



*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



# 11<sup>th</sup> INTERNATIONAL TECHNO-UROLOGY MEETING (TUM) EXPLORING THE METAVERSE

13<sup>th</sup> - 14<sup>th</sup> April 2023

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



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## 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 perfected 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.

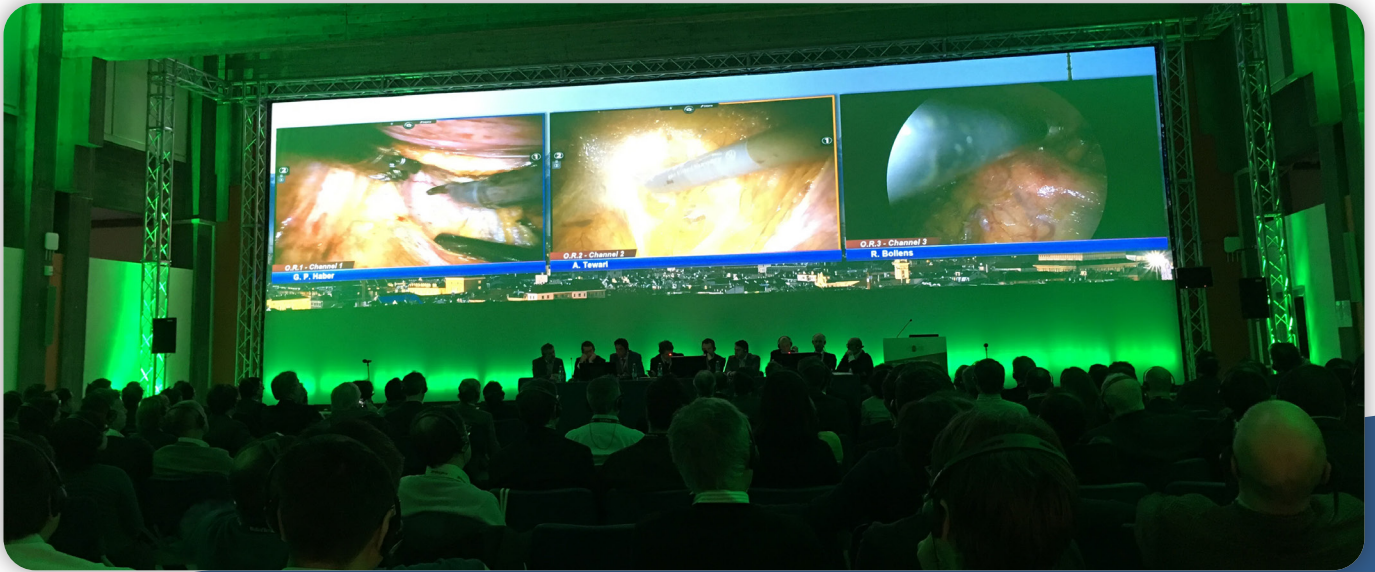
Our intensive scientific and research activity is widely recognized as demonstrated by the publications in the most famous international peer-reviewed journals.





# 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



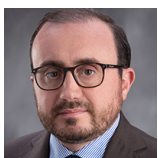
## INVITED SURGEONS



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



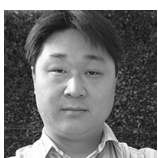
**Alberto Breda**  
Chief of the Uro-Oncology Division  
and Director of the Kidney Transplant  
Unit Fundació Puigvert  
Barcelona, Spain



**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



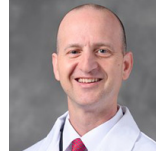
**Antonio Galfano**  
Department of Urology  
Niguarda Hospital  
Milan, Italy



**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



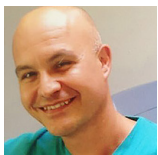
**Carlo Terrone**  
Chief Department of Urology  
San Martino Hospital  
Genova, Italy



**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



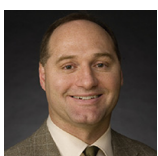
**Alex Mottrie**  
Department of Urology Orsi Academy  
and OLV Clinic, Aalst, Belgium



