

Basic science in functional urology: Where do we stand?

Poster Session 23

Saturday, 25 March
16:00 - 17:30

Location: Room Berlin, North Hall (Level 1)

Chairs: D. Eberli, Zürich (CH)
S. Poletajew, Warszawa Wesola (PL)

Aims and objectives of this session

Cell-based therapy, genetics, receptors and channels...the story continues.

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.

- 303 **The inhibitory effect of neuropeptide Y Y1 receptor agonist on micturition reflex in rats**
By: Honda M.¹, Yoshimura N.², Kimiura Y.¹, Kawamoto B.¹, Tsounapi P.¹, Hikita K.¹, Shimizu S.³, Shimizu T.³, Saito M.³, Chancellor M.⁴, Takenaka A.¹
Institutes:¹Tottori University Faculty of Medicine, Dept. of Urology, Yonago, Japan, ²University of Pittsburgh, Dept. of Urology, Pittsburgh, United States of America, ³Kochi Medical School, Dept. of Pharmacology, Nankoku, Japan, ⁴William Beaumont Hospital, Dept. of Urology, Royal Oak, United States of America
- 304 **Development of neurogenic detrusor overactivity is prevented by early bladder afferent desensitization in spinal cord injured rats**
By: Oliveira R.¹, Coelho A.¹, Cruz F.², Cruz C.¹
Institutes:¹Faculty of Medicine, University of Porto, Institute For Innovation and Health Research, Dept. of Biomedicine, Translational NeuroUrology Group, Porto, Portugal, ²Hospital São João, Porto, Institute For Innovation and Health Research, Translational NeuroUrology Group, Porto, Portugal
- 305 **Effects of neurotrophins and bladder tissue on neurite outgrowth in cultured mouse pelvic ganglia**
By: Zhu B.¹, Ekman M.¹, Zeng J.², Swärd K.¹, Uvelius B.³
Institutes:¹Lund University, Dept. of Experimental Medical Science, Lund, Sweden, ²The Sixth Affiliated Hospital of Guangzhou Medical University, Dept. of Urology, Qingyuan, China, ³Lund University, Dept. of Urology, Clinical Sciences, Lund, Sweden
- 306 **Corresponding microRNA and mRNA expression profiles in a mouse model of bladder outlet obstruction and human patients' biopsies**
By: Monastyrskaya K.¹, Köck I.², Vasquez E.³, Hashemi Gheinani A.², Baumgartner U.⁴, Sack B.³, Lukianov S.³, Burkhard F.¹, Adam R.³
Institutes:¹University Hospital Bern, Dept. of Urology, Bern, Switzerland, ²Urology Research Laboratory, Dept. of Clinical Research, Bern, Switzerland, ³Urological Diseases Research Center, Boston Children's Hospital, Boston, United States of America, ⁴Institute of Pathology, Dept. of Molecular Pathology, Bern, Switzerland
- 307 **Imaging human skeletal muscle regeneration after stem cell application for sphincter reconstruction using diffusion tensor imaging (DTI) and magnetisation transfer (MT) measurements**
By: Keller D.¹, Eberhardt C.², Rottmar M.², Haralampieva D.¹, Sulser T.¹, Boss A.², Eberli D.¹
Institutes:¹University Hospital Zurich, Dept. of Urology, Zürich, Switzerland, ²University Hospital Zurich, Institute for Diagnostic and Interventional Radiology, Zürich, Switzerland
- 308 **In vivo evaluation of the effectiveness of an innovative technology for the recovery of erectile**

dysfunction after radical prostatectomy

By: Skoufias S.¹, Adamakis I.¹, Levis P.¹, Stergiopoulos N.², Araujo Fraga Da Silva R.², Papaioannou T.G.³, Constantinides C.¹

Institutes:¹Laiko Hospital, Dept. of Urology, Goudi - Athens, Greece, ²Ecole Polytechnique Federale De Lausanne, Institute of Bioengineering, Lausanne, Switzerland, ³Hippokraton Hospital, Biomedical Engineering Unit, First Dept. of Cardiology, Athens, Greece

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Serotonin paraneuronal cells in the urethral epithelium of human and rodents: Expression and function

By: Coelho A.², Oliveira R.², Cavaleiro H.², Cruz C.D.², Cruz F.¹

Institutes:¹Hospital S. Joao, IBMC and I3S, University of Porto, Dept. of Urology, Porto, Portugal, ²Faculty of Medicine, IBMC and I3S, University of Porto, Dept. of Biomedicine, Porto, Portugal

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Expression of programmed death ligand 1 in interstitial cystitis patients is correlated with bladder pain degree and hydrodistension outcome

By: Chen Y., Yu W., Yang Y., Fan Y., Wu S., Jin J.

Institutes:Peking University First Hospital, Dept. of Urology, Beijing, China

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Understanding the role of stem cells in urinary bladder regeneration - a preclinical study in a large animal model

By: Pokrywczynska M.¹, Jundzill A.¹, Buhl M.¹, Balcerczyk D.¹, Rasmus M.¹, Warda K.¹, Buchholz L.¹, Kowalski F.¹, Kwiecinski P.², Drewa T.¹

Institutes:¹Nicolaus Copernicus University in Torun, Ludwik Rydygier Medical College, Dept. of Regenerative Medicine, Bydgoszcz, Poland, ²Vetlab, Brudzew, Poland

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Urinary bladder regenerate by recruiting developmental hedgehog signaling pathway

By: Pokrywczynska M., Jundzill A., Warda K., Rasmus M., Buchholz L., Kowalski F., Drewa T.

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Uncovering links between metabolic syndrome and lower urinary tract symptoms suggestive of BPH at molecular level: First evidence for an involvement of the ghrelin system

By: Wang Y., Gratzke C., Yu Q., Ciotkowska A., Rutz B., Strittmatter F., Stief C., Hennenberg M.

Institutes:LMU Munich, Dept. of Urology, Munich, Germany

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Pathophysiological roles of TRPA1 channel in lipopolysaccharide (LPS)-induced bladder inflammatory nociception and hypersensitivity in mice

By: Kamei J.¹, Aizawa N.¹, Nakagawa T.², Kaneko S.³, Homma Y.⁴, Igawa Y.¹

Institutes:¹The University of Tokyo Graduate School of Medicine, Dept. of Continence Medicine, Tokyo, Japan, ²Kyoto University Hospital, Dept. of Pharmacy, Kyoto, Japan, ³Kyoto University, Graduate School of Pharmaceutical Sciences, Dept. of Molecular Pharmacology, Kyoto, Japan, ⁴The University of Tokyo Graduate School of Medicine, Dept. of Urology, Tokyo, Japan

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The neurotransmitters in the periaqueductal grey matter, involved in bladder function

By: Zare A.², Jahanshahi A.², Rahnama'i M.S.¹, Celine M.², Van Koeveringe G.¹

Institutes:¹Maastricht UMC+, Dept. of Urology, Maastricht, The Netherlands, ²Maastricht University, Dept. of Neuroscience, Maastricht, The Netherlands