UNIVERSITÄTS KLINIKUM jena

8th POSTGRADUATE SYMPOSIUM
ON CANCER RESEARCH

Saturday, April 23, 2016
Altes Schloss Dornburg (Kaisersaal)

IZKF JENA

IZKF Graduate Program for Experimental Medicine

UniversitätsTumorCentrum Jena

Institute of Pathology

In cooperation with:

- Leibniz Institute for Age Research (Fritz Lipmann Institute)
- Leibniz Institute for Natural Products and Infection Biology Jena (Hans-Knöll-Institute)

ORGANIZATION

Institute of Pathology, Jena University Hospital

in collaboration with:

- **Interdisciplinary Centre for Clinical Research (IZKF), Graduate Program for Experimental Medicine, University Hospital Jena**
- **UniversitätsTumorCentrum (UTC) Jena**
- **Leibniz Institute for Age Research (Fritz Lipmann Institute)**
- **Leibniz Institute for Natural Products and Infection Biology Jena (Hans-Knöll-Institute)**
- **Jena School of Molecular Medicine**
- **Jena Graduate Academy**

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Spänkuch, Birgit
von Eggeling, Ferdinand
Wang, Zhao-Qi
Weigand, Wolfgang

LOCATION

Kaisersaal, Altes Schloss Dornburg

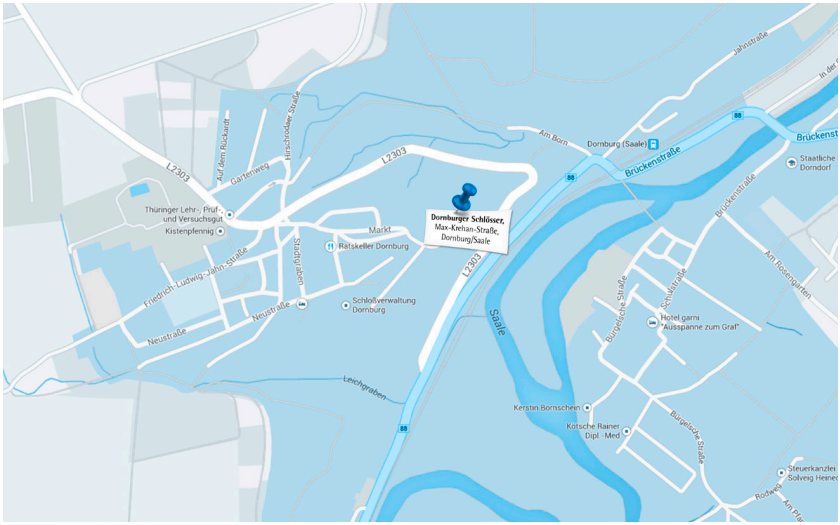
TRAVELLING

By train:

Take the regional train from Jena-Paradies to Dornburg (Saale).
See following link to check the schedule: http://vmt.hafas.de

By car (from Jena):

Take B88, slight left at Jenaer Str./L2303 with sign for Dornburg, turn left at August-Bebel-Straße, slight left at Markt and continue onto Schloßplatz. (give Dornburger Schlösser, Max-Krehan-Straße, Dornburg/Saale, to your navigation system)



Das Symposium ist als ärztliche Fortbildungsveranstaltung im Rahmen des Fortbildungszertifikats der Landesärztekammer Thüringen anerkannt (Kategorie A, Punkte 9).

THIS SYMPOSIUM IS SUPPORTED BY:

Boehringer Ingelheim Pharma GmbH & Co. KG .....(with 500€)

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PROGRAM

8:00 **Registration**

9:00 **Welcome address**
Prof. Dr. K. Lenhard Rudolph, Scientific Director, Leibniz Institute for Age Research (Fritz Lipmann Institute)

9:10 **JIP Cancer Graduation Award**
Lecture of the laureate

9:30 **Keynote lecture**
Prof. Guido Kroemer, University of Paris Descartes / French Medical Research Council (INSERM): Essential role of anticancer immunosurveillance in the success of anticancer therapies

10:30 **Coffee break**

11:00 **ORAL PRESENTATIONS**
SESSION 1: TUMOR CELL BIOLOGY
Chairs: Frank D. Böhmer, Anne Knierim

1 Regulation of Invasion of Prostate Cancer Cells by Matrix Metalloproteinases
Pilz, Jessica; Institute of Human Genetics, Jena University Hospital