**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



### **Francesco Del Giudice**

Sapienza University of Rome  
Rome, Italy



### **Daniele Amparore**

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



### **Paolo Dell'Oglio**

Department of Urology  
Niguarda Hospital, Milan, Italy



### **Alessandro Antonelli**

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



### **Cosimo De Nunzio**

Department of Urology  
Sant'Andrea Hospital  
Rome, Italy



### **Riccardo Bertolo**

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



### **Marco De Sio**

Department of Urology  
University of Naples, Italy



### **Nicolò Maria Buffi**

Department of Urology,  
Humanitas Research Hospital,  
Rozzano, Milan, Italy



### **Michele Di Dio**

Department of Urology  
SS. Annunziata Hospital  
Cosenza, Italy



### **Riccardo Campi**

Department of Urology  
Careggi University Hospital  
Florence, Italy



### **Francesco Esperto**

Campus Biomedico  
University Hospital  
Rome, Italy



### **Giuseppe Carrieri**

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



### **Vincenzo Ficarra**

Department of Urology  
University of Messina  
Messina, Italy



### **Antonio Celia**

Department of Urology  
San Bassiano Hospital  
Bassano del Grappa, Italy



### **Cristian Fiori**

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



### **Fabrizio Dal Moro**

Department of Urology  
University of Padova, 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 Sciarra**

