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
Jihad H. Kaouk
Center for Robotic and Image-guided Surgery, Cleveland Clinic, Cleveland, OH, USA
Alex Mottrie
Department of Urology O.L.V. Clinic Aalst, Belgium
Riccardo Autorino
Division of Urology, VCU Health, Richmond, VA, USA

9TH INTERNATIONAL TECHNO-UROLOGY MEETING (TUM)
THE ADVENT OF ARTIFICIAL INTELLIGENCE
28th - 29th January 2021
VIRTUAL

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INTRODUCTION

Dear Friends,

TUM is once again approaching, on January 28-29th 2021, with its 9th edition, despite the recent COVID pandemic, which very much impacted our personal and work life.

Over the past few years, we have been working to improve and sharpen the technologies for minimally-invasive urologic surgery.

Starting from Hyper-Accuracy 3D reconstructions from standard imaging we explored the fields of augmented reality and mixed reality surgery, with the aim to virtually plan and intraoperatorively enhance the real anatomy, maximizing the information for the surgeon performing the intervention.

In the past editions of TUM these two technologies, performed in a semi-automatic setting, have been widely investigated and experienced by the surgeons.

The upcoming edition of the meeting will be the stage for presenting live for the first time, our last great innovation, the new augmented reality platform entirely 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 image-guided surgery automatically, without needing any hand-assistance.

In this scenario, many Italian and European expert surgeons, have been invited to experience such new technologies during the live surgery sessions from our operative rooms.

At the same time, eminent overseas surgeons will be involved in the meeting with broadcasted surgeries, to show their latest improvements of different robotic and laparoscopic procedures.

The event will be under the auspices of the most prestigious international societies of minimally invasive surgery, in light of the high quality level gained by the TUM over the years.

A dedicated online platform will be available to allow people to follow the event virtually.

We would like to welcome those who have decided to come back after joining us during the previous editions, and those who are new to the TUM.

We look forward to meeting you virtually!

Kindest regards.

Francesco Porpiglia
Jihad H. Kaouk
Alex Mottrie
Riccardo Autorino
HONORARY CONGRESS PRESIDENT

Dario Fontana
Professor of Urology
University of Turin, Italy

Roberto Mario Scarpa
Campus Biomedico
University Hospital
Rome, Italy

INVITED SURGEONS

Alessandro Antonelli
Chairman, Department of Urology
A.O.U.I. Verona University, Italy

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

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

Ithaar H. Derweesh
Professor of Urology and Radiology
Program Director, Urologic Oncology
Fellowship UC San Diego School
of Medicine, San Diego, USA

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

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

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

Vito Pansadoro  
Director of the Laparoscopy Center  
Vincenzo Pansadoro Foundation  
Rome, Italy

Aly Abdel Karim  
Professor of Urology, Alexandria University, Egypt

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

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

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

Wang Linhui  
Professor of Urology  
Shanghai Changzheng Hospital  
China

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

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

Koon Ho Rha  
Assistant Professor of Urology and Robotic and Minimally Invasive Surgery Center, Yonsei University  
Seoul, South Korea

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

Maria Ribal  
Head of the Uro-Oncology Unit  
Hospital Clinic  
University of Barcelona, Spain
**Jens-Uwe Stolzenburg**
Director of Department of Urology
Chairman of International Urological Training Centre of Laparoscopy and Robotic-assisted Surgery, University of Leipzig
Leipzig, Germany

**Chao Zhang**
Department of Urology
Changzheng Hospital
Shanghai, China

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

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

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

**Homayoun Zargar**
Department of Urology
Royal Melbourne Hospital
Melbourne, Australia

**Wu Zhenjie**
Associate Professor of Urology
Shanghai Changzheng Hospital
China
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.
**Day 1**

8.00 - 8.30 Welcome  
Stefano Geuna (Rector of University of Turin), Roberto Mario Scarpa (President Italian Society of Urology-SIU), Francesco Porpiglia

8.30 - 8.50 Lecture: Artificial Intelligence in urology: from big data to radiomics G. Balestra

8.50 - 9.00 - Live cases presentation

9.15 - 13.00 Mixed & Augmented Reality live and broadcasted surgery day 1

From O.R.1  
3D Mixed & Augmented Reality RARP Jens Uwe Stolzenburg  
3D Mixed & Augmented Reality RAPN Alexandre Mottrie

