

Receptors and targets in functional urology

Poster Session 15

Saturday, 25 March
14:15 - 15:45

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:¹Kroto 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
- 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:¹KU Leuven, Laboratory of Experimental Urology, Leuven, Belgium, ²KU 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.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
- 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:¹Tottori University Faculty of Medicine, Dept. of Urology, Yonago, Japan, ²Kochi 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:¹The 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**
 By:
 Institutes:
- 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, Lluell 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.², Everaerts W.¹, Van Der Aa F.¹, Pintelon I.³, Timmermans J-P.³, Roskams T.⁴, 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, ⁴KU Leuven, Dept. of Pathology, Leuven, Belgium, ⁵University of Leipzig, Klinik Und Poliklinik Für Urologie, Leipzig, Germany