San Luigi Gonzaga Hospital, *Orbassano, Turin, Italy*

Candiolo Cancer Institute - IRCCS, *Candiolo, Turin, Italy*

Department of Oncology - University of Turin, *Orbassano, Turin, Italy*

Chairmen of the Meeting:
Francesco Porpiglia - *Department of Urology, San Luigi Gonzaga Hospital, School of Medicine University of Turin, Orbassano, Italy*

12th INTERNATIONAL TECHNO-UROLOGY MEETING (TUM)

IV GENERATION OF 3D VIRTUAL MODELS: TOWARDS BIOLOGICAL DIGITAL TWINS AND THE SURGICAL PLANNING INTO THE URO-VERSE

29th February - 1st March 2024

Aula Convegni S. Luigi Gonzaga Hospital
Orbassano, Turin, Italy



Requested patronage of:

INTRODUCTION

Dear Friends,

We are delighted to announce the 12th edition of TUM, scheduled for February 29th and March 1st 2024.

Over the past years, we have been diligently working on enhancing and refining technologies for laparoscopic and robotic urologic surgery.

Our journey has taken us from 3D-guided surgeries to the adoption of 4K vision and the implementation of highly advanced broadcasting systems, all designed to offer participants the most immersive experience possible. From the very first editions of our meeting, our goal has been to provide an enriched surgical environment.

Our exploration continued as we delved into the study of organ-specific 3D virtual models derived from standard imaging. This led us into the realms of augmented reality and mixed reality surgery, with the primary objective of improving surgical planning and intraoperative guidance. We aimed to maximize surgeon awareness during procedures, taking advantage of the information provided by virtual models of real anatomy.

Our initial forays into the augmented reality surgery were semi-automatic, but we soon transitioned to augmented reality platforms powered by artificial intelligence, with subsequent automatic overlapping of the 3D augmented reality images.

Taking our commitment further, last year we created an immersive platform for a virtual reality experience, in the Metaverse.

The surgeons had the possibility to navigate the 3D virtual models of the patients in a virtual environment, sharing the surgical planning with the moderators and the delegates even if located in different sites.

In this TUM24 edition, we will bring the delegates, moderators and surgeons into the Uro-Verse, that it is more than only a virtual platform. Uro-Verse is a testament to the dynamic synergy between technology and surgery, and it is set to redefine the landscape of urology for years to come. In Uro-Verse, the boundaries of physical geography dissolve, and this virtual realm facilitates collaborative learning, discussions, and surgical innovations.

Another novelty will be represented by the presentation of our fourth generation of the 3D virtual models.

3D BioDigital Virtual Models of the patients' anatomy will be a Digital Twin of the organs, and will be showed into the Uro-Verse environment, with an unprecedent level of precision and customization that has the potential to further improve the realism and the accuracy of immersive surgical planning.

I am confident that this special edition of TUM will be a resounding success, with a multitude of innovative surgical technologies to be presented, and a distinguished faculty of surgeons joining us from all corners of the world.

We hope that our ambitious program will be enjoyed by all attendees, and we warmly welcome you to Turin for this 12th edition of TUM!

Kind regards.



Francesco Porpiglia



DIVISION OF UROLOGY - DEPARTMENT OF ONCOLOGY UNIVERSITY OF TURIN

The Department of Oncology at University of Turin, is composed by professionals, from preclinical to translational research and clinic assistance for oncological diseases. It is sited in San Luigi Hospital and IRCC Candiolo Institute.

The Urology team, that takes part into the Department of Oncology, manages all uro-oncological and all others genito-urinary diseases. The most recent and modern technologies are available for diagnosis and treatment of such of them.

Robotic and laparoscopic surgery have been developed in the last years, being San Luigi Hospital's Urology Division a pioneer Centre for many techniques, especially in the setting of translational surgery.

