testing program at Lop Nor**
ID 110
Harbron Richard - Oral
- 12:18 **Statistical analysis of the sampling grid for the radiological characterization of a site**
ID 166
Petraglia Antonio - Flash

12:25 – 13:00
Poster session P3

13:00– 14:00
Lunch

14:00 – 15:40

SESSION 6A: BIOLOGICAL AND HEALTH EFFECTS OF LOW DOSE EXPOSURE (I)

Room: Auditorium

- 14:00 **Investigating persistence of radiation damage in haematopoietic stem cell subpopulations induced by direct irradiation or by bystander signals**
ID 154
Lumniczky Katalin - Oral
- 14:12 **Sex driven effects of osteoimmunogenic cells after low-dose irradiation**
ID 67

Winterling Lena - Oral

- 14:24 **Biologically-based assessment of minimum latency time between radiation exposure and cancer**
ID 32
Eidemüller Markus - Oral
- 14:36 **Effects of low-dose radiation on senescence in the context of aging and associated risks disease**
ID 61
Klokov Dmitry - Oral
- 14:48 **PLEASE MIND THE GAPS! How AOP approach for radiation-induced CVD strengthen the role of biology in radiation protection?**
ID 73
Azimazdeh Omid - Oral
- 15:00 **Exploring the systemic impact of ionizing radiation: miRNA changes in blood-derived extracellular vesicles and their cell-specific effects**
ID 87
Moertl Simone - Oral
- 15:12 **Effects of acute and chronic irradiation on the hippocampus in apolipoprotein e deficient mice**
ID 112
Antonelli Francesca - Oral
- 15:24 **Evaluation of DNA damage and genetic instability in interventional radiologists**
ID 162
Kochanová Dominika - Flash
- 15:28 **Cytogenetic analysis in peripheral blood lymphocytes of patients exposed to low dose ionizing radiation in fluoroscopically guided interventional procedures**
ID 152
Georgieva Dimka - Flash
- 15:32 **Radiation signature in plasma metabolome of total-body Irradiated nonhuman primates and clinical patients**
ID 115
Tichy Ales - Flash
- 15:36 **Dose-effect relationships of dicentric formation determined by fully- & semi-automated dicentric evaluation using different DCSScore classifiers after 3 h or 24 h colcemid treatment**
ID 22
Beinke Christina - Flash

14:00 – 15:24

SESSION 6B: PATIENT MEDICAL DOSIMETRY

Room: Sirio

- 14:00 **Improving Out-of-Field Dosimetry in Modern Radiotherapy: Insights from EURADOS WG9**
ID 220
Liliana Stolarczyk - Invited speaker
- 14:20 **Feasibility of a novel video frame interpolation algorithm for radiation dose reduction in the catheterisation laboratory using AI-generated synthetic angiographic images**
ID 157
Gilligan Paddy - Oral
- 14:32 **EURADOS roadmap for internal dosimetry in radiopharmaceutical therapy: vision towards dosimetry-based prescription**
ID 27
Bouwman Ramona - Oral
- 14:44 **Assessment of radiation dose to newborns in neonatal intensive care units**
ID 76
Alomairy Nada - Oral
- 14:56 **Assessment of effective dose conversion coefficients for categories of radiological and nuclear medicine examinations: an italian MoH-ISS project**
ID 134
Rampado Osvaldo - Oral
- 15:08 **Age and biological sex influences the biodistribution and dosimetry of ¹³¹I in Sprague Dawley rats**
ID 165
Schroff Anja - Oral
- 15:20 **Tissue reactions follow up in patients significantly exposed to ionizing radiation after fluoroscopy guided interventional procedures**
ID 133
Pimenta Andrea - Flash

Tech Sharing Corner

15:40 – 16:10

Coffee break

16:10 – 16:46

SESSION 7A: BIOLOGICAL AND HEALTH EFFECTS OF LOW DOSE EXPOSURE (II)

Room: Auditorium

- 16:10 **Neutron biological effectiveness: tackling variations as a function of incident energy and depth in a human-sized phantom**
ID 172
Baiocco Giorgio - Oral
- 16:22 **Transcriptional radiation reponse signature of human skin**
ID 55
Cruz-Garcia Lourdes - Oral
- 16:34 **Implementation of the cytokinesis block micronucleus assay for biodosimetry purposes at NRPI**
ID 156
Vavra Jakub - Flash
- 16:38 **Low dose radiation bystander effects through IGFBP5, a component of the senescent cell secretome**
ID 126
Aprile Domenico - Flash
- 16:42 **Tritiated micro-particles: computational dosimetry and analysis of radiobiological in-vitro data**
ID 176
Mentana Alice - Flash

