

MRS 2014 Conference Programme

Saturday 28th June

- 11:00 – 13:00 MRS Executive Board Meeting
DKFZ, Communication Centre
- 12:00 Registration desk opens
- 14:00 – 14:30 **Welcome and Introduction**
Carrie Rinker-Schaeffer and Jonathan Sleeman

14:30 – 16:30

Session 1: Clinical perspectives

Chair: Dihua Yu and Jonathan Sleeman

Christoffer Gebhardt	A clinical view of metastasis in malignant melanoma
Nadia Harbeck	uPA system in breast cancer: clinical validation as an ASCO recommended biomarker and a therapy target
Brunilde Gril	Molecular and Preclinical Insights in Brain Metastasis of Breast Cancer
Short talk	Dihua Yu: Targeting driver kinases as novel therapies for breast cancer brain metastases (Abstract #B83)
Short talk	CJ (Dian) Corneliussen-James: What metastatic breast cancer patients want, need, know and don't know (Abstract #A23)

16:30 Break

17:00 – 19:00

Session 2: The „Omics“ of metastasis and systems medicine

Chair: Rik Thompson

Christine Iacobuzio-Donahue	Dynamics of Clonal Progression in Pancreatic Cancer
Rune Linding	Targeting colorectal cancer metastasis using global, quantitative and integrative network biology
Birgit Schoeberl	Using Systems Medicine to understand the impact of the variability of liposomal drug delivery to diverse tumor lesions in patients
Short talk	Kent Hunter: Integrated SNPs, epigenetics and transcriptomics to better understand the inherited predisposition to breast cancer metastasis (Abstract #A61)
Short talk	Eran Andrechek: A mouse model gene expression database reveals E2Fs as key regulators of breast cancer metastasis (Abstract #A9)

19:00 Welcome Buffet, DKFZ Communication Centre Foyer

Sunday 29th June

08:30 – 10:30

Session 3: Regulation of metastasis by the immune system

Chair: Andrea Mastro

Lisa Coussens	Inflammation and Cancer: Good Cells Behaving Badly
Jeffrey Pollard	The Metastatic Cascade - Macrophages lead the way
Tomoharu Miyashita	<i>JAMR-sponsored plenary talk</i> : The metastasis-promoting roles of extravasated platelet aggregation in pancreatic cancer and stroma
Short talk	<i>Seth Coffelt</i> : Gamma delta T cells and neutrophils conspire together to promote breast cancer metastasis (Abstract #A20)
Short talk	<i>Noona Ambartsumian</i> : Anti-S100A4 antibody suppresses tumor progression and metastasis by blocking the recruitment of T cells to the growing tumor and the pre-metastatic niche (Abstract #A7)

10:30 Break

11:00 – 12:30

Session 4: Regulation of metastasis by inflammation

Chair: Barbara Fingleton

Fran Balkwill	Targeting inflammatory cytokines in cancer
Neta Erez	<i>AICR-sponsored plenary talk</i> Co-evolution of the Tumor Microenvironment During Cancer Progression and Metastasis
Short talk	<i>Agnieszka Swierczak</i> : The promotion of breast cancer metastasis caused by inhibition of CSF-1R/CSF-1 signaling is blocked by targeting the G-CSF receptor (Abstract #B60)
Short talk	<i>Tobias Bald</i> : UVB-induced neutrophilic inflammation promotes melanoma-endothelial cell interactions and metastasis (Abstract #A11)

12:30 – 13:30 **Lunch**

12:45 – 13:30 **Meet the Professors**

Room to be announced: Dan Welch, Rik Thompson, Dihua Yu

Room to be announced: Yibin Kang, Robin Anderson, Andrea Mastro

13:30 – 14:30 **CEM Editorial board meeting**

13:30 – 15:30 **Poster session I**

15:30 – 17:30

Session 5: Therapy-stimulated metastasis

Chair: Robin Anderson

Yuval Shaked	The role of macrophages in tumor growth and metastasis following treatment with chemotherapy
Russell Hughes	A distinct subset of perivascular macrophages drive tumour relapse after chemotherapy
Hellmut Augustin	Angiocrine regulation of tumor metastasis: A new window of opportunity for therapeutic intervention
<i>Short talk</i>	<i>Natacha Leroi: Does neoadjuvant radiotherapy and the timing of surgery modify metastatic dissemination? (Abstract #A80)</i>
<i>Short talk</i>	<i>Michael Lizardo: Metastatic osteosarcoma cell adaptation to proteotoxic stress in lung microenvironment involves upregulation of the endoplasmic reticulum chaperone glucose-related protein 78 (Abstract #A86)</i>

17:30 *Break*

18:00 – 19:00

Kurt Hellmann Award Lecture

Laudation: Dan Welch

Sue Eccles

Targeting metastatic disease: current progress and key challenges

Kindly sponsored by Novartis

Monday 30th June

08:30 – 10:00

Session 6: Microenvironment and niche

Chair: Carrie Rinker-Schaeffer

David Lyden	Tumor exosomes initiate pre-metastatic niche formation and organotropism
Zena Werb	Regulating the tumor microenvironment in primary tumors and metastases
Short talk	<i>Lalita Shevde-Samant</i> : Cellular crosstalk mediated by Hedgehog signaling in the tumor microenvironment (Abstract #B53)
Short talk	<i>Anette Hoyer</i> : LOX and TEM8, a new relationship affecting tumor and metastatic growth? (Abstract #A59)