Department of Urology  
Policlinico Umberto 1 Hospital  
Rome, Italy



**Alessandro Larcher**

Department of Urology  
San Raffaele Turro Hospital  
Milan, Italy



**Silvia Secco**

Department of Urology  
Hospital Niguarda  
Milan, Italy



**Michele Marchioni**

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



**Luigi Schips**

Department of Urology  
Vasto and Lanciano Hospital  
Chieti, Italy



**Andrea Mari**

Department of Urology  
AOU Careggi Hospital  
Florence, Italy



**Nazareno Suardi**

Associate Professor of Urology,  
University of Brescia, Italy



**Salvatore Micali**

Professor of Urology  
University of Modena and  
Reggio Emilia, Italy



**Alessandro Volpe**

Urology Unit, University of  
Piemonte Orientale  
Novara, Italy



**Vito Pansadoro**

Laparoscopy Center  
Vincenzo Pansadoro Foundation  
Rome, Italy



**Zhenjie Wu**

Associate Professor of Urology  
Shanghai Changhai Hospital  
China



**Giovannalberto Pini**

Department of Urology  
IRCCS Ospedale San Raffaele Turro  
Milan



**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





# PROGRAM

• April 13<sup>th</sup> 2023 •

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



# PROGRAM

• April 14<sup>th</sup> 2023 •

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

Department of Urology Istituto di Candiolo IRCCS, Turin, Italy

**Cristian Fiori**

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

**Alex Mottrie**

Department of Urology O.L.V. Clinic Aalst, Belgium

**Francesco Porpiglia**

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**

**Stefano De Luca**

**Michele Di Dio**

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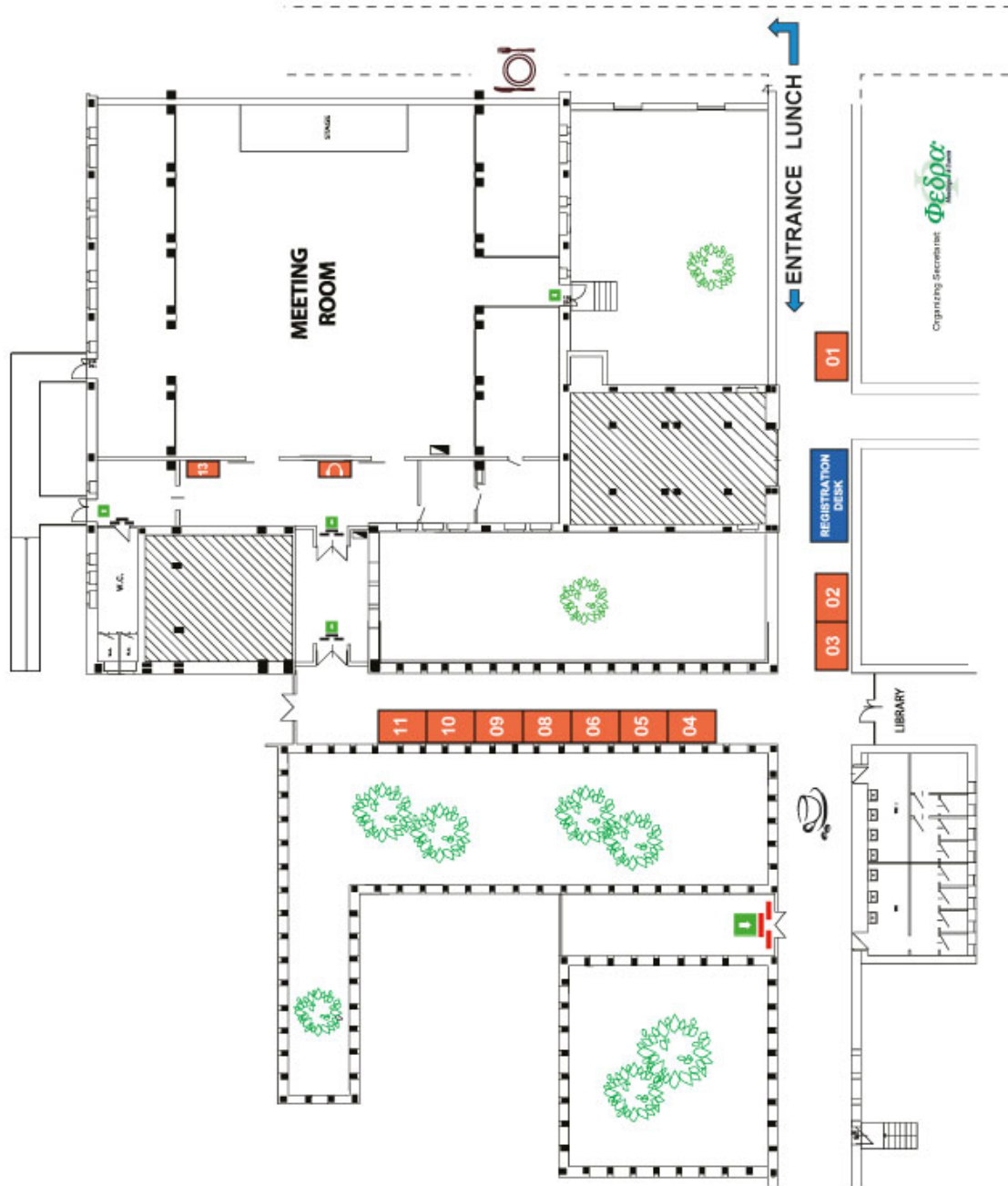


SUPPORTERS





# EXHIBITION FLOOR PLAN



- 01 -  EDIZIONI MINERVA MEDICA
- 02 -  LAMPUGNANI FARMACEUTICI S.p.A.
- 03 -  bk medical
- 04 -  Multimed
- 05 -  Multimed
- 06 -  STORZ
- 08 -  IPSEN
- 09 -  GRENE
- 10 -  GRENE
- 11 -  Pierre Fabre Pharma
- 13 -  LAUROTELANA

 Area espositiva  
mf 3,00x2,00

 Area espositiva  
mf 2,00x1,00



## CONGRESS VENUE

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



## MEETING PLANNER



### **FEDRA Congressi**

Provider ECM n° 3376  
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00144 Rome, Italy  
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Fax +39 06 5205625  
[info@fedracongressi.com](mailto:info@fedracongressi.com)  
[www.fedracongressi.com](http://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 11<sup>TH</sup> 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](http://www.technourologymeeting.com)





**FEDRA Congressi**

Viale dei SS. Pietro e Paolo, 21  
00144 Rome, Italy  
Ph. +39 06 52247328  
Fax +39 06 5205625  
info@fedracongressi.com  
www.fedracongressi.com  
www.techneurologymeeting.com