1-4
OCTOBER
2025

2025

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ASST Grande Ospedale
Metropolitano Niguarda

CHINA-ITALY
INNOVATION
IN NUCLEAR MEDICINE

Scientific Rationale for the Sino-Italian meeting in Milan

SCIENTIFIC COMMITTEE:

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Selene Capitanio
Silvia Morbelli
Stefano Fanti
Wei Mu
Xiaoli Lan
Xiaohua Zhu

Nuclear medicine is at the forefront of modern diagnostic and therapeutic innovation, offering transformative solutions for a wide range of diseases. Italy and China have significantly advanced the science and clinical practice of nuclear medicine. This congress seeks to unite nuclear medicine physicians from both countries to foster knowledge exchange, collaboration, and the development of joint strategies. Key themes include radiopharmaceutical developments, dosimetry, new PET scanners, and artificial intelligence in nuclear medicine.

Radiopharmaceutical Developments

Radiopharmaceuticals underpin the success of nuclear medicine by enabling precise diagnosis and targeted therapies. China is at the forefront of developing novel radiotracers and Italy is advanced in expanding their clinical applications. This congress will highlight cutting-edge research in radiochemistry, preclinical evaluations, and first-in-human studies of new radiopharmaceuticals. Emphasis will be placed on the development of theranostic agents, which combine diagnostic imaging and targeted therapy, and the optimization of production methods to address global demand. Discussions will also explore strategies to overcome regulatory and logistical challenges to ensure equitable access to these innovations.

Dosimetry

Accurate dosimetry is critical to maximizing the therapeutic efficacy of nuclear medicine while minimizing potential toxicities. Advances in personalized dosimetry have improved treatment planning for radiopharmaceutical therapies and contributed to better patient outcomes. This congress will highlight advances in dosimetry for therapeutic applications, focusing on precision medicine approaches and strategies for integrating these tools, including 3D imaging-based models and AI-enhanced predictions, into routine clinical practice.

New PET Scanner Technologies

The evolution of PET scanner technologies, including large field of view PET/CT and PET/MR, has significantly enhanced the sensitivity, resolution, and speed of imaging. These advancements have enabled earlier detection of diseases, improved quantification of biological processes, and reduced radiation exposure. Topics will include clinical implementation challenges, cost-effectiveness analyses, and the potential for widespread adoption of cutting-edge imaging technologies.

Artificial Intelligence in Nuclear Medicine

Artificial intelligence (AI) is transforming nuclear medicine by enhancing image analysis, streamlining workflows, and supporting clinical decision-making. Collaborative efforts in developing AI-driven tools for imaging and therapy optimization offer significant promise. This congress will explore AI applications in areas such as automated image reconstruction, disease detection, and dosimetry calculations. Ethical considerations, clinician training, and strategies to integrate AI into routine practice will also be key points of discussion.

Promoting International Collaboration

This congress represents a unique opportunity to strengthen ties between Italy and China, enabling participants to share knowledge, exchange ideas, and develop collaborative research initiatives.
By addressing common challenges and leveraging the strengths of both nations, this event will catalyze innovation and advance the field of nuclear medicine globally. The insights gained will ultimately translate into improved patient care and outcomes, setting a benchmark for international cooperation in healthcare and science.

We eagerly anticipate welcoming esteemed colleagues from Italy and China to this landmark event, where together we will shape the future of nuclear medicine.

Programme

OCTOBER **1**

Arrival in Milan, congress registration and welcome dinner

OCTOBER **2**

08.30 - 12.00 Round table: promoting intenational collaboration

12.00 - 13.00 Lunch

13.00 - 13.30 Welcome & opening speeches
Claudio Rossetti, Alberto Zoli, Mario Melazzini, Gang Huang, Jing Wang, Maria Luisa De Rimini, Paola Erba, Arturo Chiti

SESSION 1

SESSION 1
Chairs: ***Claudio Rossetti, Gang Huang***

13.30 - 13.55 Innovations of LAFOV PET in oncology
Hongcheng Shi

13.55 - 14.20 Clinical impact of LAFOV PET
Stefano Fanti

14.20 - 14.45 GPC3 PET: tracer development and clinical translation
Xiaoli Lan

14.45 - 15.00 Discussion

15.00 - 15.30 Tea and coffee break

SESSION 2

SESSION 2
Chairs: ***Martina Sollini, Hui Wang***

15.30 - 15.55 Non oncological applications of dynamic imaging LAFOV PET
Antonio Scarale, Selene Capitanio

15.55 - 16.20 Clinical impact of neuroimaging in dementia
Silvia Morbelli

16.20 - 16.30 Discussion

16.30 - 16.55 Proton therapy verification using total-body PET/CT imaging
Xiaohua Zhu

16.55 - 17.20 Development and clinical application of AI-based respiratory and head motion correction algorithms in PET imaging
Fei Kang

17.20 - 17.30 Discussion

18.30 - 22.00 Transfer to restaurant and social dinner

OCTOBER **3**

SESSION 3

SESSION 3
Chairs: ***Silvia Morbelli, Wei Mu***

8.30 - 8.55 AI in Nuclear Medicine
Biao Li

8.55 - 9.20 The european vision for AI
Margarita Kirienko

9.20 - 9.45 AI in dosimetry
Kuangyu Shi

9.45 - 10.00 Discussion

10.00 - 10.30 Tea and coffee break

SESSION 4

SESSION 4
Chairs: ***Arturo Chiti, Rui An***

10.30 - 10.55 Early phase clinical studies
Martina Sollini

10.55 - 11.20 Radiopharmaceutical development - an industry perspective
Matthew Miller

11.20 - 11.45 PSMA imaging in Europe: current status and future perspectives
Matteo Bauckneht

11.45 - 12.00 Discussion

12.00 - 12.30 Closing remarks: ***Arturo Chiti, Claudio Rossetti***

12.30 - 13.30 Lunch

13.30 - 17.00 Transfer and tour

18.30 - 22.00 Transfer to restaurant and dinner time

OCTOBER **4**

Departures

Conference Venue

ASST Grande Ospedale Metropolitano Niguarda
Piazza dell'Ospedale Maggiore, 3, 20162 Milano MI

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HOW TO REACH THE VENUE:

By public transportation
Bus:
• 41 – Stop: Niguarda Pronto Soccorso
• 42 – Stop: Niguarda Ospedale
• 51 – Stop: Niguarda Ospedale or Via Benefattori dell'Ospedale
• 83 – Stop: Ospedale Maggiore (Via Ausonio Zubiani) or Via Benefattori dell'Ospedale
Tram:
• 4 – Stop: Niguarda Ospedale
• 5 – Stop: Niguarda Ospedale
Subway:
• Line M5 (purple) – Stop: Ca' Granda

By train
From Milano Centrale Railway Station:
• Line M3 (yellow) to Maciachini + Tram 4 to Niguarda Ospedale
or
• Tram 5 to Niguarda Ospedale
From Milano Garibaldi Railway Station:
• Line M5 (purple) to Ca' Granda + Tram 5 to Niguarda Ospedale

By car
From the A4 Torino-Trieste motorway, take the Cormano exit and follow directions to City Center – Niguarda.

Parking
Visitors can enter the hospital by car by collecting a ticket at the entrance on Via Zubiani (access from 5:30 AM to 10:30 PM).
Direct access to the Emergency Room is via Via Ettore Majorana.
South Parking Lot with over 750 spaces at discounted rates:
• Up to 4 hours: €3.20
• From 4 to 24 hours: €4.00

Patronage

AIMN
Associazione Italiana di Medicina Nucleare
Imaging Molecolare e Terapia

2025

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