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*

11th INTERNATIONAL TECHNO-UROLOGY MEETING (TUM)

EXPLORING THE METAVERSE

13th - 14th April 2023

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



Requested patronage of:

INTRODUCTION

Dear Friends,

We are happy to announce the 11th edition of TUM that will be held on 13-14 April 2023.

During the past years, we worked to improve and sharpen the technologies for laparoscopic and robotic urologic surgery.

Starting from 3D guided surgeries, 4K vision and highly technological broadcasting system, we tried to offer the participants the most possible immersive experience since the first editions of our meeting.

Then, thanks to the study of 3D virtual models of the organs obtained from standard imaging, we explored multiple fields, from augmented reality to mixed reality surgery, aiming to improve the planning and intraoperative guidance following the information given by virtual models of the real anatomy, maximizing the surgeon awareness in performing the interventions.

These technologies have been performed first in a semi-automatic setting, and then with augmented reality platforms driven by artificial intelligence technology.

Indeed, with the aid given by artificial intelligence in refining precision details of the augmented reality procedures, it is nowadays possible to perform many steps of such "super-vision" guided surgery automatically, without the need of any hand-assistance.

Finally, due to the pandemic, we developed a dedicated platform allowing the participants all over the world to attend our technological event, implementing the broadcasted surgeries and exploring also the field of tele-mentoring application of 3D virtual guidance with remote control.

Following this direction, with the aim to improve the fruition of 3D models and the sharing of the images we created a new immersive platform for a virtual reality experience, enjoyed in the Metaverse.

In this TUM23 edition, the surgeons who joined us in the past, will be invited to test once again the newest innovations of the last two years, implemented and enriched in the last months, refined in their details and usability, in order to test their replicability and application.

From perfectioned augmented reality and 3D virtual models, with a surgical navigation driven by artificial intelligence, to the preoperative case discussion in the metaverse with surgeons' avatars we hope to make other steps further in the "technology-driven" surgery.

I'm sure that this special edition of TUM, will be a great success for both the great number of surgical innovative technologies presented as well as for the prestigious faculty of surgeons coming from all over the world.

Hoping that the attendees will enjoy our ambitious program, I welcome you all to Turin for this 11th edition of TUM!

Kind regards.






Francesco Porpiglia | Alberto Breda | Ali Gozen | Alex Mottrie



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.

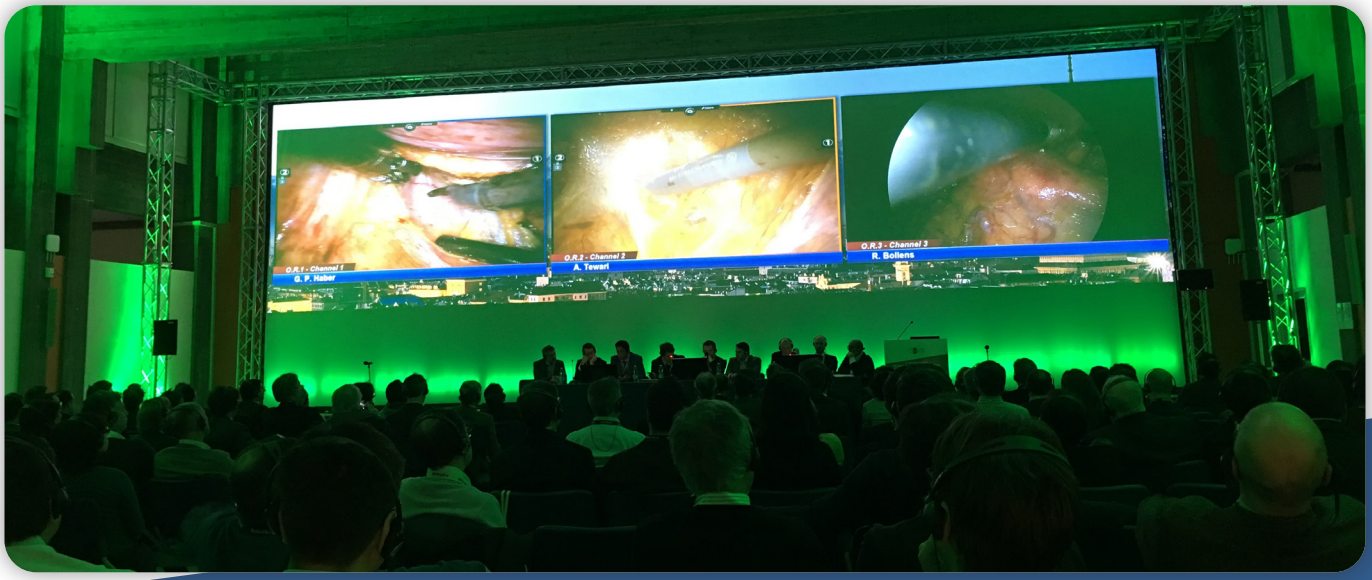
Together with the clinical activity, also the teaching activity has a primary role, being our Department the Center for the Urology Residency Program.