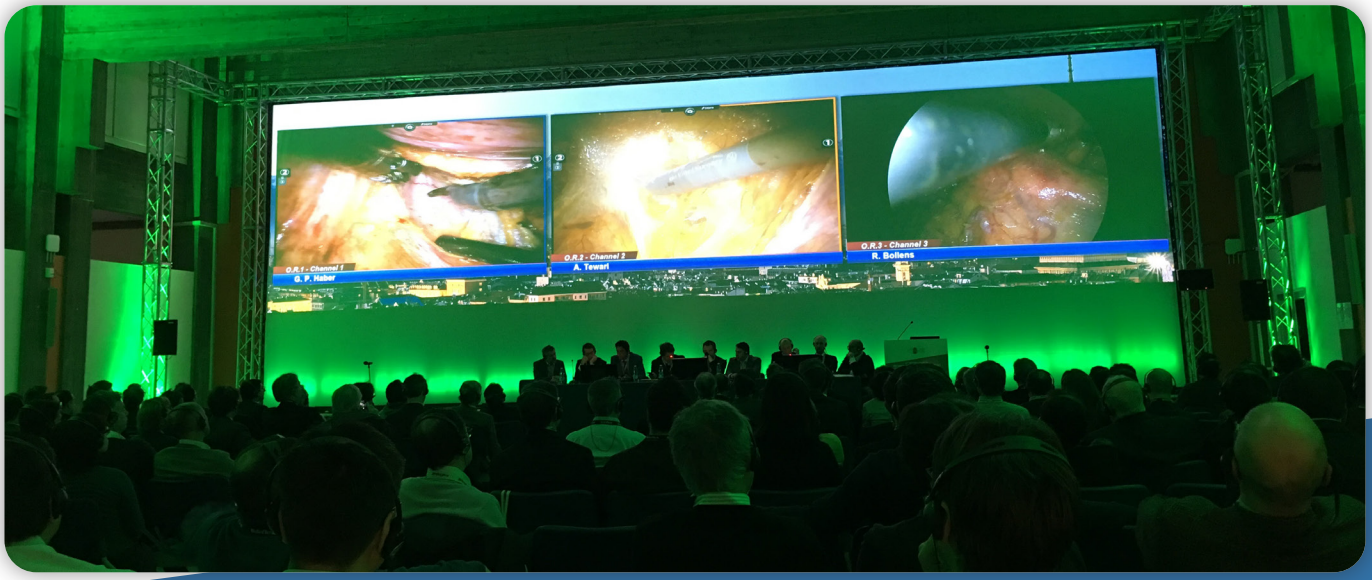
Together with the clinical activity, also the teaching activity has a primary role, being our Department the Center for the Urology Residency Program.

Our Staff is continuously involved and invited to attend the most prestigious International and National Meetings.

Our intensive scientific and research activity is widely recognized as demonstrated by the publications in the most famous international peer-reviewed journals.



CONGRESS VENUE
Aula Convegni S. Luigi Gonzaga Hospital



HONORARY CONGRESS PRESIDENT



Dario Fontana
Professor of Urology
Turin, Italy



Roberto Mario Scarpa
Professor of Urology
Campus Biomedico University Hospital
Rome, Italy

INVITED SURGEONS



Ronney Abaza
Central Ohio Urology Group LLC, USA



Ravi Barod
Consultant Urological Surgeon and Clinical Lead at The Specialist Centre for Kidney Cancer at The Royal Free Hospital



Alessandro Antonelli
Chairman, Urology Department, Azienda Ospedaliera Universitaria Integrata, University of Verona, Verona, Italy"



Alberto Breda
Chief of the Uro-Oncology Division and Director of the Kidney Transplant Unit Fundació Puigvert
Barcelona, Spain



Riccardo Autorino
Professor of Urology
Director of Surgical Innovation
Rush University Medical Center
Chicago, IL, USA



Simone Crivellaro
Assistant Professor in Minimally Invasive Urology, Director of Urology Robotic Training, University of Illinois,
Chicago, USA

INVITED SURGEONS



Ruben De Groote
Assistant professor of Urology at KU Leuven, Belgium



Riccardo Schiavina
Department of Urology at Sant'Orsola Malpighi Hospital University of Bologna, Italy