16:50– 18:30

SESSION 7B: PIANOFORTE - BUILDING A COLLABORATIVE FUTURE FOR RP: INTEGRATING COMMUNITY EFFORTS AND OPEN CALL SUCCESSES

Room: Auditorium

- 16:50 **PIANOFORTE - Building a collaborative future for radiation Protection
Integrating community efforts and open call successes**
ID 209
Jean-Christoph Gariel – Invited speaker
- 17:10 **How the processes of prioritisation, selection of call topics and review of
proposals are developing and evolving**
Filip Vanhavere - Invited speaker
- 17:30 **The SONORA Project: toward safe optimized and personalized radiology and
radiotherapy procedures for pregnant patients (PIANOFORTE 2013-15)**
ID 195
De Monte Francesca - Oral
- 17:38 **DISCOVER: Dissecting radlation effectS into the Cerebellum
micrOenVironmEnt driving tumour pRomotion**
ID 206
Pazzaglia Simonetta - Oral
- 17:46 **Synergy between IMMPRINT and IMAGEOMICS projects to improve breast
cancer patient health and safety**
ID 205
Sáfrány Géza - Oral
- 17:54 **ImPRovements in atmospheric dispErSION moDelling and proteCTive action
strategies in case of nuclear detonations – The PREDICT Project**
ID 48
Woda Clemens - Oral
- 18:02 **LuTADose: Personalized dosimetry to improve the clinical outcome of
prostate cancer patients treated with 177Lu/225Ac-PSMA targeted
therapies**
ID 216
Koole Michel - Oral
- 18:10 **Preliminary results from the first year of the research project PIANOFORTE:
CITISTRA**
ID 99
Helebrant Jan - Oral
- 18:18 **A vision for “FAIR” data and infrastructures in radiation protection**
ID 108
Ainsbury Liz - Oral

SESSION 7C: REDUCING SCIENTIFIC AND SOCIETAL UNCERTAINTIES RELATED TO RADON AND NORM

Room: Sirio

- 16:10 **Advances in risk management of Radon & NORM through the RADONORM project**
ID 15
John Warren -Invited speaker
- 16:30 **Radon Biology – past, present and future**
ID 208
Gomolka Maria -Invited speaker
- 16:50 **Lung cancer mortality attributable to residential radon in Germany**
ID 14
Heinzl Felix - Oral
- 17:02 **Pathogenic timeline and radiation risk in radon-exposed rats for lung cancer and its histological types from multi-stage clonal expansion models**
ID 25
Trentin Stefania - Oral
- 17:14 **The effect of asthma and COPD on the radiation burden of the bronchial airways**
ID 53
Füri Peter - Oral
- 17:26 **Parameter uncertainty analysis of the effective dose for intake of Radon progeny in underground mines using intdoskit tool**
ID 56
Makumbi Thomas - Oral
- 17:38 **Atmospheric transport and deposition of Radon-222 and its progeny using flexpart**
ID 38
Frankemölle Jens Peter - Oral
- 17:50 **Perceptions, performances and presentations of Radon in health spas**
ID 122
Geysmans Robbe - Oral
- 18:02 **Evaluating the impact of citizen science projects in the field of radiation protection: the Radon case**
ID 78
Hoedoafia Mabel Akosua - Oral

16:10 – 18:22

**SESSION 7D: EXPOSURE OF MEMBERS OF THE PUBLIC, WORKERS AND ENVIRONMENT
FOLLOWING A MAJOR NUCLEAR OR RADIOLOGICAL ACCIDENT OR INCIDENT OR MALEVOLENT
NUCLEAR OR RADIOLOGICAL ACT**