From O.R.2  
3D Mixed & Augmented Reality RAPN Andrea Minervini  
3D Mixed & Augmented Reality RAPN Alberto Breda

From O.R.3  
3D Mixed & Augmented Reality RARP Francesco Porpiglia  
RNU (PRESS technique) Wu Zhenjie - Broadcasted from China (local time 5.30 pm)  
LPN Wang Linhui - Broadcasted from China (local time 5.30 pm)

13.00 - 14.00 Lunch

14:00 - 14:15 Lecture: Telemedicine in post-Covid19 era J. Gomez Rivas

14.15 - 18.00 Mixed & Augmented Reality live and broadcasted surgery day 1

From O.R.1  
14.15 - 15.45 RARP Ashutosh Tewari - Broadcasted from US (local time 8.15 am)  
15.45 - 17.30 RARP Vipul Patel - Broadcasted from US (local time 9.45 am)

From O.R.2  
14.15 - 16.30 Robotic-assisted totally intracorporeal neobladder Peter Wiklund  
16.30 - 18.00 RAPN Ithaar H. Derweesh - Broadcasted from US (local time 7.30 am)

BPH Lecture Cristian Fiori
• January 29th 2021 •

Day 2

8.15 - 8.30 Welcome and morning report on surgeries from day 1
8.30 - 8.50 Lecture: Artificial Intelligence for the Operative Room 4.0 Pietro Piazzolla
8.50 - 9.00 Live cases presentation
9.15 - 13.00 Mixed & Augmented Reality live and broadcasted surgery day 2

From O.R.1
09.00 - 10.15 RAPN Homayoun Zargar - Broadcasted from Australia (local time 5.00 pm)
10.15 - 11.30 RARP REV-I Koon Rha - Broadcasted from Korea (local time 5.15 pm)
11.30 - 13.00 RAPN surgery Bo Yang, Chao Zhang - Broadcasted from China (local time 5.30 pm)

From O.R.2
09.00 - 11.00 3D Mixed & Augmented Reality RARP Prokar. Dasgupta
11.00 - 13.00 3D Mixed & Augmented Reality RAPN Alessandro Antonelli

From O.R.3
09.00 - 11.00 3D Mixed & Augmented Reality RAPN Francesco Porpiglia
10:30 - 11.30 LPN Aly Abdel Karim - Broadcasted from Egypt (local time 10.30 am)
11.00 - 13.00 Robotic Urethral sparing adenomectomy Vito Pansadoro
13.00 - 14.00 Lunch
14.00 - 17.30 Mixed & Augmented Reality live and broadcasted surgery day 2

From O.R.1
3D Mixed & Augmented Reality LRN Evangelos Liatsikos
3D Mixed & Augmented Reality LPN Maria Ribal

From O.R.2
14.00 - 15.15 SP RARP (Semi Live) Jihad H. Kaouk - Broadcasted from US (local time 8.00 am)
15.15 - 16.45 Robotic Partial Nephrectomy Lance Hampton - Broadcasted from US (local time 9.15 am)
16.45 - 18.00 R-RAPN or RPLND James Porter - Broadcasted from US (local time 7.45 am)
SCIENTIFIC SECRETARIAT

Riccardo Autorino
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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

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Cristian Fiori
Diletta Garrou
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Ivano Morra
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Francesco Porpiglia
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GENERAL INFORMATION

MEETING PLANNER

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OFFICIAL LANGUAGE
The official language of the Congress is English.

REGISTRATION FEE
Web Delegates:
Between September 30th, 2020 and December 15th, 2020 ...................................... €. 350,00
After December 15th, 2020 ............................................................................................ €. 420,00

Web Trainee/Residents:
Between September 30th, 2020 and December 15th, 2020 ...................................... €. 100,00
After December 15th, 2020 ............................................................................................ €. 150,00

ITALIAN ECM ACCREDITATION

The 9TH INTERNATIONAL TECHNO-UROLOGY MEETING has been accredited by the Italian Ministry of Health.

The Italian Ministry of Health assigned n. 15 ECM Credits.

The Congress has been accredited for the following specialties:

• Oncology
• Radiotherapy
• Urology
• Pathological anatomy
• Radiodiagnosics

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