Receptors and targets in functional urology

**Location:** Room Berlin, North Hall (Level 1)

**Chairs:** C. Cruz, Porto (PT)
D. Daly, Lancashire (GB)
K. Monastyryskaya, Bern (CH)

**Aims and objectives of this session**
The search for new pharmacological targets continues. Receptors and new mechanisms are being discussed in this session.

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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Estradiol releasing hydrogel as a proangiogenic substitute for fat flaps used in urogenital reconstruction

*By:* Eke G. ², Mangir N. ¹, Hasirci N. ³, Chapple C. ⁴, Hasirci V. ⁵, Macneil S. ¹

*Institutes:* Kroto Research Institute, Dept. of Materials Science and Engineering, Sheffield, United Kingdom, ²Middle East Technical University (METU), Dept. of Biotechnology & BIOMATEN, METU Center of Excellence in Biomaterials and Tissue Engineering, Ankara, Turkey, ³METU, Dept. of Biotechnology, Chemistry & BIOMATEN, METU Center of Excellence in Biomaterials and Tissue Engineering, Ankara, Turkey, ⁴Royal Hallamshire Hospital, Dept. of Urology, Sheffield, United Kingdom, ⁵METU, Dept. of Biotechnology, Biological Sciences & BIOMATEN, METU Center of Excellence in Biomaterials and Tissue Engineering, Ankara, Turkey

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9-Phenanthrol modifies rat bladder function independent of TRPM4

*By:* Deruyver Y. ¹, Uvin P. ¹, Pinto S. ², Van Ranst N. ², Franken J. ¹, Gevaert T. ¹, Everaerts W. ¹, Voets T. ², De Ridder D. ¹, Vennekens R. ²

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**195**

Supraspinal effects of dopamine uptake inhibitor on the micturition reflex in rats

*By:* Honda M. ¹, Yoshimura N. ², Kimura Y. ³, Kawamoto B. ¹, Tsounapi P. ¹, Hikita K. ¹, Shimizu S. ³, Shimizu T. ³, Saito M. ³, Chancellor M. ³, Takenaka A. ¹

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Role of supraspinal and spinal group III metabotropic glutamate receptor in micturition reflex in urethane-anesthetized rats

*By:* Honda M. ¹, Kimura Y. ³, Kawamoto B. ¹, Tsounapi P. ¹, Hikita K. ¹, Saito M. ³, Takenaka A. ¹

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**197**

KPR-2579, a novel TRPM8 antagonist, inhibits hyperactivity of the primary bladder afferent nerves induced by acetic acid in rats

*By:* Aizawa N. ¹, Fujimori Y. ², Kobayashi J. ², Nakanishi O. ², Hirasawa H. ², Homma Y. ³, Igawa Y. ¹

*Institutes:* The University of Tokyo Graduate School of Medicine, Dept. of Continence Medicine, Tokyo, Japan, ²Kissei Pharmaceutical Co., Ltd., Discovery Research R&D, Azumino, Japan, ³The University of Tokyo Graduate School of Medicine, Dept. of Urology, Tokyo, Japan
198 Does TRP channel play a role in cooling-induced contraction of human detrusor smooth muscle?  
By: Kajioka S., Maki T., Lee K., Takahashi R., Ito M.  
Institutes: Kyushu University, Dept. of Urology, Fukuoka, Japan

199 Novel three-mRNA and three-miRNA signatures accurately identify urodynamically-defined bladder phenotypes and correspond to functional improvement after deobstruction  
By: Moltzahn F.¹, Burkhard F.¹, Hashemi Gheinani A.², Koeck I.², Monastyrskaya K.²  
Institutes: ¹University Hospital Bern, Dept. of Urology, Bern, Switzerland, ²Urology Research Laboratory, Dept. of Clinical Research, Bern, Switzerland

200 Withdrawn

201 The water avoidance stress induces bladder pain due to a prolonged adrenergic (alpha1A) stimulation of the bladder  
By: Matos R.¹, Serrão P.², Rodrigues L.³, Birder L.A.⁴, Cruz F.⁵, Charrua A.⁶  
Institutes: ¹Faculty of Medicine of University of Porto, Dept. of Biomedical Science, Porto, Portugal, ²University of Porto, Dept. of Pharmacology & Therapeutics and MedinUP, Porto, Portugal, ³University of Southern California, Dept. of Urology and Obstetrics and Gynecology, Los Angeles, United States of America, ⁴University of Pittsburgh School of Medicine, Dept. of Medicine and Pharmacology - Chemical Biology, Pittsburgh, United States of America, ⁵University of Porto and CHSJ, Dept. of Biomedical Science and I3S-IBMC, Porto, Portugal, ⁶University of Porto, Dept. of Biomedical Science and I3S-IBMC, Porto, Portugal

202 Validation of TNF-α as the top upstream regulator of bladder remodelling during outlet obstruction-induced lower urinary tract dysfunction  
By: Koeck I.¹, Hashemi Gheinani A.¹, Burkhard F.², Monastyrskaya K.²  
Institutes: ¹Urology Research Laboratory, Dept. of Clinical Research, Bern, Switzerland, ²University Hospital Bern, Dept. of Urology, Bern, Switzerland

203 Morphological and functional restoration comparison between a novel bilayer chitosan and bladder acellular matrix graft as scaffolds in a rat bladder augmentation model  
By: Xiao D.¹, Wang Q.², Zhang M.¹, Zhou Z.¹, Lu M.¹  
Institutes: ¹Renji Hospital, Dept. of Urology and Andrology, Shanghai, China, ²Shanghai 9th People's Hospital, Dept. of Urology, Shanghai, China

204 Effects of litoxetine on acetic acid-induced detrusor overactivity and striated anal sphincter functions in rabbits: Comparison with duloxetine  
By: Pérez-Martínez E.², Lluel P.¹, Palea S.³, Vela-Navarrete R.²  
Institutes: ¹Urosphere, Dept of Pharmacology, Toulouse, France, ²Universidad Autónoma De Madrid, Dept. of Urology, Madrid, Spain, ³Palea Pharma & Biotech Consulting, , Toulouse, France

205 The stem cell growth factor receptor KIT is not expressed on interstitial cells in bladder  
By: Gevaert T.¹, Vansstreels E.², Daelemans D.², Everaerts W.¹, Van Der Aa F.¹, Pintelon I.³, Timmermans J-P.³, Roskams T.³, Steiner C.³, Neuhaus J.³, De Ridder D.¹  
Institutes: ¹UZ Leuven, Dept. of Urology, Leuven, Belgium, ²KU Leuven, Rega Institute For Medical Research, Leuven, Belgium, ³University of Antwerp, Dept. of Veterinary Sciences, Antwerp, Belgium, ⁴KU Leuven, Dept. of Pathology, Leuven, Belgium, ⁵University of Leipzig, Klinik Und Poliklinik Für Urologie, Leipzig, Germany