DFG Hinterzartener Kreis für Krebsforschung

From Molecular Mechanisms to Cancer Therapy

May 15-18, 2014
Villa La Collina
Cadenabbia (Co), Italy

Program Committee
Ursula Klingmüller, Heidelberg (Chair)
Martin Schuler, Essen
Cathrin Brisken, Lausanne
Clemens A. Schmitt, Berlin
Anja Bosserhoff, Regensburg

Thursday, May 15, 2014

DFG

Arrival until 2:30 p.m.

3:30 – 3:45 Welcome and Introduction
Eckard Picht, German Research Foundation
Ursula Klingmüller, Chair of the Program Committee

Session I: Circulating tumor cells and new diagnostics
Chair: Cathrin Brisken, Lausanne

3:45 – 4:00	Cathrin Brisken, Lausanne Introduction
4:00 – 4:15	Thordur Oskarsson, DKFZ Heidelberg (Junior speaker) Stem cell niche component tenascin C promotes breast cancer metastasis
4:15 – 4:45	Klaus Pantel, Universitätsklinikum Hamburg-Eppendorf Circulating tumor cells: biology and clinical implications
5:00 – 5:30	Zena Werb, University of California, San Francisco, USA Building the metastatic microenvironment
5:45 – 6:00	**Coffee Break**
6:00 – 6:30	Jacco van Rheenen, Hutrecht Institute, Utrecht, The Netherlands Intravital imaging of cancer cell plasticity in tumor progression and therapy resistance

7:00 p.m. Dinner

Friday, May 16, 2014

Session II: Clonal and phenotypic evolution in cancer therapy
Chair: Martin Schuler, Essen

8:30 – 8:45	Martin Schuler, Essen Introduction
8:45 – 9:00	Johannes Schulte, Universitätsklinikum Essen (Junior Speaker) Targeting the Lin28b-Let7-MYCN axis in neuroblastoma
9:00 – 9:30	Michael Hölzel, Universitätsklinikum Bonn Plasticity of tumor and immune cells: a source of heterogeneity and a cause for therapy resistance?
9:45 – 10:15	Trever Bivona, UCSF Cancer Center, San Francisco, USA Impact of clonal heterogeneity and evolution in lung cancer
10:30 – 10:45	**Coffee Break**
10:45 – 11:15	Edwin Wang, McGill University, Montreal, Canada A cancer hallmark network framework-based tool, eTumorKiller, for predicting tumor clone's drug targets
11:30 – 12:00	Mariam Jamal-Hanjani, Cancer Research UK, London Spatial and Temporal Heterogeneity in NSCLS

12:15 – 1:45 Lunch break

1:45 – 4:30 Free time, Individual Sightseeing*

Friday, May 16, 2014

Session III: From systems biology towards systems medicine in cancer research
Chair: Ursula Klingmüller, Heidelberg

4:45 – 5:00	Ursula Klingmüller, DKFZ Heidelberg Introduction
5:00 – 5:15	Andreas Raue, University of Freiburg/Merrimack Boston Quantitative dynamic modeling in drug development
5:15 – 5:45	Thomas Höfer, Bioquant Heidelberg Quantifying proliferation and differentiation decisions of normal and cancer cells
5:45 – 6:15	Dirk Drasdo, INRIA Paris and University of Leipzig How quantitative modeling can inform on disease pathogenesis lessons from liver
6:30 – 6:45	**Coffee Break**
6:45 – 7:15	Birgit Schoeberl, Merrimack, Boston Computational modeling to predict in vivo responses of drug combinations for HER2-amplified tumors
7:15 – 7:45	Matthias Mann, Martinsried Proteomics in cancer research and diagnosis

8:00 p.m. **Dinner**

Saturday, May 17, 2014

Session IV: Cancer cell plasticity, heterogeneity or "cancer stem cells" - what can we learn for cancer therapy?
Chair: Anja Bosserhoff

8:30 – 8:45	Anja Bosserhoff, Regensburg Introduction
8:45 – 9:00	Alexander Rösch, Universitätsklinikum Essen Tumor heterogeneity and phenotypic plasticity in malignant melanoma
9:00 – 9:30	Owen Sansom, Beatson Institute of Cancer Research, Glasgow Using Gemm models to test the concept of stratified medicine *in vivo*
9:30 – 10:00	Colin Goding, University of Oxford, UK Directing phenotype-switching in melanoma
10:15 – 10:30	**Coffee Break**
10:30 – 11:00	Ashani Weeraratna, Wistar Institute, Philadelphia, USA Microenvironmental regulation of melanoma metastasis and therapy resistance
11:00 – 11:30	Mina J. Bissell, Lawrence Berkeley National Lab, Berkeley, USA The critical role of breast microenvironment in initiation, promotion, dormancy and drug resistance

12:15 – 1:45 Lunch Break

Saturday, May 17, 2014

Session V: Exploiting emerging molecular principles for cancer therapy

Chair: Clemens Schmitt

2:00 – 2:15	Clemens Schmitt, Berlin Introduction
2:15 – 2:30	Angela Relogio (Junior Speaker) Ras-mediated deregulation of the circadian clock in cancer
2:30 – 3:00	Howard Y. Chang, Stanford Personal epigenomics for cancer diagnosis and therapy
3:00 – 3:30	Carlo Croce, Ohio, USA Micro RNAs in cancer
3:45 – 4:00	**Coffee Break with Cake**
4:00 – 4:30	Peter Lichter, Heidelberg Integrative OMICS Analyses of Brain Tumors: Impact on Elucidation of Pathomechanisms and Clinical Translation
4:30 – 5:00	Corinne Bertolotto, Nizza Melanoma genesis, senescence, stem cells

5:30 – 7:00 **Meeting of the Program Committee**

8:00 p.m. **Candle Light-Dinner at the Villa**

Sunday, May 18, 2014

Departure after Breakfast

***Sightseeing Suggestions**
Villa Carlotta - http://www.villacarlotta.it/
Bellagio - http://www.lagodicomo.com/english/bellagio.php
San Martino - http://www.cadenabbiadigriante.com/inglese/itinerari/09.asp

Venue of the Meeting:

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