

How do LUTS function and grow?

Poster Session 08

Friday, 24 March
12:30 - 14:00

Location: Room Berlin, North Hall (Level 1)

Chairs: C. Gratzke, Munich (DE)
R. Hamid, London (GB)

Aims and objectives of this session

This session discusses the basic insights into LUT functioning.

Poster viewing of 20 minutes. Presentations will take place on stage. Standard presentations are 2 minutes in length, followed by 2 minutes for discussion.

- 103 **Depletion of peripheral serotonin synthesis induces benign prostatic growth in mice: More evidence for the new neuroendocrine theory in BPH etiology**
By: Mota P.M.¹, Carvalho-Dias E.¹, Miranda A.², Martinho O.², Nogueira-Silva C.³, Alenina N.⁴, Bader M.⁴, Autorino R.¹, Lima E.¹, Correia-Pinto J.⁵
Institutes:¹Surgical Sciences Research Domain, Life and Health Sciences Research Institute, ICVS/3B's - PT Gover, Dept. of CUF Urology and Service of Urology - Hospital of Braga, Braga, Portugal, ²Life and Health Sciences Research Institute, ICVS/3B's - PT Government Associate Laboratory, The Cli, Surgical Sciences Research Domain, Braga, Portugal, ³Surgical Sciences Research Domain, Life and Health Sciences Research Institute, ICVS/3B's - PT Gover, Dept. of Obstetrics and Gynecology, Braga, Portugal, ⁴Max Delbrück Center For Molecular Medicine, Robert-Rössle-Str. 10, Berlin 13125, Germany, Berlin Institute of Health, Berlin, Germany, ⁵Surgical Sciences Research Domain, Life and Health Sciences Research Institute, ICVS/3B's - PT Gover, Dept. of Pediatric Surgery - Hospital of Braga, Braga, Portugal
- 105 **Impairment of autophagy is associated with obesity and inflammation in patients with benign prostatic hyperplasia and lower urinary tract symptoms**
By: De Nunzio C.¹, Giglio S.², Cirombella R.², Mallel G.², Nacchia A.¹, Lombardo R.¹, Presicce F.¹, Tubaro A.¹, Vecchione A.²
Institutes:¹Sant' Andrea Hospital - Sapienza University, Dept. of Urology, Rome, Italy, ²Sant' Andrea Hospital - Sapienza University, Dept. of Molecular Pathology, Rome, Italy
- 106 **Myogenic tone is significantly increased in benign prostatic hyperplasia and can be attenuated by sildenafil and tamsulosin, with outcome associated to patient age and prostate volume**
By: Lee S.¹, Chakrabarty B.², Papargiris M.¹, Ryan A.³, Frydenberg M.⁴, Lawrentschuk N.⁵, Middendorff R.⁶, Risbridger G.¹, Ellem S.¹, Exintaris B.⁷
Institutes:¹Monash University, Dept. of Anatomy and Developmental Biology, Clayton, Australia, ²Monash University, Drug Discovery Biology, Parkville, Australia, ³TissuePath, Dept. of Pathology, Melbourne, Australia, ⁴Monash University, Dept. of Surgery, Melbourne, Australia, ⁵Melbourne University, Dept. of Surgery, Melbourne, Australia, ⁶Justus-Liebig-University, Institute of Anatomy and Cell Biology, Giessen, Germany, ⁷Monash University, Dept. of Drug Discovery Biology, Parkville, Australia
- 107 **Detection of Rac activity and inhibition of smooth muscle contraction by EHT1864 in the human trigone: Expanding the role of Rac GTPase in the lower urinary tract outflow region**
By: Wang Y., Gratzke C., Rutz B., Yu Q., Strittmatter F., Herlemann A., Rutz B., Stief C., Hennenberg M.
Institutes:LMU Munich, Dept. of Urology, Munich, Germany
- 108 **Inhibition of prostate smooth muscle contraction by the LIM kinase inhibitor, SR-7826: A new anticontractile strategy and implications for a role of LIM kinases in the control of prostate**

- smooth muscle tone**
By: Yu Q., Gratzke C., Wang Y., Rutz B., Herlemann A., Strittmatter F., Stief C., Hennenberg M.
Institutes:LMU-Klinikum der Universität München, Dept. of Urology, Munich, Germany
- 109 **The anticontractile inhibitor, secinH3 inhibits ARF6, but not Rac or RhoA GTPase activities in the human prostate: A new role for ARF6 in smooth muscle contraction?**
By: Hennenberg M., Wang Y., Herlemann A., Yu Q., Strittmatter F., Rutz B., Stief C., Gratzke C.
Institutes:LMU Munich, Dept. of Urology, Munich, Germany
- 110 **The oxidants/antioxidants balance in patients with benign prostatic hyperplasia before and after the treatment with dutasteride**
By: Ene C.V.¹, Nicolae I.², Ene C.D.³, Geavlete B.¹, Geavlete P.¹, Georgescu S.⁴
Institutes:¹St John Hospital Bucharest, Dept. of Urology, Bucharest, Romania, ²Clinical Hospital of Tropical and Infectious Diseases "Victor Babes", Dept. of Research, Bucharest, Romania, ³Clinical Hospital of Nephrology "Carol Davila", Dept. of Nephrology, Bucharest, Romania, ⁴Clinical Hospital of Tropical and Infectious Diseases "Victor Babes", Dept. of Dermato-Venerology, Bucharest, Romania
- 111 **Restraint stress induces nocturia in mice**
By: Ihara T.¹, Mitsui T.¹, Nakamura Y.², Imai Y.¹, Kira S.¹, Nakagomi H.¹, Sawada N.¹, Nakao A.², Takeda M.¹
Institutes:¹University of Yamanashi, Dept. of Urology, Yamanashi, Japan, ²University of Yamanashi, Dept. of Immunology, Yamanashi, Japan
- 112 **The vitamin D analogue BXL-628 improves contraction development ex vivo in bladders of aged mice**
By: Hohnen R.¹, Rademakers K.², Den Hartog G.³, Meriaux C.¹, Van Koeveringe G.²
Institutes:¹Maastricht University, Dept. of Neuroscience, Maastricht, The Netherlands, ²Maastricht University Medical Center, Dept. of Urology, Maastricht, The Netherlands, ³Maastricht University, Dept. of Pharmacology and Toxicology, Maastricht, The Netherlands
- 113 **Effects of litoxetine on urethral pressure and detrusor overactivity in anesthetized female rats**
By: Méen M.¹, Guérard M.¹, Palea S.³, Gamé X.², Lluel P.¹
Institutes:¹Urosphere, Dept. of Pharmacology, Toulouse, France, ²CHU Rangueil, Dept. of Urology, Toulouse, France, ³Palea Pharma & Biotech Consulting, , Toulouse, France
- 114 **Effects of the receptor antagonist picotamide on endothelin-1-, -2- and -3-induced contractions in human prostate smooth muscle**
By: Hennenberg M., Tamalunas A., Strittmatter F., Stief C., Gratzke C.
Institutes:LMU Munich, Dept. of Urology, Munich, Germany
- 115 **Two microRNA clusters may determine the biological functions of microRNA-regulated pathways in underactive bladder**
By: 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
- 116 **Detrusor bioengineering using compressed collagen, adipose-derived stem cells and smooth muscle cells**
By: Smolar J.¹, Horst M.², Eberli D.¹
Institutes:¹University Hospital Zurich, Dept. of Urology, Zürich, Switzerland, ²University Children's Hospital, Dept. of Pediatric Urology, Zürich, Switzerland