

Regulation of urothelium carcinogenesis and progression

Poster Session 63

Monday, 14 March
08:45 - 10:15

Location: Room Paris (Hall B2, level 0)

Chairs: B.C. Jeong, Seoul (KR)
A. Vlahou, Athens (GR)
E. Zwarthoff, Rotterdam (NL)

Aims and objectives of this presentation

Factors from tumour microenvironment are recognised as regulators of cancer progression. In this session, novel chemokines and miRNA which have a key role in bladder carcinogenesis will be discussed.

Poster viewing of 20 minutes. Presentations will take place on stage. Standard presentations are 2 minutes in length, followed by 2 minutes for discussion.

- 787 **The Cancer Genome Atlas (TCGA) project analysis of micro-RNA and gene expression subtypes of high-grade, muscle-invasive urothelial carcinoma**
By: Robertson G.², Gunaratne P.³, Lerner S.¹, Mungall A.², Brooks D.², Bowlby R.², Sipahimalani P.², Jones S.², Marra M.², Hoadley K.⁴, Kwiatkowski D.⁵, Rosenberg J.⁶, Weinstein J.⁷
Institutes:¹Baylor College of Medicine, Dept. of Urology, Houston, United States of America, ²BC Cancer Agency, Genome Sciences Center, Vancouver, Canada, ³University of Houston, Dept. of Biology & Biochemistry, Houston, United States of America, ⁴University of North Carolina, Dept. of Genetics, Chapel Hill, United States of America, ⁵Harvard, Broad Institute, Boston, United States of America, ⁶Memorial Sloan Kettering Cancer Center, Dept. of Medical Oncology, New York, United States of America, ⁷MD Anderson Cancer Center, Computational Biology, Houston, United States of America
- 788 **Robust cancer-specific gene expression by a cassette with hTERT and CMV promoter elements as a novel system for detecting viable bladder cancer cells**
By: Sadahira T., Watanabe M., Araki M., Ebara S., Watanabe T., Nasu Y.
Institutes:Okayama University Graduate School, Dept. of Urology, Okayama, Japan
- 789 **Comprehensive analysis of immune infiltrates during BCG therapy reveals an immune profile strongly associated with bladder cancer recurrence**
By: Chevalier M.E.¹, Trabanelli S.², Gharbi D.¹, Cesson V.¹, Domingos-Pereira S.¹, Dartiguenave F.¹, Fritschi A-S.¹, Speiser D.², Romero P.², Jandus C.², Nardelli-Haefliger D.¹, Derré L.¹, Jichlinski P.¹
Institutes:¹Lausanne University Hospital, Dept. of Urology, Lausanne, Switzerland, ²University of Lausanne, Dept. of Cancer Research, Epalinges, Switzerland
- 790 **CXCL1 signalling is a crucial mediator between cancer cells and tumour-associated macrophages/cancer-associated fibroblasts for tumour invasion and progression in micro-environment of human bladder cancer**
By: Miyake M.¹, Hori S.¹, Morizawa Y.¹, Tatsumi Y.¹, Nakai Y.¹, Anai S.¹, Tanaka N.¹, Toritsuka M.², Kishimoto T.², Rosser C.³, Fujimoto K.¹
Institutes:¹Nara Medical University, Dept. of Urology, Kashihara-Shi, Japan, ²Nara Medical University, Dept. of Psychiatry, Kashihara-Shi, Japan, ³University of Hawaii Cancer Center, Dept. of Clinical and Translational Research, Honolulu, United States of America
- 791 **Notch2-HEY axis promotes tumour growth in bladder cancer through cell cycle progression and de-differentiation**
By: Hayashi T.¹, Goriki A.², Oo H.Z.², Seiler R.², Todenhofer T.², Jaeger W.², Awrey S.², Altamirano-Dimas M.², Fazli L.², Matsubara A.¹, Black P.²

Institutes:¹Hiroshima University, Dept. of Urology, Hiroshima, Japan, ²Vancouver Prostate Centre, Dept. of Urology, Vancouver, Canada