10:00 Break

10:30 – 12:00

Session 7: Circulating tumor cells

Chair: Allison Allan

Klaus Pantel	Circulating tumor cells: Biology and clinical implications
Andreas Trumpp	Circulating Metastasis-initiating Cells in Breast Cancer
Short talk	<i>Miodrag Guzvic</i> : Targeted expression profiling of single disseminated cancer cells isolated from bone marrow of prostate cancer patients (Abstract #A39)
Short talk	<i>Robin Anderson</i> : Mobilisation of viable tumor cells into circulation during radiotherapy of NSCLC (Abstract #A8)

12:00 – 12:15 **Group photograph**

12:15 – 13:30 **Lunch**

12:30 – 13:30 **Workshop (main auditorium)**

Dan Welch, Jim Talmadge and Roberto Buccione

A view from the Editor's chair: tips to writing and reviewing manuscripts

Round table discussion together with Gemma Alderton

13:30 – 15:30 **Poster session 2**

15:30 – 17:30

Session 8: Dormancy

Chair: Klaus Pantel

Julio Aguirre-Ghiso	Mechanisms of disseminated tumor cell dormancy: an awakening cancer biology
Curzio Rüegg	Mechanisms of therapy-induced metastasis and dormancy
Carrie Rinker-Schaeffer	Insights into the clandestine Operations of Ovarian Cancer Metastases
<i>Short talk</i>	<i>Andrea Mastro: Dormancy in a Dish? Growth of metastatic breast cancer cells in a bone-like microenvironment in vitro (Abstract #B9)</i>
<i>Short talk</i>	<i>Veronique Orian-Rousseau: Role of CD44 in tumor progression and metastasis (Abstract #B20)</i>

17:30 Break

18:00 – 19:00

Fidler Innovation Award Lecture

Laudation: David Lyden

Yibin Kang

How cancer cells acquire metastatic traits

Kindly sponsored by Anticancer, Inc.

Tuesday 1st July

08:30 – 09:15

EACR-sponsored special imaging overview lecture

Chair: Jonathan Sleeman

Peter Friedl

Integrin-independent cancer invasion and metastatic dissemination

09:15 – 10:30

Session 9: Plasticity, cancer stem cells, EMT, therapy resistance I

Chair: Andries Zijlstra and Kazu Itoh

Thomas Brabletz	EMT, microRNAs and Cancer Stem Cells
Gerhard Christofori	Regulatory circuits of EMT and cancer metastasis
Short talk	<i>Radhika Nair</i> : The Inhibitor of Differentiation proteins mediate tumor-initiating properties and metastasis in breast cancer (Abstract #B11)
Short talk	<i>Geert Berx</i> : Identification of a ZEB2-ZEB1-MITF transcriptional network that controls melanogenesis and melanoma progression (Abstract #A13)

10:30 Break

11:00 – 12:30

Session 10: Plasticity, cancer stem cells, EMT, therapy resistance II

Chair: Andries Zijlstra and Kazu Itoh

Erik Thompson	Epithelial Mesenchymal Plasticity in Carcinoma Metastasis
Erwei Song	<i>ChMRS-sponsored plenary lecture</i> : A positive feedback loop of cancer cells undergoing EMT and tumor associated macrophages promotes breast cancer metastasis
Short talk	<i>Rajeev Samant</i> : Importance of regulation of NMI (N-Myc interactor) in breast cancer progression (Abstract #B45)
Short talk	<i>Andries Zijlstra</i> : Separation of tetraspanin CD151 from its integrin partner $\alpha 3\beta 1$ reflects an altered migratory state and predicts prostate cancer progression (Abstract #B90)

12:30 – 14:00 Lunch

13:00 – 14:00 MRS AGM (Main Auditorium)

14:00 – 16:00

Session 11: Early Career Ambassadors Session

Chair: Lalita Shevde-Samant and Josh Neman

Oystein Fodstad	Metastasis research – perspective on three decades of naivety and progress
Thomas Cox	Fibrosis, Cancer and the Pre-Metastatic Niche: Implications for Lysyl Oxidase
Short talk	Irwin Gelman: SSeCKS/AKAPI2 controls metastasis through multiple organ- and route-specific tumor/microenvironment interactions (Abstract #A37)
Short talk	Vasilios Panagopoulos: Uncovering a new role for peroxidases in breast cancer development and metastasis (Abstract #B21)
Short talk	Chris Madsen: STRIPAK components determine mode of cancer cell migration and metastasis (Abstract #B1)
Short talk	Yael Raz: Characterization of cancer associated fibroblasts in mammary gland carcinoma and lung metastasis (Abstract #B36)

16:00 Break

16:30 – 18:00

Session 12: Metabolism and metastasis

Chair: Conor Lynch

Dan Welch	Emerging connections between cancer metastasis and metabolism
Raghu Kalluri	MicroRNA-mediated metabolic reprogramming of breast cancer cells promotes metastasis
Short talk	Jim Talmadge: Diets high in saturated fats stimulate metastasis of orthotopic mammary tumors to the brain and bone by orthotopic mammary tumors (Abstract #B61)
Short talk	Katherine Venmar: Elucidating the mechanisms of IL4R α -induced mammary tumor growth (Abstract #B70)

18:00 – 18:15 **EACR- and Nature Reviews Cancer-sponsored poster awards**

Chairs: Sue Eccles (EACR) and Gemma Alderton (Nature Reviews Cancer)

18:15 – 18:30 **Concluding remarks**

20:00 Conference dinner, Hotel zum Ritter St. Georg, Heidelberg