Antonio Galfano
Department of Urology Niguarda Hospital Milan, Italy



Carlo Terrone
Chief Department of Urology San Martino Hospital Genova, Italy



Ahmed Ghazi
Brady Urological Institute Johns Hopkins University Baltimore, USA



Ashutosh Tewari
Professor of Urology The Mount Sinai Hospital New York, USA



Inderbir Gill
Chair and Distinguished Professor of Urology, Shirley and Donald Skinner Chair in Urologic Cancer Surgery, Executive Director, USC Institute of Urology, Los Angeles



Alessandro Volpe
Urology Unit, University of Piemonte Orientale Novara, Italy



Jihad H. Kaouk
Director, Center for Robotic and Image Guided Surgery Cleveland Clinic, Cleveland, USA



Jochen Walz
Associate Professor in Urology and Head of the Department of Urology , Institut Paoli-Calmettes Cancer Centre, Marseille, France



Evangelos Liatsikos
Professor of Urology and Head of the Endourology and Laparoscopic Unit at the University of Patras Patras, Greece



Linhui Wang
Professor of Urology Shanghai Changzheng Hospital China



Maria Carmen Mir
Imed Valencia, Spain



Bo Yang
Director Kidney cancer program Department of Urology Changhai Hospital Shanghai, China



Veronique Phè
Professor of Urology at Sorbonne University, Paris, France



Francesco Porpiglia
Professor and Chairman Department of Urology S. Luigi Hospital, Orbassano University of Turin Turin, Italy

INVITED SPEAKERS & MODERATORS

Simone Albisinni
UOSD Urology
Department of Surgical Sciences
University of Rome Tor Vergata
Rome, Italy

Daniele Amparore
Department of Urology San Luigi Gonzaga Hospital, School of Medicine, University of Turin
Orbassano, Italy

Riccardo Bertolo
Urology Department,
Azienda Ospedaliera Universitaria Integrata, University of Verona,
Verona, Italy

Mahendra Bhandari
Senior Bio-scientist and Director of Robotic Surgery Research & Education at the Vattikuti Urology Institute (VUI), Detroit, USA

Nicolò Maria Buffi
Department of Urology,
Humanitas Research Hospital,
Rozzano, Milan, Italy

Riccardo Campi
Department of Urology
Careggi University Hospital
Florence, Italy

Giuseppe Carrieri
Department of Urology
Ospedali Riuniti, University Medical School, Foggia, Italy

Antonio Celia
Head of Department of Urology
San Bassiano Hospital
Bassano del Grappa (VI), Italy

Fabrizio Dal Moro
Department of Urology
University of Padova, Italy

Francesco Del Giudice
Department of Maternal-Infant and Urologic Sciences, Sapienza University of Rome Policlinico Umberto I Hospital
Rome, Italy

Paolo Dell'Oglio
Department of Urology
Niguarda Hospital, Milan, Italy

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Department of Urology
Sant'Andrea Hospital
Rome, Italy

Elisa De Lorenzis
Department of Urology,
Foundation IRCCS Cà Granda Ospedale Maggiore Policlinico,
Milan, Italy

Marco De Sio
Department of Urology
University of Naples, Italy

Michele Di Dio
Department of Urology
SS. Annunziata Hospital
Cosenza, Italy

Francesco Esperto
Campus Biomedico University Hospital
Rome, Italy

Vincenzo Ficarra
Department of Urology
University of Messina
Messina, Italy

Cristian Fiori
Department of Urology
San Luigi Gonzaga Hospital
School of Medicine, University of Turin
Orbassano, Italy

INVITED SPEAKERS & MODERATORS

Andrea Gallioli
Department of Urology,
Puigvert Foundation,
Barcelona, Spain

Michele Marchioni
Department of Urology
University G. D'Annunzio
Chieti Pescara, Italy

Andrea Mari
Department of Urology
AOU Careggi Hospital
Florence, Italy

Salvatore Micali
Professor of Urology
University of Modena and
Reggio Emilia, Italy

Vito Pansadoro
Laparoscopy Center
Vincenzo Pansadoro Foundation
Rome, Italy

Sisto Perdonà
Department of Oncologic Urologic
Surgery At The I.R.C.C.S.
"Fondazione G. Pascale"
Naples, Italy

