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Candiolo Cancer Insitute - IRCCS, *Candiolo, Torino, Italy*
Department of Oncology - University of Turin, *Orbassano, Tutin, Italy*

Chairmen:

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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

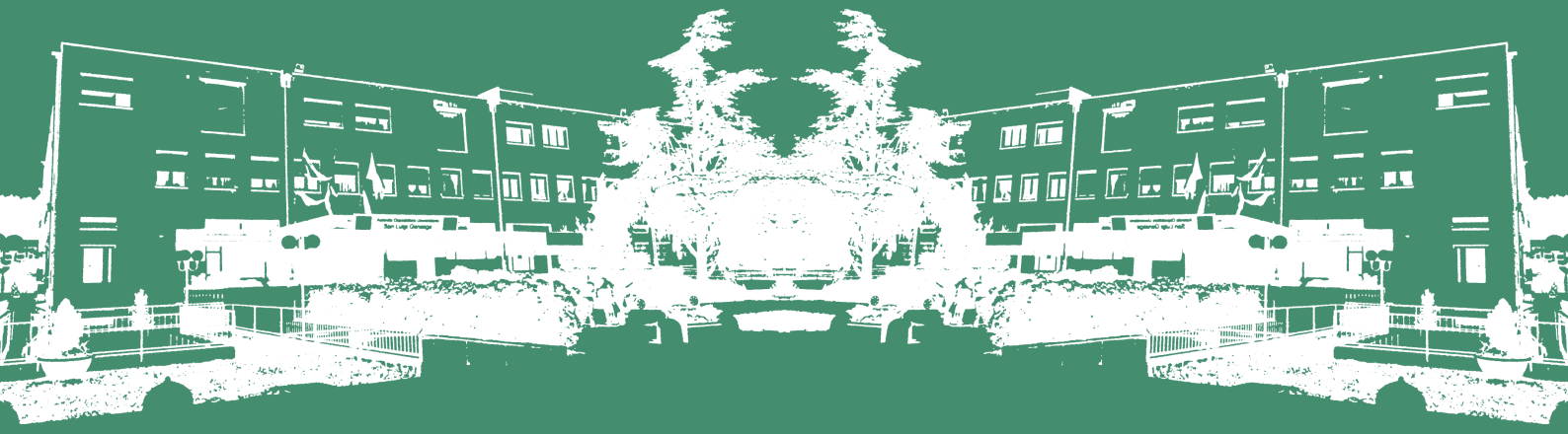
Riccardo Autorino
Division of Urology, VCU Health, Richmond, VA, USA

9TH INTERNATIONAL TECHNO-UROLOGY MEETING (TUM)

THE ADVENT OF ARTIFICIAL INTELLIGENCE

28th - 29th January 2021

VIRTUAL EDITION



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Associazione Italiana di Endourologia

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Young Academic Urologists

INTRODUCTION

Dear Friends,

TUM is once again approaching with its 9th edition, on January 28-29th 2021, despite the recent COVID pandemic, which deeply 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 (HA3D™) from standard imaging, we explored the fields of augmented reality and mixed reality surgery, with the aim to virtually plan and intraoperatively enhance the real anatomy, maximizing the information at the disposal of 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 and 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.

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

Indeed, the congress has evolved into a hybrid format, with some live surgeries performed on site alongside virtual contents that the participants can enjoy from home, during and after the meeting.

Together with the novelties of artificial intelligence guidance, many other technologies will be presented during the meeting.

Moreover, some broadcasted surgeries will also be performed by expert surgeons abroad: for them, the advantages given by the 3D virtual guidance will be available by remote control!

Last but not least, in order to mantain the technological and innovation standards of our congress at the highest levels, we decided to include a part of the faculty in an unattempted experience, an absolute novelty in the field of virtual meetings.

Indeed, through the use of cardboard technology, all participants from home will be given the opportunity to view their intraoperative surgical videos in 3D, as in a surgical console!

We believe that this innovative technological format of the meeting gives the attendees the possibility to overcome the distance barrier imposed by virtual meetings, maximizing the potential to enjoy a conference from home and at the same time offering quality contents in a never experienced before form.

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.

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
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Rome, Italy

INVITED SURGEONS

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and Director of the Kidney Transplant
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Program Director, Urologic Oncology
Fellowship UC San Diego School
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INVITED SURGEONS

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Director of Robotic Surgery
Virginia Commonwealth University
Richmond, VA, USA

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Patras, Greece

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

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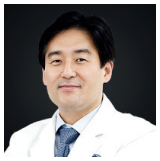
University of Turin
Turin, Italy

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

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

INVITED SURGEONS



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

Ashutosh Tewari
Professor of Urology
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Director Kidney cancer program
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Chairman of International Urological Training Centre of Laparoscopy and Robotic-assisted Surgery,
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Leipzig, Germany

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Shanghai Changzheng Hospital
China

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Chief Department of Urology
San Martino Hospital
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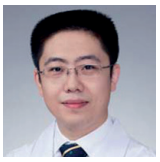

Chao Zhang
Department of Urology
Changhai Hospital
Shanghai, China

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.

