Sophisticated imaging in urology

**Location:** Room 14b (ICM, Level 1)

**Chairs:**
- S. Kruck, Tübingen (DE)
- T. Loch, Flensburg (DE)
- J. Walz, Marseille (FR)

**Aims and objectives of this presentation**
New imaging technologies are reshaping the everyday life of urologists by providing new insights into the pathology and new tools for diagnosis and monitoring. This session discusses an abstract about these promising technologies.

**Poster viewing of 20 minutes. Presentations will take place on stage. Standard presentations are 2 minutes in length, followed by 2 minutes for discussion. Extended presentations (*) are 3 minutes in length, followed by 3 minutes for discussion.**

*26* Novel stepwise algorithm using CT and MRI for differential diagnosis of fat-poor angiomyolipoma in small renal masses: Development and external validation

**By:** Tanaka H.¹, Fujii Y.¹, Yoshida S.¹, Yokoyama M.¹, Ishioka J.¹, Matsuoka Y.¹, Numao N.¹, Saiito K.¹, Uehara S.², Yuasa T.², Yamamoto S.², Masuda H.², Yonese J.², Kihara K.¹

**Institutes:** Tokyo Medical and Dental University, Dept. of Urology, Tokyo, Japan, Cancer Institute Hospital, Japanese Foundation For Cancer Research, Dept. of Urology, Tokyo, Japan

*27* Exploring the potential of fluorine-18 fluorodeoxyglucose positron emission tomography (18F-FDG PET) to improve clinical decision making in patients with retroperitoneal fibrosis (RPF)?

**By:** Fernando A., Horsfield C., Pattison J., D'Cruz D., O'Brien T.

**Institutes:** Guy's and St Thomas' NHS Trust, Dept. of Urology, London, United Kingdom

*28* Preliminary results of a new tool to evaluate cavernous body fibrosis following radical prostatectomy: Penile elastography

**By:** Hamidi N.¹, Altinbas N.², Gokce M.¹, Süber E.¹, Yagci C.², Baltaci S.¹, Turkolmez K.³

**Institutes:** Ankara University School of Medicine, Dept. of Urology, Ankara, Turkey, Ankara University School of Medicine, Dept. of Radiology, Ankara, Turkey

*29* Postoperative recovery of skeletal muscle mass is associated with favorable prognosis in metastatic renal cell carcinoma patients who underwent cytoreductive nephrectomy

**By:** Fukushima H., Nakanishi Y., Kataoka M., Tobisu K., Koga F.

**Institutes:** Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital, Dept. of Urology, Tokyo, Japan

*30* Magnetic resonance neurography for residual pelvic pain after synthetic vaginal mesh and/or sling removal

**By:** Abraham A.¹, Chhabra A.², Scott K.³, Zimmern P.¹

**Institutes:** UT Southwestern Medical Center, Dept. of Urology, Dallas, United States of America, UT Southwestern Medical Center, Dept. of Radiology, Dallas, United States of America, UT Southwestern Medical Center, Dept. of PMR, Dallas, United States of America

*31* Generating panoramic images of the urinary bladder for the digital documentation of cystoscopy findings using Endorama®: Development and first clinical experience

**By:** Kriegmair M.¹, Wittenberg T.², Ritter M.¹, Michel M-S.¹, Bolenz C.², Bergen T.²

**Institutes:** University Medical Center Mannheim, Dept. of Urology, Mannheim, Germany, Fraunhofer Institut für Integrierte Schaltungen IIS, Abteilung für Bildverarbeitung und...
Medizintechnik, Erlangen, Germany, University of Ulm, Dept. of Urology, Ulm, Germany

**32 Multispectral imaging allows real time dual-fluorescent guided cystoscopy in a preclinical model**

By: Kriegmair M.¹, Theuring M.², Dimitriadis N.², Grychtol B.², Deliwanis N.², Ritter M.¹

Institutes:¹University Medical Center Mannheim, Dept. of Urology, Mannheim, Germany, ²Fraunhofer-Institut, Projektgruppe fur Automatisierung In Der Medizin und Biotechnologie, Mannheim, Germany

**33 Performance of multi-frame shear-wave elastography in the diagnostic work-up of the scrotum**

By: Marcon J.¹, Trottmann M.¹, D’Anastasi M.², Stief C.G.¹, Reiser M.F.², Buchner A.¹, Clevert D.A.²

Institutes:¹University Hospital of The Ludwig-Maximilians-University of Munich, Dept. of Urology, Munich, Germany, ²University Hospital of The Ludwig-Maximilians-University of Munich, Dept. of Clinical Radiology, Munich, Germany

**34 Potential utility of standardized apparent diffusion coefficient value as a biomarker predicting clinical aggressiveness of bladder cancer with various MRI protocols at various institutions**

By: Yoshida S.¹, Koga F.², Fukushima H.², Nakanishi Y.², Yokoyama M.¹, Ishioka J.¹, Matsuoka Y.¹, Numao N.¹, Saito K.¹, Fujii Y.¹, Kihara K.¹

Institutes:¹Tokyo Medical and Dental University Graduate School, Dept. of Urology, Tokyo, Japan, ²Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital, Dept. of Urology, Tokyo, Japan

**35 Histogram circle Hounsfield unit assessment of stone composition compared to conventional method? A new gold standard**

By: Di Benedetto A.¹, Durner L.¹, Fan S.², Patel A.¹

Institutes:¹Royal London Hospital, Dept. of Urology, London, Italy, ²Royal London Hospital, Dept. of Nephrology, London, Italy

**36 Radiographic manifestations of pubic symphysis osteomyelitis in the prostate cancer survivor: Definitive diagnosis lies in findings on magnetic resonance imaging**

By: Lavien G., Zaid U., Peterson A.

Institutes: Duke University Medical Center, Dept. of Urology, Durham, United States of America

**37 Urethral ultrasonography – initial experience and comparison with retrograde urethrography in urethral strictures evaluation**

By: Santos Lopes S., Furtado A., Silva A., Dores J., Cardoso P., Lourenço M., Ferrito F., Carasquinho Gomes F.

Institutes: Hospital Prof. Doutor Fernando Fonseca, Dept. of Urology, Amadora, Portugal

09:45 - 09:52

Summary and context

T. Loch, Flensburg (DE)