Stefano Puliatti
Department of Urology
University of Modena and Reggio Emilia
Reggio Emilia, Italy

Abhay Rane
Clinical Lead For Urology Surrey
And Sussex Nhs Trust
Redhill, UK

Bernardo Rocco
Department of Urology
ASST Santi Paolo e Carlo
Milan, Italy

Luigi Schips
Department of Urology
Vasto and Lanciano Hospital
Chieti, Italy

Alessandro Sciarra
Department of Urology
Policlinico Umberto 1 Hospital
Rome, Italy

Silvia Secco
Department of Urology
Hospital Niguarda
Milan, Italy

Nazareno R. Suardi
Associate Professor of Urology,
University of Brescia, Italy

Zhenjie Wu
Associate Professor of Urology
Shanghai Changhai Hospital
China

• *February 29th 2024* •

	SCREEN #1	SCREEN #2
8.00 - 8.30	***Welcome and Opening***	
Moderators	*Riccardo Bertolo* *Francesco Esperto*	*Nicolò Buffi* *Andrea Gallioli*
8.30 - 10.00	***Digital twin assisted planning for LAP Radical Nephrectomy*** *Maria Carmen Mir*	***Digital twin assisted planning for NS-RARP*** *Carlo Terrone*
Moderators	*Francesco Del Giudice* *Sisto Perdonà*	*Giuseppe Carrieri* *Michele Marchioni*
10.00 - 11.30	***Robot-assisted partial nephrectomy in a complex renal tumor*** *Bo Yang*	***Digital twin assisted planning for RARP in locally advanced PCa*** *Jochen Walz*
Moderators	*Riccardo Campi* *Alessandro Volpe*	*Fabrizio Dal Moro* *Andrea Mari*
11.30 - 13.00	***Digital twin assisted clamping strategy planning for RAPN*** *Alberto Breda*	***Robotic sacrocolpopexy*** *Veronique Phè*
13.00 - 14.00	***Lunch Break***	
Moderators	*Paolo Dell'Oglio* *Alberto Breda*	*Cosimo De Nunzio* *Zhenjie Wu*
14.00 - 15.30	***Digital twin assisted surgical planning for minimal anatomical impact RAPN*** *Francesco Porpiglia*	***Single port retroperitoneal Robotic Partial Nephrectomy with IRIS technology*** *Ahmed Ghazi*
Moderator	*Simone Albisinni* *Nazareno R. Suardi*	*Andrea Gallioli* *Salvatore Micali*
15.30 - 17.00	***Digital twin assisted planning for Retzius Sparing-RARP*** *Antonio Galfano*	***Digital twin assisted enucleative strategy planning for RAPN*** *Ruben De Groote*
Moderators	*Niccolò Buffi* *Cosimo De Nunzio*	*Francesco Esperto* *Bernardo Rocco*
17.00 - 18.30	***SP transvesical RARP*** *(Semi Live)* *Jihad H. Kaouk*	***Robotic bladder transplantation*** *(Semi Live)* *Inderbir Gill*
	3D models and extended reality for Robotic Urologic Surgery: first course on pig models *Daniele Amparore, Riccardo Campi, Stefano Puliatti* *Mahendra Bhandari, Francesco Porpiglia*	