• *January 28th 2021* •

LIVE SURGERY EXPERIENCE

Welcome & Day Opening: *Francesco Porpiglia*

Provokers: *Vito Pansadoro, Nazareno Suardi*

	SCREEN #1	SCREEN #2
8.30 - 10.00	***Cognitive 3D guided Laparoscopic Radical Nephrectomy*** *Carlo Terrone*	***Indocyanine-green Augmented Reality Robot-assisted Partial Nephrectomy*** *Andrea Minervini*
10.00 - 11.00	***Augmented Reality Robot-assisted Radical Nephroureterectomy with Proximie technology*** *(Semi-live from UK)* *Prokar Dasgupta*	***Retroperitoneal Robot-assisted Partial Nephrectomy*** *(Broadcasted from China)* *Wang Linhui*
11.00 - 12.30	***Cognitive 3D guided Robot-assisted Partial Nephrectomy*** *(Broadcasted from Spain)* *Alberto Breda*	***Artificial Intelligence automatic Augmented Reality Robot-assisted Radical Prostatectomy*** *Francesco Porpiglia*
12.30 - 13.00	***Lunch Break***	
13.00 - 15-00	***Single Port Robot-assisted Radical Prostatectomy*** *(Broadcasted from US* **Connection time 12.30)* *Vipul Patel*	***Augmented Reality Robot-assisted Partial Nephrectomy*** *Francesco Porpiglia*

CARDBOARD EXPERIENCE

1 - ***Radical Prostatectomy in cadaver with Avatera robot*** *Jens-Uwe Stolzenburg*
2 - ***RARP retzius sparing (Focus on: REV-I)*** *Koon Ho Rha*

3 - ***RARP (Focus on SINGLE PORT)*** *Jihad H. Kaouk*
4 - ***RARP (Focus on: confocal endomicroscopy)*** *Bernardo Rocco*

5 - ***Ureteral substitution (Focus on: buccal mucosa)*** *Vito Pansadoro*
6 - ***RPLND (Focus on: anatomical details of retroperitoneum)*** *James Porter*

7 - ***RAPN (focus on: surgery in transplanted kidney)*** *Lance J. Hampton*
8 - ***RAPN (focus on: nephron sparing for cT3 tumors)*** *Ithaar H.Derweesh*

• *January 29th 2021* •

LIVE SURGERY EXPERIENCE

Welcome & Day Opening: *Francesco Porpiglia*

Provokers: *Vito Pansadoro, Nazareno Suardi*

	SCREEN #1	SCREEN #2
8.30 - 10.00	***Cognitive 3D guided Laparoscopic Partial Nephrectomy*** *Francesco Porpiglia*	***Augmented Reality Robot-assisted Partial Nephrectomy*** *Alessandro Antonelli*
10.00 - 11.00	***Robotic radical Nephro-ureterectomy with PRESS technique*** *(Broadcasted from China)* *Wu Zhenjie*	***Laparoscopic Partial Nephrectomy*** *(Broadcasted from China)* *Bo Yang*
11.00 - 12.30	***Cognitive 3D guided Robot-assisted Partial Nephrectomy*** *(Broadcasted from Belgium)* *Alex Mottrie*	***Artificial Intelligence automatic Augmented Reality Robot-assisted Radical Prostatectomy*** *Niccolò Buffi*
12.30 - 13.00	***Lunch Break***	
13.00 - 15-00	***Robot-assisted Radical Prostatectomy*** *(Broadcasted from US* **Connection time 14.00)* *Ashutosh Tewari*	***Indocyanine-green Augmented Reality-Robot-assisted Partial Nephrectomy*** *Francesco Porpiglia*

CARDBOARD EXPERIENCE

9 - ***RARC (Focus on: ileal neobladder)*** *Peter Wiklund*

10 - ***Robotic surgery for the bladder (Focus on: diverticulectomy and ureteral reimplantation)*** *RiccardoAutorino*

11 - ***Laparoscopic radical nephrectomy (Focus on: tips and tricks in laparoscopy)*** *Evangelos Liatsikos*

12 - ***Laparoscopic partial nephrectomy (Focus on: enucleative technique)*** *Aly Abdel Karim*

13 - ***ICG guided laparoscopic partial nephrectomy (Focus on: clampless technique)*** *Rocco Papalia*

14 - ***Laparoscopic partial nephrectomy (Focus on: 3D vision assisted technology)*** *Maria Ribal*

15 - ***RARP (Focus on: vescico-urethral anastomosis)*** *Homayoun Zargar*

SCIENTIFIC SECRETARIAT

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

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Enrico Checcucci

Marco Cossu

Stefano De Luca

Cristian Fiori

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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
- 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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