2 High rates of submicroscopic aberrations in karyotypically normal acute lymphoblastic leukemia
Othman, Moneeb A.K.; Institute of Human Genetics, Jena University Hospital

3 Role of SULT1E1 as telomerase suppressor in cervical carcinogenesis
Svonja, Jovana; Department of Gynecology, Jena University Hospital

4 „Stem-cell like“ cells in gliomas - markers apart from CD133?
Klippel, Fritz; Department of Neurosurgery, Jena University Hospital

5 Identifying regulatory mechanisms of micro-RNAs in human cancer using piece-wise linear models
Ast, Volker; Network Modelling, Leibniz Institute for Natural Product Research and Infection Biology (HKI) Jena

6 Identification of evolutionary conserved genetic networks controlling Ras-driven epithelial cancers
Zoranovic, Tamara; Max Planck Institute for Infections Biology, Berlin

7 Relevance of ITIH5 for cervical carcinogenesis
Ziegfeld, Angelique; Department of Gynecology, Jena University Hospital

8 A novel tumor suppressor crosstalk of ING1 and ING2
Schmäche, Tim; Institute of Human Genetics, Jena University Hospital

9 NUP214: A new player in Notch dependent T-ALL?
Kindermann, Bastian; Leibniz Institute for Age Research - Fritz Lipmann Institute (FLI), Jena

13:00 **Lunch Snack**

13:45 **POSTER SESSION 1: TUMOR CELL BIOLOGY**
Chairs: Regine Heller, Ferdinand von Eggeling

10 Dichotomous role of RUNX3 isoforms in Ovarian Carcinogenesis
Heinze, Karolin; Department of Gynecology, Jena University Hospital

11 Receptor protein-tyrosine phosphatases (RPTP) controlling activity of the oncoprotein FLT3 ITD
Kresinsky, Anne; Institute for Molecular Cell Biology, Center for Molecular Biomedicine, Jena University Hospital

12 Bone morphogenetic protein 4 effects invasive tumor cell subpopulation
Mihajlovic, Jelena; Department of Internal Medicine II, Jena University Hospital

13 Constitutive mTORC1 signaling distorts DNA replication program and sensitizes TSC deficient cells to genotoxic stress
Pai, Govind; Institute for Molecular Cell Biology, Center for Molecular Biomedicine, Jena University Hospital

14 Identification of potential genes regulated by tumor suppressor HOPX in human lung cancer cells
Li, Yong; Institute of Pathology, Jena University Hospital

15 Transcriptional and genomic single tumor cell analysis
Hinze, Anna; Department of Internal Medicine II, Jena University Hospital

16 PIM Kinases in Trophoblast cells
Photini, Stella Mary; Placenta Lab., Department of Obstetrics, Jena University Hospital

17 Cytokines up-regulate miR-21 in trophoblastic cells through STAT3 activation
Chaiwangyen, Wittaya; Placenta Lab., Department of Obstetrics, Jena University Hospital

18 Survival of primary, but not cancer cells after Plk1-HDAC inhibition
Lange, Lisa; Institute for Biochemistry and Biophysics, University Jena

POSTER SESSION 2: TUMOR DIAGNOSTIC AND THERAPY
Chairs: Karlheinz Friedrich, Joachim Clement

19 Strategies for the combinatorial use of magnetic hyperthermia and chemotherapy in colorectal carcinomas
Dabaghi, Mohammed; Department of Experimental Radiology, Institute for Diagnostic and Interventional Radiology, Jena University Hospital

20 Chemotherapeutics on cervical cancer and trophoblastic cells in 2D and 3D
Heger, Julia; Placenta Lab., Department of Obstetrics, Jena University Hospital

21 Effects of chemotherapy on tumor spheroids and toxicity on trophoblast cells
Morgner, Stephanie; Placenta Lab., Department of Obstetrics, Jena University Hospital

22 Strong cytotoxic effects of Methotrexate on human leukemia T cells but small effects on human granulosa cells
Al-Kawlani, Boodor; Placenta Lab., Department of Obstetrics, Jena University Hospital

23 Overcoming Cisplatin-Resistance: Design and Biological Interactions of Platinum (II) Complexes
Hildebrandt, Jana; Institute of Inorganic and Analytical Chemistry, University Jena

24 Poly (ADP-ribose) regulation of Chk1 as a potential target for cancer therapy
Siniuk, Kanstantsin; Leibniz Institute for Age Research - Fritz Lipmann Institute (FLI) Jena