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



Alessandro Antonelli
Department of Surgery, Dentistry
Paediatrics and Gynaecology
Confortini Hospital, Borgo Trento
Verona, Italy



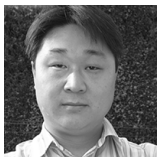
Alberto Breda
Chief of the Uro-Oncology Division
and Director of the Kidney Transplant
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Riccardo Autorino
Professor of Urology
Director of Surgical Innovation
Rush University Medical Center
Chicago, IL, USA



Edward Cherullo
Chair, Department of Urology
Professor, Department of Urology
RUSH Medical College
Chicago, USA



Renaud Bollens
Groupe Hospitalier de l'Institut
Catholique de Lille, France
Centre Hospitalier de Wallonie
Picarde, Tournai, Belgium



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

INVITED SURGEONS



Antonio Galfano
Department of Urology
Niguarda Hospital
Milan, Italy



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



Ahmed Ghazi
Department of Urology
Strong Memorial Hospital
Highland Hospital Of Rochester
and Unity Hospital, NY, USA



Craig Rogers
Chair of Urology
Vattikuti Urology Institute
Henry Ford Hospital
Detroit, USA



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



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



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



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



Wang Linhui
Professor of Urology
Shanghai Changzheng Hospital
China



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



Andrea Minervini
Department of Urology
Careggi University Hospital,
Florence, Italy



Peter Wiklund
Professor of Urology Department
of Urology Karolinska University
Hospital
Stockholm, Sweden



Alex Mottrie
Department of Urology Orsi Academy
and OLV Clinic, Aalst, Belgium



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



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



James Porter
Director, Robotic Surgery
Swedish Medical Center
Seattle, Washington, USA

INVITED SPEAKERS & MODERATORS

Simone Albisinni
Department of Urology
University of Tor Vergata
Rome, Italy

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

Alessandro Antonelli
Department of Surgery, Dentistry Paediatrics and Gynaecology
Confortini Hospital, Borgo Trento
Verona, Italy

Riccardo Bertolo
Department of Urology
S. Carlo di Nancy Hospital
Rome, Italy

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
Department of Urology
San Bassiano Hospital
Bassano del Grappa, Italy

Fabrizio Dal Moro
Department of Urology
University of Padova, Italy

Francesco Del Giudice
Sapienza University of Rome
Rome, Italy

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

Cosimo De Nunzio
Department of Urology
Sant'Andrea Hospital
Rome, 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

Giorgio Gandaglia
Department of Urology
I.R.C.C.S. san Raffaele Hospital
Milan, Italy

INVITED SPEAKERS & MODERATORS

Ali Serdar Gozen
Slk Kliniken Urology
Department Heidelberg
University Heilbronn, Germany

Alessandro Larcher
Department of Urology
San Raffaele Turro Hospital
Milan, Italy

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

Giovannalberto Pini
Department of Urology
IRCCS Ospedale San Raffaele Turro
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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

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

Silvia Secco
Department of Urology
Hospital Niguarda
Milan, Italy

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

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

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

Zhenjie Wu
Associate Professor of Urology
Shanghai Changhai Hospital
China

• *April 13th 2023* •

	SCREEN #1	SCREEN #2
8.00 - 8.30	***Welcome and Opening***	
Moderators	*Nicolò Buffi* *Stefano Puliatti*	*Michele Marchioni* *Alessandro Volpe*
8.30 - 10.00	***Metaverse 3D Surgical Planning and Nerve-Sparing RARP*** *Carlo Terrone*	***Metaverse 3D Surgical Planning and Nerve-Sparing RARP with HUGO-RAS*** *Alex Mottrie*
Moderators	*Fabrizio Dal Moro* *Stefano Puliatti*	*Giuseppe Carrieri* *Michele Marchioni*
10.00 - 11.30	***3D RAPN for very complex tumour*** *Linhui Wang*	***Metaverse 3D Surgical Planning and 3D Icon-LPN*** *Edward Cherullo*
Moderators	*Alessandro Antonelli* *Riccardo Campi*	*Giorgio Gandaglia* *Giovannalberto Pini*
11.30 - 13.00	***Metaverse 3D Surgical Planning for Vascular Clamping and 3D guided RAPN*** *Alberto Breda*	***Metaverse 3D Surgical Planning for Robotic Hemi-Prostatectomy*** *Francesco Porpiglia*
13.00 - 14.00	***Lunch Break***	
Moderators	*Riccardo Campi* *Nazareno Suardi*	*Cosimo De Nunzio* *Giorgio Gandaglia*
14.00 - 15.30	***Metaverse 3D Surgical Planning for Vascular Clamping and 3D guided RAPN*** *Alessandro Antonelli*	***RAPN for endophytic tumor*** *(Semi Live - 8.00 am Detroit Time)* *Craig Rogers* ***Laparoscopic Pudendal Nerve Release*** *Renaud Bollens*
Moderator	*Riccardo Bertolo* *Alberto Breda*	*Vito Pansadoro* *Abhay Rane*
15.30 - 17.00	***Metaverse 3D planning and AI guided automatic AR-RAPN with minimal anatomical impact*** *Francesco Porpiglia*	***Metaverse 3D Surgical Planning and Nerve-Sparing RARP*** *Peter Wiklund*
Moderators	*Riccardo Bertolo* *Antonio Celia*	*Vito Pansadoro* *Alessandro Sciarra*
17.00 - 18.30	***Metaverse 3D Surgical Planning and Retzius Sparing RARP*** *Antonio Galfano*	***Single Port Transvesical RARP*** *(Semi Live - 11.00 Cleveland time)* *Jihad H. Kaouk*

