Preclinical innovation: Latest news in future treatment of erectile dysfunction

**Location:** Room 14b (ICM, Level 1)

**Chairs:**
- F. Fusco, Naples (IT)
- A. Muneer, London (GB)

**Aims and objectives of this presentation**
The session will include animal studies with stem cell based interventions for erectile dysfunction. Furthermore, latest news in regeneration of pelvic nerves and the role of endothelial and smooth muscle in erectile dysfunction will be presented. The audience will walk away with an idea of what may lie ahead in the world of andrology.

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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**Combination therapy using human adipose-derived stem cells on the cavernous nerve and low-energy shockwaves on the corpus cavernosum in a rat model of postprostatectomy erectile dysfunction**

*By:* Kwon O., Choi J.B., Park Y.H., Cho H.J., Ha U-S., Hong S.H., Kim S.W., Lee J.Y.

*Institutes:* Seoul St. Mary's Hospital, Dept. of Urology, Seoul, South Korea

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**Tissue sealing sheet attenuates erectile dysfunction after nerve-sparing surgery in a rat model**


*Institutes:* Tohoku University Graduate School of Medicine, Dept. of Urology, Sendai, Japan

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**Damage and repair processes of cavernous nerve after crushing injury in rat model - evidence of transmission electron microscopy in correlation with serial intracavernous pressure and molecular histological change**

*By:* Wu Y-N., Liao C-H., Shang H-S., Chiang H-S.

*Institutes:* 1 Fu Jen Catholic University, Graduate Institute of Basic Medicine, New Taipei City, Taiwan, 2 Fu Jen Catholic University, School of Medicine, New Taipei City, Taiwan, 3 Tri-Service General Hospital, Dept. of Clinical Pathology, Taipei City, Taiwan

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**Ganglion cell size after bilateral cavernous nerve resection and reconstruction**

*By:* May F., Buchner A., Brinkmann K., Weidner N., Stief C., Matiasek K.

*Institutes:* 1 Private Practice, Dept. of Urology, Dachau, Germany, 2 Ludwig-Maximilians-University, Dept. of Urology, Munich, Germany, 3 Ludwig-Maximilians-University, Dept. of Clinical and Comparative Neuropathology and Clinical Veterinary Medicine, Munich, Germany, 4 Ruprecht-Karls-University, Dept. of Spinal Cord Injury Centre, Heidelberg, Germany

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**Osteopontin is an important player in endogenous neuroregeneration after cavernous nerve injury**

*By:* Wayne E., Matsui H., Hannan J., Fabio C., Liu X., Van Der Aa F., Bivalacqua T., Albersen M.

*Institutes:* 1 UZ Leuven, Dept. of Urology, Leuven, Belgium, 2 Johns Hopkins, Dept. of Urology, Baltimore, United States of America, 3 East Carolina University, Dept. of Physiology, Greenville, United States of America, 4 San Raffaele, Dept. of Urology, Milan, Italy

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**Improvement of erectile function by suppression of corporal fibrosis with LIM-kinase2 inhibitors in a rat model of cavernous nerve injury**

**Institutes:** Seoul National University Hospital, Dept. of Urology, Seoul, South Korea, 2SMG-SNU Boramae Medical Center, Dept. of Urology, Seoul, South Korea, 2Gwangmyeong Sungae Hospital, Dept. of Urology, Gwangmyeong, South Korea

**SDF-1 treatment facilitates axonal regeneration from the major pelvic ganglion in a dose-dependent fashion**

By: Sopko N., Matsui H., Kates M., Xiaopu L., Bivalacqua T.

**Institutes:** The Johns Hopkins School of Medicine, Dept. of Urology, Baltimore, United States of America

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**Institutes:** Ajou University School of Medicine, Dept. of Urology, Suwon-Si, South Korea, 2Samsung Medical Center, Sungkyunkwan University School of Medicine, Dept. of Urology, Seoul, South Korea, 3Seoul National University College of Medicine, Dept. of Physiology, Seoul, South Korea

**Effect of the BKCa channel opener LDD175 on the erectile function of in vivo diabetic rat model**

By: Lee S.W. 1, Sung H.H. 1, Chae M.R. 1, Kang S.J. 1, Han D.H. 1, Park J.K. 2, Lee S.W. 1

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**Institutes:** Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Dept. of Urology, Wuhan, China, 2Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Dept. of Geriatrics, Wuhan, China

**Erectile dysfunction correlates with hyperhomocysteinemia: International Index of Erectile Function (IIEF) and penile Doppler ultrasound evaluation**


**Institutes:** Sapienza Rome University Policlinico Umberto I, Dept. of Urology, Rome, Italy

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**Institutes:** Medical Faculty, University ss Cyril and Methodius, Dept. of Urology, Skopje, Macedonia, 2Medical Faculty, University ss Cyril and Methodius, University Clinic of Nephrology, Skopje, Macedonia, 3Medical Faculty, University ss Cyril and Methodius, University Clinic of Clinical Biochemistry, Skopje, Macedonia, 4Medical Faculty, University ss Cyril and Methodius, Dept. of Pathology, Skopje, Macedonia

**Simvastatin treatment improves endothelial function in the corpus cavernosum in uremic apolipoprotein E deficient mice**

By: Ivanovski O. 1, Nikolov I. 2, Davceva O. 3, Petrushevska G. 4

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**Institutes:** Astellas Pharma Inc., Evolving Medical Solutions, Tsukuba-Shi, Japan

**A novel therapeutic strategy for patients with premature ejaculation: Possibility of electrical stimulation of dorsal penile nerves**

By: Kimura Y., Saitoh C.