Growth factors and receptors in urothelial tumours

**Poster Session 63**

**Location:** Room Amsterdam, North Hall (Level 1)

**Chairs:** T.W. Todenhöfer, Tübingen (DE)  
E. Zwarthoff, Rotterdam (NL)

**Aims and objectives of this session**
Overexpression of peptide growth factors and their receptors have been reported in urothelium cancer. In addition, mutations in growth factor receptors occur and are associated with outcome of the disease. The session will focus on regulation of intracellular signalling, modification of gene expression and possibilities to improve specific targeting in urothelial tumors.

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.

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841  
**Panobinostat and ixazomib inhibit bladder cancer growth synergistically by increasing histone acetylation and inducing endoplasmic reticulum stress**  
By: Sato A., Isono M., Asano T., Okubo K., Asano T.  
**Institutes:** National Defense Medical College, Dept. of Urology, Tokorozawa, Japan

*830  
**Role of the crosstalk between tumor cells, vascular endothelium and the coagulation cascade for the invasion of urothelial bladder carcinoma**  
By: John A.1, Schneider S.2, Gorzelanny C.3, Bolenz C.1  
**Institutes:** 1University Hospital Ulm, Dept. of Urology, Ulm, Germany, 2University Hospital Hamburg, Dept. of Dermatology, Hamburg, Germany, 3Experimental Dermatology, Dept. of Dermatology, Mannheim, Germany

831  
**Highly sensitive and specific novel biomarkers for the diagnosis of transitional bladder carcinoma**  
By: Ku J.Y.1, Lee C.H.1, Lee K.1, Kim K.H.1, Baek S.R.1, Park J.H.1, Lee J.Z.1, Park H.J.1, Han S.H.1, Jeong I.Y.1, Kwon M.J.1, Ha H.K.2, Jean P.T.2  
**Institutes:** Pusan National University Hospital, Dept. of Urology, Busan, South Korea, 2National University of Singapore, Dept. of Urology, Singapore, Singapore

833  
**Lopinavir synergizes with ritonavir to induce bladder cancer apoptosis by causing histone acetylation and endoplasmic reticulum stress**  
By: Sato A., Okubo K., Asano T., Isono M., Asano T.  
**Institutes:** National Defense Medical College, Dept. of Urology, Tokorozawa, Japan

834  
**Overexpression of PTP4A3 is associated with metastasis and unfavorable prognosis in urothelial carcinoma**  
By: Yeh H-C.1, Wu W-J.1, Li C-C.1, Huang C-N.2, Ke H-L.2, Li W-M.2, Lee H-Y.1, Li C-F.3  
**Institutes:** Kaohsiung Municipal Ta-Tung Hospital, Kaohsiung Medical University, Dept. of Urology, Kaohsiung, Taiwan, 2Kaohsiung Medical University Hospital, Kaohsiung Medical University, Dept. of Urology, Kaohsiung, Taiwan, 3Chi Mei Medical Center, Dept. of Pathology, Tainan, Taiwan

835  
**Kaempferol modulates DNA methylation and up-regulates the expression of DAXX in bladder cancer**  
By: Qiu W., Lin J., Zhu Y., Zhang J., Tian Y.  
**Institutes:** Beijing Friendship Hospital, Capital Medical University, Dept. of Urology, Beijing, China
836 The activity of intravesical hyaluronic acid and chondroitin sulfate administration on urothelial gene expression. Preliminary results on the epidermal growth factor receptor and fibronectin gene expression evaluated in bladder washings of patients affected by non muscle-invasive bladder cancer
By: Serretta V.1, Di Maida F.1, Scalici Gesolfo C.1, Cangemi A.2, Perez A.2, Russo A.2, Simonato A.1
Institutes: University of Palermo, Dept. of Urology, Palermo, Italy, 1University of Palermo, Dept. of Medical Oncology, Palermo, Italy

837 Frequency of subtypes in high grade urothelial carcinoma of the urinary bladder
By: Scavuzzo A.1, Jimenez Rios M.A.1, Silva Morera C.2, Pena L.2, Moncada G.2, Mendoza J.3, Cantu De Leon D.3, Perez Montiel D.2
Institutes: Instituto Nacional De Cancerologia, Dept. of Urology, Mexico City, Mexico, 2Instituto Nacional De Cancerologia, Dept. of Pathology, Mexico City, Mexico, 3Instituto Nacional De Cancerologia, Dept. of Clinical Research, Mexico City, Mexico

838 Targeting ERBB2 mutations in urothelial carcinoma
By: Audenet F.1, Isharwal S.1, Arcila M.2, Funt S.3, Rosenberg J.3, Bajorin D.3, Bochner B.3, Berger M.3, Al-Ahmadie H.3, Solit D.3, Iyer G.3
Institutes: Memorial Sloan Kettering Cancer Center, Dept. of Urology, New York, United States of America, 1Memorial Sloan Kettering Cancer Center, Dept. of Pathology, New York, United States of America, 2Memorial Sloan Kettering Cancer Center, Dept. of Medical Oncology, New York, United States of America

839 Long noncoding RNA H19 regulates survivin expression in bladder cancer as sponge of miR-138-5p
By: Yang R1, Qu S.2, Liang H.2, Chen X.2, Zhang C.2, Guo H.1
Institutes: The Affiliated Drum Tower Hospital Of Nanjing University, School Of Medicine, Dept. of Urology, Nanjing, China, 1Nanjing University, Dept. of Biological Science, Nanjing, China

840 M2 muscarinic receptors inhibit cell proliferation and migration in urothelial bladder cancer cells
Institutes: Sapienza University of Rome, Dept. of Medico-Surgical Sciences and Biotechnologies, Urology Unit, Latina, Italy

13:28 - 13:38 Alterations in growth factor receptors in bladder cancer
E. Zwarthoff, Rotterdam (NL)