Seeing is believing: Advances in imaging and optics in urothelial cancer

Poster Session 64

Monday 19 March
12:15 - 13:45

Location: Green Area, Room 2 (Level 0)

Chairs: T.M. De Reijke, Amsterdam (NL)
M. Moschini, Luzern (CH)
R. Nair, London (GB)

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.

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Quantitative and qualitative multimodal optical analysis to discriminate urothelial carcinoma grades

By: Pradere B. 1, Poulon F. 2, Doizi S. 3, Cussenot O. 3, Compérat E. 4, Abi Haidar D. 5, Traxer O. 3

1CHU Tours, Dept. of Urology, Tours, France, 2IMNC laboratory, UMR 8165, Paris, France, 3Hopital Tenon, Dept. of Urology, Paris, France, 4Hopital Tenon, Dept. of Pathology, Paris, France, 5IMNC Laboratory, UMR 8165, Paris, France

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4D ultrasound cystoscopy with Fly Through in the evaluation of urinary bladder tumors: Feasibility and outcomes

By: Grande P. 1, Lemma A. 1, Cristini C. 1, Cantisani V. 2, Forte V. 2, Ciccariello M. 2, Drudi F. 2, Catalano C. 2, D’Ambrosio F. 2, Di Pierro G.B. 1

1Sapienza University, Dept. of Obstetrics and Gynaecology Sciences and Urologic Sciences, Rome, Italy, 2Sapienza University, Dept. of Radiological Sciences, Rome, Italy

870

Objective evaluation for the cystoscopic diagnosis of bladder cancer using artificial intelligence

By: Ikeda A. 1, Hoshino Y. 2, Nosato H. 3, Kojima T. 1, Kawai K. 1, Ohishi Y. 3, Sakanashi H. 3, Murakawa M. 3, Yamanouchi N. 2, Nishiyama H. 1

1University of Tsukuba, Faculty of Medicine, Dept. of Urology, Tsukuba, Japan, 2Toho University, Faculty of Science, Dept. of Information Science, Funabashi, Japan, 3National Institute of Advanced Industrial Science and Technology, Artificial Intelligence Research Center, Tsukuba, Japan

* 871

Diagnostic classification of cystoscopic images using deep convolutional neural networks

By: Eminaga O. 1, Semjonow A. 2, Breil B. 3

1University Hospital Cologne/Stanford Medical School, Dept. of Urology, Cologne/Palo Alto, United States of America, 2University Hospital Muenster, Dept. of Urology, Muenster,
872 Identification of red/green/blue values from white-light imaging and narrow-band imaging for the discrimination of bladder cancer features
By: Hah Y. S.¹, Lee K.S.², Koo K.C.², Chung B.H.²
¹Yonsei University College of Medicine, Dept. of Urology, Seoul, Korea, South, ²Yonsei University College of Medicine, Dept. of Urology, Seoul, Korea, South

* 873 Multiparametric cystoscopy for the detection of bladder cancer using wide field multispectral imaging during TUR-B
By: Kriegmair M.C.¹, Theuring M.², Rother J.², Grychtol B.², Deliolanis N.², Michel M.², Ritter M.³, Bolenz C.⁴
¹University Medical Center Mannheim, Dept. of Urology, Mannheim, Germany, ²Fraunhofer Project Group, Dept. of Urology, Mannheim, Germany, ³University Medical Center Mannheim, Dept. of Urology, Mannheim, Germany, ⁴University of Ulm, Dept. of Urology, Ulm, Germany

874 Multimodal fiber optic spectroscopy: A novel technique for urothelial cancer diagnosis?
By: Gacci M.¹, Morselli S.¹, Fantechi R.¹, Baria E.², Anand S.², Cicchi R.², Pavone F.S.², Serni S.¹
¹Careggi University Hospital, Dept. Of Urology, Florence, Italy, ²University of Florence, European Laboratory for Non-Linear Spectroscopy, Dept. Of Physics, Florence, Italy

875 New imaging techniques for bladder cancer diagnostics
By: de Jong M.
Scinvivo, Dept. of Research and Development, Amsterdam, Netherlands, The

876 Identifying carcinoma in situ lesions in the bladder using red/green/blue numerical values from white-light imaging
By: Hah Y.S.¹, Lee K.S.², Koo K.C.², Kim J.H.², Hong S.J.², Chung B.H.²
¹Yonsei University College of Medicine, Dept. of Urology, Seoul, Korea, South, ²Yonsei University College of Medicine, Dept. of Urology, Seoul, Korea, South

877 Confocal laser endomicroscopy: A potentially assisting tool in bladder cancer diagnosis
By: Liem E.I.M.L.¹, Freund J.E.², Savci-Heijink C.D.³, Kamphuis G.M.², Baard J.², De La Rosette J.J.M.C.H.², De Reijke T.M.², De Bruin D.M.⁴
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<tr>
<td>878</td>
<td>Computer-assisted diagnosis during blue light cystoscopy using image analysis methods: Ahead of pathology?</td>
<td>By: Kriegmair M.C., Hartmann A., Todenhöfer T., Ali N., Hipp G., Knoll T., Honeck P., Obreneder R., Stenzl A., Popp J., Bocklitz T.</td>
<td>1University Medical Center Mannheim, Dept. of Urology, Mannheim, Germany, 2University Erlangen-Nuernberg, Dept. of Pathology, Erlangen-Nuernberg, Germany, 3University Hospital Tübingen, Dept. of Urology, Tübingen, Germany, 4Friedrich-Schiller-University, Institute of Physical Chemistry and Abbe Center of Photonics (IPC), Jena, Germany, 5Urological Hospital Planegg, Dept. of Urology, Munich-Planegg, Germany, 6Klinikum Sindelfingen-Böblingen, Dept. of Urology, Sindelfingen, Germany</td>
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<td>879</td>
<td>The utility of pre-operative CT urography in the diagnosis of patients with suspected upper tract urothelial cancer</td>
<td>By: Ellis R., Scriven S., Lloyd J., Ratan H.</td>
<td>1Nottingham City Hospital, Dept. of Urology, Nottingham, United Kingdom, 2Nottingham City Hospital, Dept. of Radiology, Nottingham, United Kingdom</td>
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<td>880</td>
<td>Accuracy of fluorescence and narrow band imaging in the contemporary management of bladder cancer: A systematic review with diagnostic meta-analysis</td>
<td>By: Russo G.I., Cacciamani G., Stenzl A., Artibani W., Gill I., Morgia G.</td>
<td>1University of Catania, Dept. of Urology, Catania, Italy, 2University of Verona, Dept. of Urology, Verona, Italy, 3University of Tübingen, Dept. of Urology, Tübingen, Germany, 4University of Southern California, Dept. of Urology, Los Angeles, United States of America</td>
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