Room: Vega

- 16:10 **Evaluate the radiological dispersion devices consequences through numerical simulations**
ID 96
Malizia Andrea - Oral
- 16:22 **Modelling the effect of counter-measures on radiological assessment**
ID 29
Gaspar Quarenta Mario - Oral
- 16:34 **Framework for localization of atmospheric contamination source with neural networks**
ID 148
Wawrzyńczak-Szaban Anna - Oral
- 16:46 **Characterization of using a portable OSL/IRSL reader for in situ dose assessments of NaCl pellets**
ID 4
Karampereri Maria - Oral
- 16:58 **Balancing small modular reactor emergency preparedness with the importance of traditional food consumption in the Canadian north**
ID 86
Kocemba Marta - Oral
- 17:10 **Enhancing epr through comprehensive theoretical and practical training programs**
ID 109
Zorko Benjamin – Oral
- 17:22 **The hazard assessment for the italian national plan for the management of nuclear and radiological emergencies**
ID 140
Scarpato Silvia - Oral
- 17:34 **Resceu CBRN strategic reserve in Finland**
ID 11
Muikku Maarit - Oral



- 17:-46 **Methodology for evaluating radiological consequences from attacks on spent fuel dry casks**
ID 42
Lebel Luke - Oral
- 17:58 **Theoretical study on physiochemical properties and dispersion of radioactive particles/aerosols and their effect on minimum detectable dose in exposed humans for European spallation source releases**
ID 107
Ramljak Belikse - Flash
- 18:02 **Mapping radiation in Italy – An innovative model for monitoring and alarm**
ID 123
Quaranta Riccardo - Flash
- 18:06 **Efficiency analysis and detection limits of HPGe detectors in drinking water monitoring**
ID 161
Sundström Jonathan - Flash
- 18:10 **OpenRadiation: a collaborative project for radioactivity measurements in the environment by the public**
ID 64
Bertho Jean-Marc – Flash
- 18:14 **Strengthening the EU capability in CBRN protection with the design of novel laboratories for RN identification.**
ID 97
Cherubini Nadia - Flash
- 18:18 **Novel approach to mitigate the scanning orientation effects in radiochromic film dosimetry**
ID 117
Bantan Hassna - Flash

THURSDAY - November 14, 2024

09:00

Plenary Lecture – From Protection to Participation: The Role of ART in Radioprotection and Oncology

ID 218

Vincenzo Valentini

9:30 – 11:00

SESSION 8: ROUND TABLE: SITUATION IN UKRAINE

Room: Auditorium

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- | | |
|-------|---|
| 09:30 | Disinformation as the major threat in nuclear and radiation research: Ukrainian experience during the full-scale invasion of Russia
ID 215
<i>Pareniuk Olena</i> – Invited speaker |
| 09:50 | To be defined
<i>Kenbayeva Zhanat</i> - Invited speaker |
| 10:10 | How the war in Ukraine has affected the ALLIANCE Platform field of research
<i>ALLIANCE</i> |
| 10:15 | How the war in Ukraine has affected the EURADOS Platform field of research
<i>EURADOS</i> |
| 10:20 | How the war in Ukraine has affected the EURAMED Platform field of research
<i>EURAMRD</i> |
| 10:25 | How the war in Ukraine has affected the MELODI Platform field of research
<i>MELODI</i> |
| 10:30 | How the war in Ukraine has affected the NERIS Platform field of research
<i>NERIS</i> |
| 10:35 | How the war in Ukraine has affected the SHARE Platform field of research
<i>SHARE</i> |
| 10:40 | Discussion |

11:00 - 11:30

Coffee break

11:30 – 13:00

SESSION 9: BEYOND THE SILO: UNION PROGRAMMES AND PRIORITIES THAT INTERSECT WITH RADIATION PROTECTION RESEARCH AND HOW TO PUT SYNERGIES INTO PRACTICE

Room: Auditorium

11:30

Introduction

Florian Rauser

Domenico Rossetti di Valdalbero

(DG Research and Innovation, EURATOM Research)

Input from *Stefan Mundigl*

(DG Energy, Radiation Protection and Nuclear Safety), presentation given on-site by Florian Rauser

Ida Cosentino

(DG European Civil Protection and Humanitarian Aid Operations, rescEU CBRN and medical capabilities)

Daria Julkowska

(EJP Rare Diseases, INSERM) – remote talk

João H. Garcia Alves

(European Metrology Network Radiation Protection, Instituto Superior Técnico)

Gianni D'Errico

(European Partnership on Personalised Medicine, Fondazione Toscana Life Sciences)