- 792 **Advanced two-step transcriptional amplification as a novel system for cancer-specific gene expression and imaging**
By: [Sadahira T.](#), Watanabe M., Araki M., Ebara S., Watanabe T., Nasu Y.
Institutes: Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Dept. of Urology, Okayama, Japan
- 793 **Relationship of \square MV infection with transitional cell carcinoma of bladder**
By: [Kosova L.](#)
Institutes: Moscow City Hospital \square 68, Dept. of Urology, Moscow, Russia
- 794 **Stabilization of invadopodia by plectin-mediated conjunction to vimentin intermediate filament is a critical molecular step of invasion and extravasation for metastasis in bladder cancer**
By: [Yoneyama M.S.](#)¹, Hatakeyama S.², Habuchi T.³, Inoue T.³, Nakamura T.⁴, Funyu T.¹, Wiche G.⁵, Tsuboi S.¹, Ohyama C.²
Institutes:¹Oyokyo Kidney Research Institute, Dept. of Cancer Immunology and Cell Biology, Hirosaki, Japan, ²Graduate School of Medicine, Hirosaki University, Dept. of Urology, Hirosaki, Japan, ³Akita University, Dept. of Urology, Akita, Japan, ⁴Graduate School of Health Sciences, Hirosaki University, Dept. of Biomedical Sciences, Hirosaki, Japan, ⁵Vienna University, Dept. of Biochemistry and Cell Biology, Vienna, Austria
- 795 **Combination of human immunodeficiency virus protease inhibitors causes bladder cancer apoptosis synergistically by inducing endoplasmic reticulum stress and histone acetylation**
By: [Sato A.](#), Asano T., Isono M., Okubo K., Ito K., Asano T.
Institutes: National Defense Medical College, Dept. of Urology, Tokorozawa, Japan
- 796 **CCDC34 is up-regulated in bladder cancer and regulates bladder cancer cell proliferation, migration and invasion**
By: [Gong Y.](#)¹, Qiu W.², Ning X.¹, Yang X.¹, Li X.¹, Guo Y.¹
Institutes:¹Peking University First Hospital, Dept. of Urology, Beijing, China, ²Beijing Friendship Hospital, Capital Medical University, Dept. of Urology, Beijing, China
- 797 **MicroRNA-145 promotes differentiation in human urothelial carcinoma through down-regulation of syndecan-1**
By: [Fuji T.](#)¹, Tatsumi Y.¹, Asano A.¹, Izutsu C.¹, Fujimoto K.², Konishi N.¹
Institutes:¹Nara Medical University, Dept. of Pathology, Kashihara, Nara, Japan, ²Nara Medical University, Dept. of Urology, Kashihara, Nara, Japan
- 798 **Uncovering the TWEAK/Fn14 cytokine-receptor axis in bladder cancer**
By: Pompas-Veganzones N.¹, Calvo R.¹, Sanchez-Niño M.D.², Dominguez O.³, Ortiz A.², Gonzalez-Peramato P.⁴, [Sanchez-Carbayo M.](#)¹
Institutes:¹University of the Basque Country, Dept. of Translational Oncology Laboratory, Vitoria-Gasteiz, Spain, ²Fundacion Jimenez Diaz, Dept. of Nephrology, Madrid, Spain, ³Spanish National Cancer Research Center, Dept. of Genomics, Vitoria-Gasteiz, Spain, ⁴Hospital La Paz, Dept. of Pathology, Madrid, Spain
- 799 **Exosomal miRNAs: Key regulators of cell-cell communication among bladder cancer cells and tumor microenvironment?**
By: [Baumgart S.](#)¹, Heinzelmann J.¹, Krause E.², Stöckle M.¹, Stampe Ostenfeld M.³, Junker K.¹
Institutes:¹University Hospital of Saarland, Dept. of Urology, Homburg, Germany, ²University Hospital of Saarland, Dept. of Physiology, Homburg, Germany, ³University Hospital Aarhus, Dept. of Molecular Medicine, Aarhus, Denmark
- 10:00 - 10:07 **Summary and context**
A. Vlahou, Athens (GR)