25 Anti-proliferative effects of Orlistat onto human glioblastoma cells in mice
Bauer, Johannes; Department of Neurosurgery, Jena University Hospital

26 Protein-tyrosine phosphatase expression and therapy response in CML cells
Drube, Julia; Institute for Molecular Cell Biology, Center for Molecular Biomedicine, Jena University Hospital

27 Joint Project on Biological elimination of complex diagnostic nanoparticles - NanoBEL
Kögler, Christine; Department of Experimental Radiology, Institute of Diagnostic and Interventional Radiology, University Hospital Jena

POSTER SESSION 3: TUMOR MICROENVIRONMENT AND EPIGENETIC REGULATION

Chairs: Ingrid Hilger, Thomas Liehr

28 3D-Tumor spheroid model-Investigations in relation to the cervical carcinogenesis
Daum, Ann-Kathrin; Department of Gynecology, Jena University Hospital

29 Comparing alternative splicing of samples from sepsis and other diseases
Biering, Antje; Leibniz Institute for Age Research - Fritz Lipmann Institute (FLI) Jena

30 Differential behavior of BeWo and Pericytes during incubation with SPIONs
Müller, Elena; Department of Internal Medicine II, Jena University Hospital

31 The influence of TNFα on autophagy
Ender, Claudia; Institute for Molecular Cell Biology, Center for Molecular Biomedicine, Jena University Hospital

32 Compromised proteasomal activity in endothelial cell senescence
Odeta, Mece; Institute for Molecular Cell Biology, Center for Molecular Biomedicine, Jena University Hospital

33 The sodium-hydrogen exchanger NHE1 in endothelial cells regulates angiogenesis
Kryeziu, Nderim; Institute for Molecular Cell Biology, Center for Molecular Biomedicine, Jena University Hospital

34 Role of endothelial cell metabolism in the development of new antiangiogenic therapy strategies in renal cell carcinoma
Knierim, Anne; Institute for Molecular Cell Biology, Center for Molecular Biomedicine, Jena University Hospital

35 Communication between bladder cancer cells and stromal fibroblasts: Tumor-cell-derived interleukin-1α regulates expression of malignancy-related cytokines/chemokines in fibroblasts via NF-kB
Singh, Rajan; Institute of Biochemistry II, Jena University Hospital

36 Salmonella-triggered activation and migration of avian gamma/delta T-cell subsets
Polasky, Christina; Institute of Molecular Pathogensis, Institute of Bacterial Infections and Zoonoses, Friedrich-Loeffler-Institut Jena

15:00 **ORAL PRESENTATIONS**
SESSION 2: TUMOR DIAGNOSTIC AND THERAPY
Chairs: Christian Ewald, Karolin Heinze

37 Understanding the fingerprint of the chemotherapeutic agents oxaliplatin and irinotecan
Rauch, Anke; Institute of Biochemistry and Biophysics, Department of Biochemistry, University Jena

38 Antiandrogens induce cellular senescence in triple negative breast cancer cells
Back, Georg; Institute of Human Genetics, Jena University Hospital

39 Upregulation of CSF2RB in chronic myeloid leukemia on nilotinib therapy: Correlation of pre-clinical data with clinical samples
Becker, Constance; Department of Internal Medicine II, Jena University Hospital

40 Characterization of genes related to cisplatin-resistance in ovarian carcinoma cell lines
Kritsch, Daniel; Department of Gynecology, Jena University Hospital

41 Heat shock protein inhibitors reduce androgen receptor stability and inhibit the growth of human prostate cancer cells
Khan, Amir-Saeed; Institute of Human Genetics, Jena University Hospital

42 Analysis of thyroid hormone-induced cellular senescence in neuroblastoma cells
Kotolloshi, Roland; Institute of Human Genetics, Jena University Hospital

43 3D MALDI imaging of a head and neck tumor
Hoffmann, Franziska; ENT Department, Jena University Hospital

44 Effect of the autophagy inhibitor chloroquine on gefitinib-resistant lung cancer cells and clinical relevance of autophagy-associated proteins
Schnitzler, Kai-Leonie; Institute of Pathology, Jena University Hospital

45 Cystatin A is silenced by DNA hypermethylation in human lung cancer
Ma, Yunxia; Institute of Pathology, Jena University Hospital

17:00 **Break**

17:30 **Dinner / Awards**

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