12:15

Panel discussion with speakers and questions from the session

13:00 – 14:00

Lunch

14:00 – 15:00

SESSION 10A: DEBATE ON SKIN DOSIMETRY

Room: Auditorium

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- | | |
|-------|--|
| 14:00 | Do we need an accurate skin model to better understand skin dosimetry
ID 207
<i>Eakins Jonathan</i> – Invited speaker |
| 14:25 | Panel of discussion
<i>Olivera Ciraj Bjelac, Jérémie Dabin</i> |
| 14:35 | Q&A session |

14:00 – 15:08

SESSION 10B: BIOLOGICAL EFFECTS OF LOW DOSE EXPOSURE DURING MEDICAL APPLICATIONS

Room: Sirio

-
- | | |
|-------|---|
| 14:00 | Molecular markers for biological dosimetry in radiation protection, cancer risk assessment and optimization radiotherapy
ID 155
<i>Pavol Kosik</i> – Oral |
| 14:12 | Biological effects of radiation exposure in patients treated with X-ray-guided endovascular aortic repair
ID 119
<i>Yeong Tian</i> - Oral |
| 14:24 | Evaluation of oncogenic risk and cumulative dose from radiological investigations in intensive care unit patients: variability between BEIR VII vs RADRAT vs ICRP 103 vs US EPA model risks
ID 51
<i>Zanon Chiara</i> - Oral |
| 14:36 | Epigenetic effects of exposure to ¹³¹I in mouse thyroid tissue
ID 20
<i>Insulander Björk Klara</i> - Oral |
| 14:48 | Development of novel piperazine derivatives as enhanced radioprotective agents
ID 90
<i>Chmil Vojtěch</i> – Flash |

- 14:52 **Individual radiosensitivity of breast cancer patients**
ID 163
Vigašová Katarína - Flash
- 14:56 **Radiobiological response of AR suppression in combination with radium-223**
ID 100
Alshehri Ali - Flash
- 15:00 **Implementation of theranostic system for nuclear medicine application: preliminary biological data**
ID 94
Binelli Ludovica – Flash
- 15:04 **In vitro study of radiosensitivity in colorectal cancer cell lines associated with Lynch syndrome**
ID 16
Moquet Jayne- Flash

14:00 – 14:56

SESSION 10C: COSMIC RADIATION

Room: Vega

- 14:00 **Long-term radiation signal persistence in urine and blood: a two-year analysis in non-human primates exposed to an acute 4 Gy total body gamma radiation dose**
ID 188
Laiakis Evagelia - Oral
- 14:12 **Biological effects of chronic low dose rate exposures of neutrons on plants**
ID 143
Sandri Carla - Oral
- 14:24 **Advancing space radiobiology and radio protection using AMS data: Insights from the AMS INRN Roma Sapienza Groups**
ID 189
Bartoloni Alessandro - Oral
- 14:36 **Space radiation dosimetry in aerospace**
ID 187
Baldyga Patrycja - Oral
- 14:48 **Radiobiological effects of protons or gamma rays and UVB radiation on human cells: implications for radiation protection**
ID 153

Gkikoudi Angeliki - Flash

14:52

Why humans can handle high levels of terrestrial natural radiation better than space radiation: insights from evolution

ID 171

Mortazavi Alireza – Flash

15:00 15:30

Tech Sharing Corner

15:00 15:30

Poster session P4

15:30 – 16:00

Coffee break

16:00 –16.25

Room: Auditorium

16:00

EURAMED Awards

16:25 – 18:09

SESSION 11: REVOLUTIONIZING RADIATION PROTECTION WITH AI

Room: Auditorium

16:25

AI in dosimetry

TBS

Vanhavere Filip – Invited speaker

16:45

AI-driven dosimetry: personalizing patient radiation safety-

ID 214



Damiliakis John - Invited speaker

17:05 **AI-enhanced image reconstruction and image quality in medical imaging**

ID 219

Hoeschen Christoph - Invited speaker

17:25 **Ethical and regulatory considerations for AI in medical applications**

ID 211

de las Heras Gala Hugo - Invited speaker

17:45 **AI-driven framework for Internal dose assessment in radiological emergencies: integration of multiphysics, biokinetics, dose reconstruction, and in-vivo analysis**

ID 182

Dewji Shaheen - Oral

17:57 **Evaluating the robustness of ai-based models for patient dose optimization in medical imaging**

ID 194

Stendardo Giorgia - Oral

18:09-18:30

CLOSING REMARKS

Room: Auditorium
