

6th Global Reverse Phase Protein Array Workshop

RPPA 2016

Sept 25-27, 2016 - NMI at the University of Tübingen, Germany

Arrays to Results: Technologies - Applications - Biomarkers



**NMI Natural and Medical
Sciences Institute
at the University of Tübingen**

Markwiesenstrasse 55,
72770 Reutlingen,
Germany

GPS-Coordinate:
48°29'38.24" N
9°08'02.73" O



AGENDA

Get updated about latest developments and applications for signaling protein, cancer and drug profiling at RPPA2016:

- Hear about the latest developments in RPPA and protein biomarker research
- Find out how RPPA is complementing Next Generation Sequencing to advance personalized healthcare strategies
- Learn about perturbation biology and network pharmacology to beat resistance to targeted cancer therapy
- Hear about how RPPA is being used in drug development applications
- Network with basic research scientists, drug discovery groups and clinician scientists applying RPPA
- Meet instrument vendors, industry providers and academic facilities offering Array printing, RPPA services, Protein biomarker discovery and validation tools
- Find out how RPPA can enhance your basic and translational research goals

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Sunday September 25th 2016

Day 1 Afternoon Session

15:00 Registration

16:00 Welcome

Basic technical aspects of RPPA

Chairs: Bryan Serrels and Satoshi Nishizuka

- 16:10 **Opening Keynote:**
General overview RPPA
Lance A. Liotta
(George Mason University, Manassas, Virginia, USA)
RPPA vs Proteomics Technologies
- 16:40 **Bryan Serrels**
(University of Edinburgh, Edinburgh, UK),
Overview RPPA Platforms and Processes
- 17:10 **Iain Mc William**
(ArrayJet, Roslin, UK)
Overview Printing Technologies
- 17:40 **Leanne de Koning**
(Institut Curie, Paris, France)

Slides, Buffers, Sample Handling, Imaging
short presentation
Round table discussion
(moderation Leanne de Koning, session members)
- 18:10 - Networking opportunity: get together with food and wine

Monday September 26th 2016

Day 2

Chair: Michael Pawlak

- 8:30 **Keynote: Chris Sander**
(cBio Center at Dana-Farber Cancer Institute and Department
of Cell Biology, Harvard Medical School, Boston, MA, USA)
Proteomics technology, perturbation biology and network
pharmacology to beat resistance to targeted cancer therapy

Quantitation, normalization and quality control

(including "latest development aspects")

Chairs: Leanne de Koning

- 9:00 **Rehan Akbani**
(MD Anderson Cancer Center, Houston, Texas, USA)
Quality control and merging RPPA datasets
- 9:30 **Leanne de Koning**
(Institut Curie, Paris, France)
European RPPA platforms: when we dare to compare
(an inter-platform comparison)
- 10:00 Selected presentations based on submitted abstracts
- 10:30 *Coffee break*
- ### Research and new applications
- Chairs: Markus Templin and Steven Kornblau
- 11:00 **N.N.** sponsored talk
(Grace Bio Labs, Bend, Oregon, USA)
title to be announced

- 11:20** **Steven Kornblau**
(MD Anderson Cancer Center; Houston, Texas, USA)
Use of RPPA in hematological malignancies to define
expression signatures and to direct targeted therapy
- 11:50** Selected presentations based on submitted abstracts
- 12:20** *Lunch and Poster Session*

Drug Discovery & Development (including 3D tissue models)

Chairs: Neil Carragher and Michael Pawlak

- 14:00** **Daniel Guthy**
(Novartis Institutes for Biomedical Research NIBR, Basel,
Switzerland)
title to be announced
- 14:30** **Neil Carragher**
(University of Edinburgh, Edinburgh, UK)
New RPPA applications for drug mechanism-of-action profiling
- 15:00** **Jens Kelm**
(InSphero GmbH, Zürich, Switzerland)
Multi-parametric 3D tumor microtissue-based phenotypic
compound classification
- 15:30** **Michael Pawlak**
(NMI, Protein Profiling, Reutlingen, Germany)
Signaling pathway profiling in treated 3D tumor microtissues
- 16:00** *Coffee Break*
- 16:30** Selected presentations based on submitted abstracts

Ulrike Korf Award and Lecture

Chair: Karl-Friedrich Becker

- 17:00** **Ulrike Korf Award**
KF Becker
(Institute of Pathology, Technical University, Munich, Germany)
- 17:10** **Ulrike Korf Memorial Lecture**
Satoshi S. Nishizuka
(Iwate Medical University, Morioka, Iwate, Japan)
Profiling drug-tolerant cancer cell subpopulations using RPPA
- 17:40** End of lecture program day 2

Depart to Tübingen

Social Event and Networking Dinner

- 18:30** **Punt boat ride** on the river Neckar in Tübingen.
- 20:00** **Networking Dinner**, Restaurant Casino am Neckar, Tübingen

<http://www.casino-am-neckar-tuebingen.de/restaurant/>

Tuesday September 27th 2016

Day 3

Clinical Applications

Chairs: Karl-Friedrich Becker and Emmanuel Petricoin

- 8:30** **Keynote: Christine Sers**
(Institute of Pathology, Charité University Hospital, Berlin, Germany)
Systems Biology Approaches in Colorectal Cancer
- 9:00** **Karl Friedrich Becker**
(Institute of Pathology, Technical University, Munich, Germany)
How to use tissue samples for RPPA analysis
- 9:30** **Gordon Mills**
(MD Anderson Cancer Center, Houston, Texas, USA)
Application of large scale RPPA data sets to discovery and implementation of patient therapy
- 10:00** *Coffee Break*
- 10:30** **Christian Regenbrecht**
(Institute of Pathology, Charité University Hospital, Berlin, Germany)
Exploring tumor heterogeneity:
New leads for personalized oncology
- 11:00** **Peter Nilsson**
(KTH – Royal Institute of Technology, Stockholm, Sweden)
An arrayed biobank on 12k serum RPPAs
- 11:30** **Tesshi Yamada**
(National Cancer Center Research Institute, Tokyo, Japan)
Signaling Pathway Profiling by RPPA for Drug Development and Personalized Cancer Medicine

- 12:00** **Julie Wulfschle**
(George Mason University, Manassas, Virginia, USA)
Results of the ISPY2 Trial
- 12:30** *Lunch and Poster Session*
- 14:30** Selected presentations based on submitted abstracts
(Clinical Applications)

Emerging Technologies to validate Biomarker discoveries

Chairs: Thomas Joos

- 15:00** **Markus Templin**
(NMI, Reutlingen, Germany)
DIGI-West:High-Content Protein Profiling
- 15:30** **Thomas Joos**
(NMI, Reutlingen, Germany)
Cross Species Immunoassays / ultrasensitive technologies
- 16:00** Selected presentations based on submitted abstracts
- 16:30** *Coffee Break*
- RPPA Society: news and updates**
- 17:00** **Satoshi S. Nishizuka**
(Iwate Medical University, Morioka, Iwate, Japan)
- 17:20** **Closing Remarks**
- 17:30** **Close of the Workshop**