• *April 14th 2023* •

	SCREEN #1	SCREEN #2
Moderators	*Paolo Dell'Oglio* *Ali Gozen*	*Simone Albisinni* *Luigi Schips*
8.30 - 10.00	***Metaverse 3D Surgical Planning for tumor enucleation and 3D guided RAPN*** *Andrea Minervini*	***Metaverse 3D Nerve-Sparing Surgical Planning and RARP with Hood technique*** *Ashutosh Tewari*
Moderators	*Paolo Dell'Oglio* *Silvia Secco*	*Simone Albisinni* *Marco De Sio*
10.00 - 11.30	***Metaverse 3D Surgical Planning and Nerve-Sparing Laparoscopic Radical Prostatectomy*** *Evangelos Liatsikos*	***RAPN for complex renal tumour*** *Bo Yang*
Moderators	*Francesco Del Giudice* *Abhay Rane*	*Ali Gozen* *Alessandro Larcher*
11.30 - 13.00	***Nerve-Sparing RARP*** *Bernardo Rocco*	***Metaverse 3D Surgical Planning and RAPN with retroperitoneal approach*** *James Porter*
13.00 - 14.00	**Lunch Break**	
Moderators	*Francesco Del Giudice* *Vito Pansadoro*	*Alessandro Larcher* *Abhay Rane*
14.00 - 15.30	***Buccal Mucosa Graft for 3D-AR Robotic Uretheral Stricture Repair*** *Francesco Porpiglia*	***Metaverse 3D Surgical Planning and 3D Icon-LPN*** *Renaud Bollens*
Moderator	*Michele Di Dio* *Andrea Mari*	*Francesco Esperto* *Salvatore Micali*
15.30 - 17.00	***SP-RAPN with IRIS technology*** *Ahmed Ghazi*	***Metaverse 3D Surgical Planning for vascular Clamping and 3D guided RAPN*** *Riccardo Schiavina*
Moderators	*Andrea Mari* *Zhenje Wu*	*Francesco Esperto* *Cristian Fiori*
17.00 - 18.30	***Metaverse 3D Surgical Planning and 3D guided RAPN*** *Riccardo Autorino*	***Single Port RAPN with Retroperitoneal approach*** *Simone Crivellaro*
18:30 - 19:00	***Lecture Luts and chronic in BPH: an update*** *Daniele Amparore*	
19:00	***ECM Test*** *(For Italian Delegates only)*	

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

Enrico Checcucci
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Cristian Fiori
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Alex Mottrie
Department of Urology O.L.V. Clinic Aalst, Belgium

Francesco Porpiglia
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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

