Novel models for studying prostate cancer biology
Poster Session 12

**Location:** Room Vienna (Hall B2, level 0)

**Chairs:** M. Puhr, Innsbruck (AT)
J.A. Schalken, Nijmegen (NL)
G. Van Der Pluijm, Leiden (NL)

**Aims and objectives of this presentation**
Novel animal and cellular models have been extensively used in prostate cancer research. Because of the heterogeneity of human prostate cancer, it is particularly important to demonstrate applicability of these novel models to address clinically relevant questions. Mediators of stromal epithelial interactions and respective signaling pathways 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.

14:38 - 14:48

**Introduction**
G. Van Der Pluijm, Leiden (NL)

**Periprostatic adipose tissue acts as a driving force for the local invasion of prostate cancer in obesity: Role of the CCR3/CCL7 axis**
By: Roumiguie M.¹, Laurent V.², Toulet A.², Zaidi F.³, Valet P.⁴, Mazerolles C.³, Malavaud B.¹, Muller C.²

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**The neurosteroidogenic potential of metastatic prostate cancer cell lines under starvation treatment with abiraterone**
By: Gomes De Mello Martins A.G.¹, Allegretta G.¹, Haupenthal J.¹, Eberhard J.¹, Van Der Zee J.², Unteregger G.², Stöckle M.², Junker K.², Hartmann R.W.¹, Ohlmann C.-H.²

**Institutes:** Helmholtz Institute For Pharmaceutical Research Saarland, Dept. of Drug Design and Optimization, Saarbrücken, Germany, ²Saarland University Medical Center, Dept. of Urology, Homburg-Saar, Germany

**Exploring a novel therapeutic target for neuroendocrine prostate cancer using a xenograft model of trans-differentiation**
By: Akamatsu S.¹, Wyatt A.², Lin D.², Lysakowski S.², Zhang F.², Kawai Y.², Fazli L.², Ogawa O.¹, Lotan T.¹, Rubin M.³, Beltran H.³, Zoubeidi A.², Wang Y.², Gleave M.², Collins C.²

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**Prostate cancer xenograft in vitro culture using organoid technology**
By: Nicholson C.², Williams E.², Vela I.¹

**Institutes:** Princess Alexandra Hospital/Australian Prostate Cancer Research Centre-Queensland, Dept. of Urology, Woolloongabba, Australia, ²Queensland University of Technology, Australian Prostate Cancer Research Centre - Queensland, Woolloongabba, Australia
Orthotopic xenografts using LuCaP136 spheroid cultures provide a versatile preclinical model of prostate cancer
By: Linxweiler J.1, Körbel C.2, Valta M.3, Müller A.4, Junker K.1, Stöckle M.1, Menger M.D.2, Peehl D.M.5, Saar M.1
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Development of prostate intra-epithelial neoplasia in an aging series of PolgA mutator mice suggests a role for mitochondrial DNA mutations in prostate carcinogenesis
By: Sachdeva A.1, El-Sherif A.2, Turnbull D.3, Greaves L.3, Heer R.1
Institutes: 1Newcastle University, Northern Institute of Cancer Research, Newcastle upon Tyne, United Kingdom, 2Newcastle-Upon-Tyne NHS Foundation Trust, Dept. of Histopathology, Newcastle upon Tyne, United Kingdom, 3Newcastle University, Wellcome Trust Centre For Mitochondrial Research, Newcastle upon Tyne, United Kingdom

Next generation sequencing to determine the clonal origin of lymph node metastasis in multifocal prostate cancer: Defining the biologically dominant nodule
By: Salami S.1, Hovelson D.2, Mathieu R.3, Susani M.4, Rioux-Leclercq N.5, Tracey J.1, Shariat S.3, Tomlins S.2, Palapattu G.1
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MED15 overexpression arises during androgen deprivation therapy via PI3K/mTOR signaling
By: Offermann A.1, Shaikhibrahim Z.2, Syring I.2, Vogel W.1, Ruiz C.3, Zellweger T.4, Rentsch C.A.5, Bubendorf L.3, Perner S.1
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Expression of glucocorticoid receptors, androgen receptors and its splice variants in prostate cancer: Comparison between hormone dependent and castrate-resistant prostate cancer
By: Shim M.1, Choi S.K.3, Kim Y.2, Ahn T.Y.2, Ahn H.2
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Tumour-stromal architecture influences prognosis and response to docetaxel in prostate cancer
By: Bokobza S.2, Hiew K.1, Huby R.2, Davies E.2, Brown M.1, Barry S.2, Davies B.2, Elliott T.3, Clarke N.4, Smith N.2
Institutes: 1Cancer Research UK Manchester Institute, The University of Manchester, Genito Urinary Cancer Research Group, Manchester, United Kingdom, 2AstraZeneca, R & D, Oncology IMed, Macclesfield, United Kingdom, 3Christie Hospital NHS Foundation Trust, Dept. of Oncology, Manchester, United Kingdom, 4Christie Hospital NHS Foundation Trust, Dept. of Urology, Manchester, United Kingdom

Patient-derived three-dimensional spheroid cultures provide an innovative tool for comprehensive in-vitro studies on organ-confined prostate cancer
By: Saar M.1, Linxweiler J.1, Muhs S.1, Ohlmann C.H.1, Jung V.1, Pryalukhin A.2, Junker K.1, Stöckle M.1
Institutes: 1Saarland University Medical Center, Dept. of Urology and Pediatric Urology, Homburg/Saar, Germany, 2Saarland University Medical Center, Dept. of Pathology, Homburg/Saar,
The C-Myc and TNFα/NF-κB pathways are critically involved in the regulatory network between the undifferentiated prostate basal stem cell state and the more differentiated luminal prostate epithelial cells

By: Höfner T.¹, Klein C.², Eisen C.², Rigo-Watermeier T.², Haferkamp A.³, Trumpp A.², Sprick M.²

Institutes: University Hospital Frankfurt, Heidelberg Institute for Stem Cell Research and Experimental Medicine (HI-STEM), German Cancer Research Center (DKFZ), Frankfurt am Main, Germany, German Cancer Research Center (DKFZ), Heidelberg Institute for Stem Cell Research and Experimental Medicine (HI-STEM), Heidelberg, Germany, University Hospital Frankfurt, Dept. of Urology, Frankfurt am Main, Germany