Receptors and targets in functional urology

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

**Chairs:**
- C. Cruz, Porto (PT)
- D. Daly, Lancashire (GB)
- K. Monastyrskaya, 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.

---

**193**
**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, ¹Middle East Technical University (METU), Dept. of Biotechnology & BIOMATEN, METU Center of Excellence In Biomaterials and Tissue Engineering, Ankara, Turkey, ²METU, Dept. of Biotechnology, Chemistry & BIOMATEN, METU Center of Excellence In Biomaterials and Tissue Engineering, Ankara, Turkey, ³Royal Hallamshire Hospital, Dept. of Urology, Sheffield, United Kingdom, ⁴METU, Dept. of Biotechnology, Biological Sciences & BIOMATEN, METU Center of Excellence In Biomaterials and Tissue Engineering, Ankara, Turkey

---

**194**
**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

*Institutes:* KU Leuven, Laboratory of Experimental Urology, Leuven, Belgium, ¹KU Leuven, Laboratory of Ion Channel Research, Leuven, Belgium

---

**195**
**Supraspinal effects of dopamine uptake inhibitor on the micturition reflex in rats**

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

*Institutes:* Tottori University Faculty of Medicine, Dept. of Urology, Yonago, Japan, ¹University of Pittsburgh, Dept. of Urology, Pittsburgh, United States of America, ²Kochi Medical School, Dept. of Pharmacology, Nankoku, Japan, ³William Beaumont Hospital, Dept. of Urology, Royal Oak, United States of America

---

**196**
**Role of supraspinal and spinal group III metabotropic glutamate receptor in micturition reflex in urethane-anesthetized rats**

*By:* Honda M.¹, Kimura Y.¹, Kawamoto B.¹, Tsounapi P.¹, Hikita K.¹, Saito M.², Takenaka A.¹

*Institutes:* Tottori University Faculty of Medicine, Dept. of Urology, Yonago, Japan, ¹Kochi Medical School, Dept. of Pharmacology, Nankoku, Japan

---

**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, ¹Kissei Pharmaceutical Co., Ltd., Discovery Research R&D, Azumino, Japan, ²The University of Tokyo Graduate School of Medicine, Dept. of Urology, Tokyo, Japan

---
**Poster Session 15**

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 F.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, Vanstreels E.2, Daelemans D.3, Everaerts W.1, Van Der Aa F.1, Pintelon I.3, Timmermans J-P.3, Roskams T.6, Steiner C.5, Neuhaus J.5, 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, 4University of Leipzig, Klinik Und Poliklinik Für Urologie, Leipzig, Germany