How do LUTS function and grow?

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.

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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, Auttorino R.1, Lima E.1, Correia-Pinto J.5

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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

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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

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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.

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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 scientific programme
**Poster Session 08**

**smooth muscle tone**  
Institutes: LMU-Klinikum der Universität München, Dept. of Urology, Munich, Germany

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

**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  
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**Restraint stress induces nocturia in mice**  
By: Ihara T., Mitsui T., Nakamura Y., Imai Y., Kira S., Nakagomi H., Sawada N., Nakao A., Takeda M.  
Institutes: University of Yamanashi, Dept. of Urology, Yamanashi, Japan, University of Yamanashi, Dept. of Immunology, Yamanashi, Japan

**The vitamin D analogue BXL-628 improves contraction development ex vivo in bladders of aged mice**  
By: Hohnen R., Rademakers K., Den Hartog G., Meriaux C., Van Koeveringe G.  
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**Effects of litoxetine on urethral pressure and detrusor overactivity in anesthetized female rats**  
By: Méen M., Guérard M., Palea S., Gamé X., Lluel P.  
Institutes: Urosphere, Dept. of Pharmacology, Toulouse, France, CHU Rangueil, Dept. of Urology, Toulouse, France, Palea Pharma & Biotech Consulting, Toulouse, France

**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

**Two microRNA clusters may determine the biological functions of microRNA-regulated pathways in underactive bladder**  
By: Hashemi Gheinani A., Burkhard F., Monastyrskaya K.  
Institutes: Urology Research Laboratory, Dept. of Clinical Research, Bern, Switzerland, University Hospital Bern, Dept. of Urology, Bern, Switzerland

**Detrusor bioengineering using compressed collagen, adipose-derived stem cells and smooth muscle cells**  
By: Smolar J., Horst M., Eberli D.  
Institutes: University Hospital Zurich, Dept. of Urology, Zürich, Switzerland, University Children’s Hospital, Dept. of Pediatric Urology, Zürich, Switzerland