

## Growth factors and receptors in urothelial tumours

Poster Session 63

Monday, 27 March  
12:15 - 13:45

**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.

- 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.](#)<sup>1</sup>, Schneider S.<sup>2</sup>, Gorzelanny C.<sup>3</sup>, Bolenz C.<sup>1</sup>  
**Institutes:**<sup>1</sup>University Hospital Ulm, Dept. of Urology, Ulm, Germany, <sup>2</sup>University Hospital Hamburg, Dept. of Dermatology, Hamburg, Germany, <sup>3</sup>Experimental Dermatology, Dept. of Dermatology, Mannheim, Germany
- 831 **Highly sensitive and specific novel biomarkers for the diagnosis of transitional bladder carcinoma**  
By: Ku J.Y.<sup>1</sup>, Lee C.H.<sup>1</sup>, Lee K.<sup>1</sup>, Kim K.H.<sup>1</sup>, Baek S.R.<sup>1</sup>, Park J.H.<sup>1</sup>, Lee J.Z.<sup>1</sup>, Park H.J.<sup>1</sup>, Han S.H.<sup>1</sup>, Jeong I.Y.<sup>1</sup>, Kwon M.J.<sup>1</sup>, [Ha H.K.](#)<sup>1</sup>, Jean P.T.<sup>2</sup>  
**Institutes:**<sup>1</sup>Pusan National University Hospital, Dept. of Urology, Busan, South Korea, <sup>2</sup>National 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.](#)<sup>1</sup>, Wu W-J.<sup>1</sup>, Li C-C.<sup>1</sup>, Huang C-N.<sup>2</sup>, Ke H-L.<sup>2</sup>, Li W-M.<sup>2</sup>, Lee H-Y.<sup>1</sup>, Li C-F.<sup>3</sup>  
**Institutes:**<sup>1</sup>Kaohsiung Municipal Ta-Tung Hospital, Kaohsiung Medical University, Dept. of Urology, Kaohsiung, Taiwan, <sup>2</sup>Kaohsiung Medical University Hospital, Kaohsiung Medical University, Dept. of Urology, Kaohsiung, Taiwan, <sup>3</sup>Chi 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.<sup>1</sup>, Di Maida F.<sup>1</sup>, Scalici Gesolfo C.<sup>1</sup>, Cangemi A.<sup>2</sup>, Perez A.<sup>2</sup>, Russo A.<sup>2</sup>, Simonato A.<sup>1</sup>  
**Institutes:**<sup>1</sup>University of Palermo, Dept. of Urology, Palermo, Italy, <sup>2</sup>University of Palermo, Dept. of Medical Oncology, Palermo, Italy
- 837 **Frequency of subtypes in high grade urothelial carcinoma of the urinary bladder**  
**By:** Scavuzzo A.<sup>1</sup>, Jimenez Rios M.A.<sup>1</sup>, Silva Morera C.<sup>2</sup>, Pena L.<sup>2</sup>, Moncada G.<sup>2</sup>, Mendoza J.<sup>3</sup>, Cantu De Leon D.<sup>3</sup>, Perez Montiel D.<sup>2</sup>  
**Institutes:**<sup>1</sup>Instituto Nacional De Cancerologia, Dept. of Urology, Mexico City, Mexico, <sup>2</sup>Instituto Nacional De Cancerologia, Dept. of Pathology, Mexico City, Mexico, <sup>3</sup>Instituto Nacional De Cancerologia, Dept. of Clinical Research, Mexico City, Mexico
- 838 **Targeting ERBB2 mutations in urothelial carcinoma**  
**By:** Audenet F.<sup>1</sup>, Isharwal S.<sup>1</sup>, Arcila M.<sup>2</sup>, Funt S.<sup>3</sup>, Rosenberg J.<sup>3</sup>, Bajorin D.<sup>3</sup>, Bochner B.<sup>1</sup>, Berger M.<sup>2</sup>, Al-Ahmadie H.<sup>2</sup>, Solit D.<sup>3</sup>, Iyer G.<sup>3</sup>  
**Institutes:**<sup>1</sup>Memorial Sloan Kettering Cancer Center, Dept. of Urology, New York, United States of America, <sup>2</sup>Memorial Sloan Kettering Cancer Center, Dept. of Pathology, New York, United States of America, <sup>3</sup>Memorial 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 R<sup>1</sup>, Qu S.<sup>2</sup>, Liang H.<sup>2</sup>, Chen X.<sup>2</sup>, Zhang C.<sup>2</sup>, Guo H.<sup>1</sup>  
**Institutes:**<sup>1</sup>The Affiliated Drum Tower Hospital Of Nanjing University, School Of Medicine, Dept. of Urology, Nanjing, China, <sup>2</sup>Nanjing University, Dept. of Biological Science, Nanjing, China
- 840 **M2 muscarinic receptors inhibit cell proliferation and migration in urothelial bladder cancer cells**  
**By:** Palleschi G., Pastore A.L., Al Salhi Y., Fuschi A., Velotti G., Leto A., De Falco E., Calogero A., Petrozza V., Carbone A.  
**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)