



San Luigi Gonzaga Hospital, Orbassano, Torino, Italy
Candiolo Cancer Institute - IRCCS, Candiolo, Torino, Italy
Department of Oncology - University of Turin, Orbassano, Turin, Italy

Chairmen:

Francesco Porpiglia

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



10TH INTERNATIONAL TECHNO-UROLOGY MEETING (TUM) BEYOND AUGMENTED REALITY SURGERY

27th - 28th January 2022



Requested patronage of:



INTRODUCTION

Dear Friends,

After a decade, TUM is nowadays ready to celebrate its 10th edition, on January 2022.

In the last ten years, we worked to improve and sharpen the technologies for laparoscopic and robotic urologic surgery.

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

Then, thanks to the study of 3D virtual models of the organs derived from standard imaging, we explored many fields, from augmented reality to mixed reality surgery, with the aim to improve planning and intraoperative guidance following the information given by virtual models on 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 needing any hand-assistance.

At last, due to the pandemic, we developed a dedicated platform to allow 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.

In this tenth year, 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 details and usability, in order to test their duplicability and application.

From augmented reality and 3D virtual models perfected as well as the implementation of artificial intelligence we hope to make other steps further the "micro-surgery and automatic image-guidance warning systems.

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 all of you to Turin for this 10th edition of TUM!

Kindest regards.



Francesco Porpiglia



Alberto Breda



Alex Mottrie



Riccardo Autorino



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

Sala 500 - Centro congressi Lingotto



INVITED SURGEONS



Riccardo Autorino
Director of Urologic Oncology
Division of Urology Virginia
Commonwealth University
Richmond, VA, USA



Antonio Galfano
Department of Urology
Niguarda Hospital
Milan, Italy



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



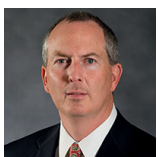
Evangelos Liatsikos
Professor of Urology and Head of
the Endourology and Laparoscopic
Unit at the University of Patras
Patras, Greece



Prokar Dasgupta
Professor and Chair of Urology at
King's College London,
Guy's Hospital, King's Health Partners
London, UK



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



Lance J. Hampton
Chairman of Urology
Director of Robotic Surgery
Virginia Commonwealth University
Richmond, VA, USA



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



INVITED SURGEONS



Vipul Patel

Medical Director, AdventHealth
Global Robotics Institute
Medical Director, AdventHealth
Urologic Oncology Program
Professor of Urology, University of
Central Florida, USA



Ashutosh Tewari

Professor of Urology
The Mount Sinai Hospital
New York, USA



Veronique Phè

Prof. of Urology
Sorbonne University
Paris, France



Peter Wiklund

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



Francesco Porpiglia

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



Jochen C. Walz

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



James Porter

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



Bo Yang

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



Maria Ribal

Head of the Uro-Oncology Unit
Hospital Clinic
University of Barcelona, Spain



Wu Zhenjie

Associate Professor of Urology
Shanghai Changzheng Hospital
China



Michael Stifelman

Chair of Urology and Director of
Robotic Surgery Hackensack University
Medical Center
Hackensack, NJ, USA



Carlo Terrone

Chief Department of Urology
San Martino Hospital
Genova, Italy















PROGRAM

• January 27th 2021 •

	SCREEN #1	SCREEN #2
8.30 - 10.00	ICON Cognitive 3D guided Laparoscopic Partial Nephrectomy Maria Ribal 	Hand assisted Augmented Reality Robot-assisted Partial Nephrectomy Andrea Minervini 
10.00 - 11.00	Robot-assisted Radical Prostatectomy with Proximie augmented reality technology (Broadcasted from UK) Prokar Dasgupta 	Robot-assisted Partial Nephrectomy (Broadcasted from China) Bo Yang 
11.00 - 12.30	Cognitive tele-mentored 3D guided Robot-assisted Partial Nephrectomy Alberto Breda 	ICG guided Regional Vascular modelling Augmented Reality Robot-assisted Partial Nephrectomy Francesco Porpiglia 
12.30 - 13.00	Lunch Break	
13.00 - 15.00	Artificial Intelligence automatic Augmented Reality Robot-assisted Radical Prostatectomy Francesco Porpiglia 	Robot-assisted Radical Prostatectomy (Broadcasted from US *Connection time 12.30) Vipul Patel 
15.00 - 16.30	Robot-assisted Partial Nephrectomy (Broadcasted from US *Local time 9 AM) Lance Hampton 	Single port Robot-assisted Radical Cystectomy (Broadcasted from US *Local time 9 AM) Peter Wiklund 
16.30 - 18.00	Retroperitoneal Robot-assisted Partial Nephrectomy/Lymph node dissection (Broadcasted from US *Local time 7.30 AM) James Porter 	Retzius Sparing Robot-assisted Radical Nephrectomy Antonio Galfano 

PROGRAM

• January 28th 2021 •

	SCREEN #1	SCREEN #2
8.30 - 10.00	ICON Cognitive 3D guided Laparoscopic Radical Nephrectomy Evangelos Liatzikos 	ICG guided Rainbow Vascular modelling Augmented Reality Robot-assisted Partial Nephrectomy Alex Mottrie 
10.00 - 11.00	Robot-assisted Radical Nephro-ureferectomy with PRESS technique (Broadcasted from China) Wu Zhenije 	Robot-assisted Colposacropexys (Broadcasted from France) Veronique Phè 
11.00 - 12.30	ICON AR 3D guided Laparoscopic Partial Nephrectomy Francesco Porpiglia 	Augmented Reality Robot-assited Radical Prostatectomy Carlo Terrone 
12.30 - 13.00	Lunch Break	
13.00 - 15.00	Robot-assited Radical Prostatectomy (Broadcasted from US *Connection time 14.00) Ashutosh Tewari 	Augmented Reality Robot-assisted Partial Nephrectomy Riccardo Autorino 
15.00 - 16.30	Robot assited radical prostatectomy (Broadcasted from France) Jochen C. Walz 	ICON 3D guided Laparoscopic Partial Nephrectomy Renaud Bollens 
16.30 - 18.00	Warning systems for safety surgery guidance in Robot-assisted Radical Prostatectomy Francesco Porpiglia 	Robot-assisted Partial Nephrectomy with Iris guidance by Intuitive (Broadcasted from US *Connection time 10.30) Michael Stifelman 

CONGRESS VENUE

Sala 500
 Centro Congressi Lingotto
 Via Nizza, 280, 10126 Torino TO

MEETING PLANNER



FEDRA Congressi

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OFFICIAL LANGUAGE

The official language of the Congress is English.

REGISTRATION FEE

Delegates:

Until September 30th	€. 350,00
Between September 30th, 2021 and December 15th, 2021	€. 420,00
After December 15th, 2021	€. 500,00

Web Delegates:

Until September 30th	€. 250,00
Between September 30th, 2021 and December 15th, 2021	€. 320,00
After December 15th, 2021	€. 400,00

Trainee/Residents:

Until September 30th	€. 100,00
Between September 30th, 2021 and December 15th, 2021	€. 150,00
After December 15th, 2021	€. 250,00

Web Trainee/Residents:

Until September 30th	€. 50,00
Between September 30th, 2021 and December 15th, 2021	€. 100,00
After December 15th, 2021	€. 200,00

ITALIAN ECM ACCREDITATION

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.technoneurologymeeting.com



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