• March 1st 2024 •

	SCREEN #1	SCREEN #2
Moderators	Mahendra Bhandari Ruben De Groote	Francesco Del Giudice Vincenzo Ficarra
8.30 - 10.00	***Digital twin assisted surgical strategy planning for RAPN*** Alessandro Volpe	***Digital twin assisted surgical planning for LAP Partial Nephrectomy*** Evangelos Liatsikos
Moderators	Simone Albisinni Luigi Schips	Riccardo Bertolo Zhenjie Wu
10.00 - 11.30	***Digital twin assisted planning for energy-free clipless total anatomical RARP*** Francesco Porpiglia	***Complex robotic surgery for locally advanced kidney cancer with tumor thrombus*** Wang Linhui
Moderators	Riccardo Campi Silvia Secco	Michele Marchioni Vito Pansadoro
11.30 - 13.00	***Digital twin assisted clamping strategy planning for RAPN*** Riccardo Autorino	***Digital twin assisted planning for NS-RARP*** Bernardo Rocco
13.00 - 14.00	***Lunch Break***	
Moderators	Elisa De Lorenzis Marco De Sio	Francesco Esperto Abhay Rane
14.00 - 15.30	***Digital twin assisted resection strategy planning for RAPN*** Riccardo Schiavina	***Retroperitoneal RAPN*** Ronney Abaza
Moderator	Michele Di Dio Cristian Fiori	Antonio Celia Paolo Dell'Oglio
15.30 - 17.00	***Digital twin assisted planning for robotic ureteral reimplantation*** Alessandro Antonelli	***Digital twin assisted surgical strategy planning for anterior RAPN*** Ravi Barod
Moderators	Abhay Rane Alessandro Volpe	Stefano Puliatti Alessandro Sciarra
17.00 - 18.30	***Hood-RARP with hydro-disection*** Ashutosh Tewari	***Single Port Retroperitoneal surgery*** Simone Crivellaro
18:30 - 19:00	***Lecture: Luts and chronic in BPH: an update*** Michele Di Dio	

SCIENTIFIC SECRETARIAT

Daniele Amparore
Department of Urology, San Luigi Gonzaga Hospital, School of Medicine, University of Turin, Orbassano, Italy

Riccardo Autorino
Professor of Urology, Director of Surgical Innovation, Rush University Medical Center Chicago, IL, USA

Alberto Breda
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Cristian Fiori
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Francesco Porpiglia
Professor and Chairman Department of Urology, San Luigi Gonzaga Hospital, School of Medicine, University of Turin,Orbassano, Italy

ORGANIZING COMMITTEE FOR LIVE SURGERY

Staff of the hosting Department of Urology San Luigi Gonzaga Hospital, School of Medicine, University of Turin, Orbassano, Italy

