

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
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- 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
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- 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
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- 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.

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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

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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

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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 Koevinge G.²

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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

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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.

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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

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116

Detrusor bioengineering using compressed collagen, adipose-derived stem cells and smooth muscle cells

By: Smolar J.¹, Horst M.², Eberli D.¹

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