Stefano De Luca

Michele Di Dio

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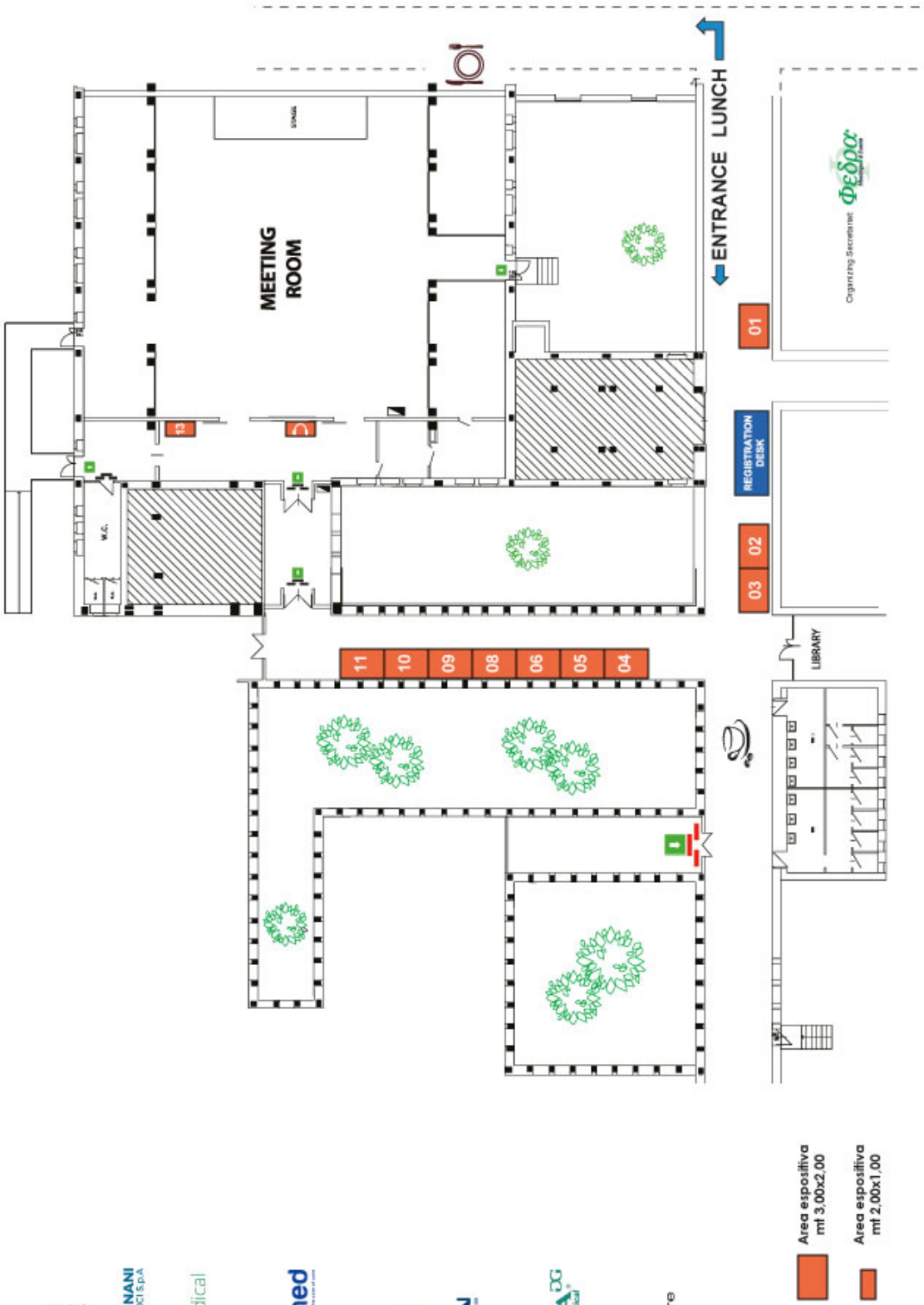
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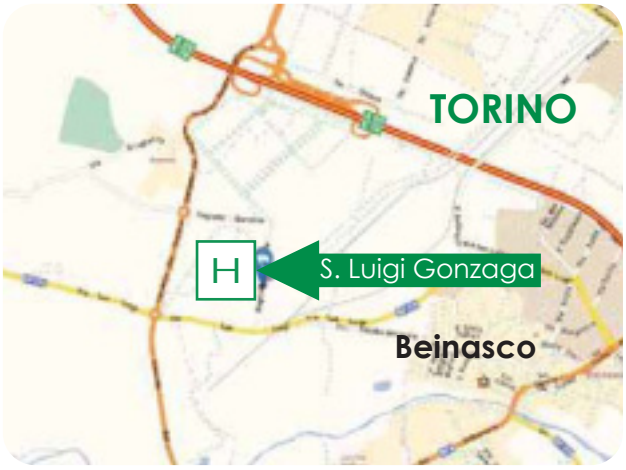


EXHIBITION FLOOR PLAN



CONGRESS VENUE

Aula Convegni - S. Luigi Gonzaga Hospital
Regione Gonzole, 10
10043 - Orbassano, Turin, Italy



MEETING PLANNER

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Fax +39 06 5205625
info@fedracongressi.com
www.fedracongressi.com

OFFICIAL LANGUAGE

The official language of the Congress is English.

REGISTRATION FEE

Delegates:
Between October 1th, 2022 and December 17th, 2022 ..... €. 450,00
After December 17th, 2022 ..... €. 550,00

Trainee/Residents:
Between October 1th, 2022 and December 17th, 2022 ..... €. 150,00
After December 17th, 2022 ..... €. 250,00

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

ITALIAN ECM ACCREDITATION

The 11TH 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

Visit our website at:
www.technourologymeeting.com



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