Paolo Alessio

Daniele Amparore

Giovanni Cattaneo

Enrico Checcucci

Marco Cossu

Sabrina De Cillis

Stefano De Luca

Michele Di Dio

Cristian Fiori

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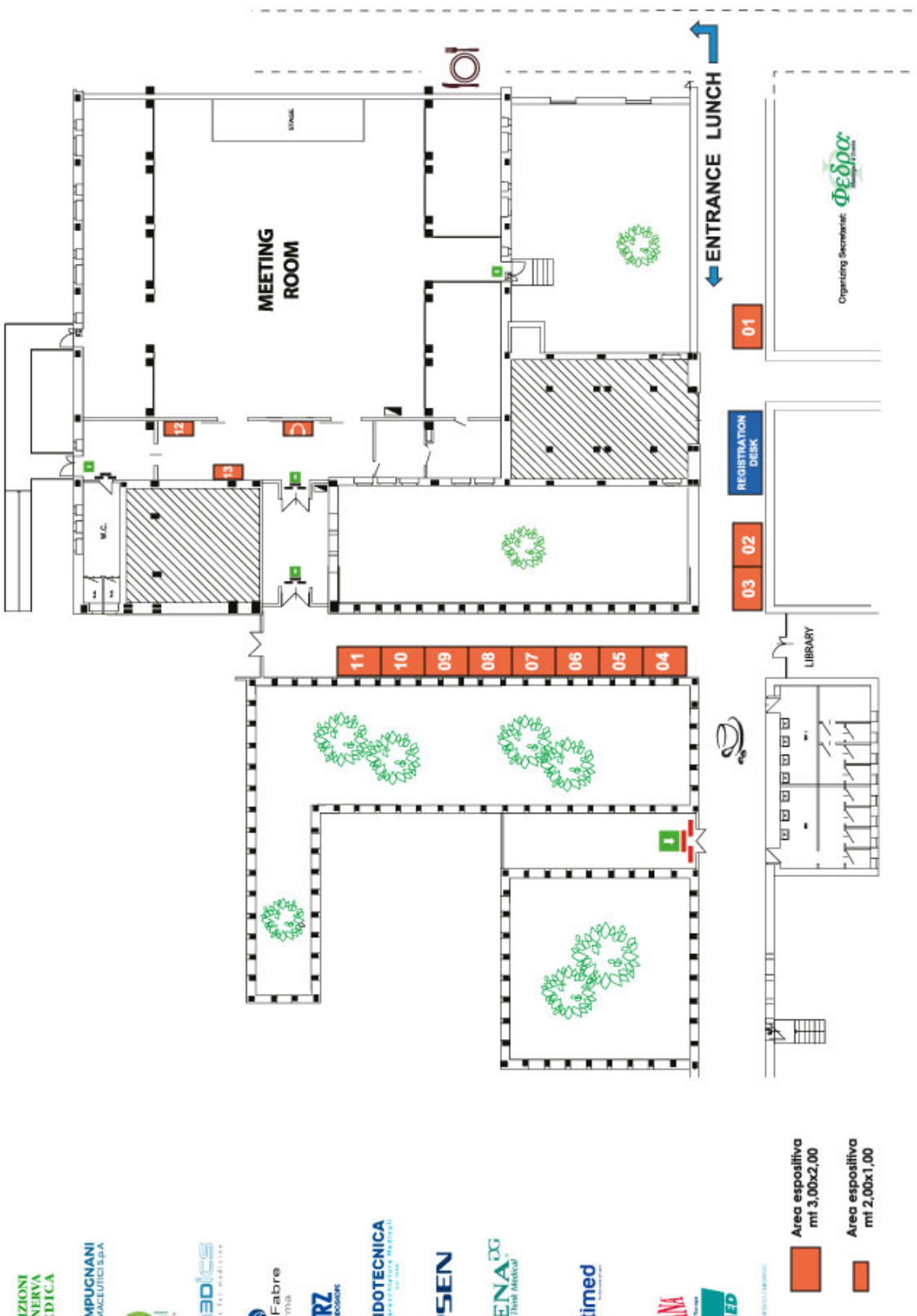
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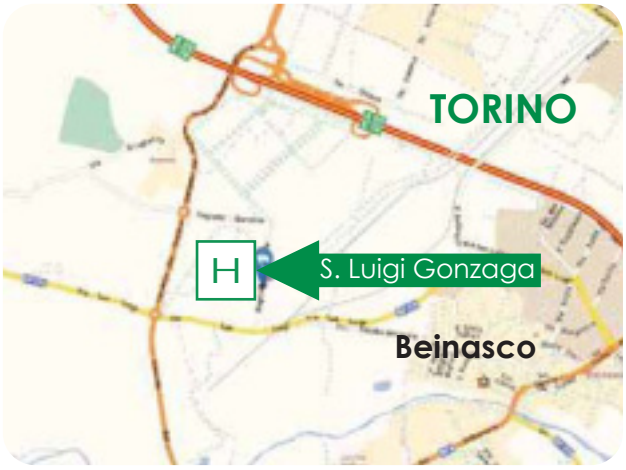


EXHIBITION FLOOR PLAN



CONGRESS VENUE

Aula Convegni - S. Luigi Gonzaga Hospital
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10043 - Orbassano, Turin, Italy



MEETING PLANNER

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www.fedracongressi.com

OFFICIAL LANGUAGE

The official language of the Congress is English.

REGISTRATION FEE

Delegates:
Between October 15th, 2023 and December 15th, 2023: ..... €. 500,00
After December 15th, 2023: ..... €. 600,00

Trainee/Residents:
Between October 15th, 2023 and December 15th, 2023: ..... €. 200,00
After December 15th, 2023: ..... €. 300,00

The registration fee includes scientific program, lunches, and coffee breaks during the event.

WEBSITE

Visit our website at:
www.technourologymeeting.com

ITALIAN ECM ACCREDITATION

The 12th INTERNATIONAL TECHNO-UROLOGY MEETING has been accredited by the Italian Ministry of Health.

The Italian Ministry of Health assigned n. 18 ECM Credits (2-Linee guida-protocolli-procedure).

The Congress has been accredited for the following specialties:

- Oncology
- Radiotherapy
- Urology
- Pathological anatomy
- Radiodiagnostics

In order to receive Italian credits participants must attend 90% of the event and pass the final test.

WEBSITE

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