PROGRAM

Sunday, 2\textsuperscript{nd} September 2012

\textbf{MRS Board Meeting}  
1:00 PM - 2:30 PM

\textbf{Registration}  
1:00 PM - 5:30 PM  
Boulevard Auditorium Foyer

\textbf{Welcome from Convenor, Co-Convenors and Indigenous Elder}  
3:30 PM - 4:00 PM  
Boulevard Auditorium

\textbf{Plenary 1}  
4:00 PM - 5:00 PM  
Chair: Shun'ichiro Taniguchi  
Boulevard Auditorium

4:00 PM  \textbf{Makoto Mark Taketo}  
Colon cancer microenvironment that helps invasion and metastasis: studies using mouse models  \textit{abs# 1}

\textbf{Welcome Function & Aboriginal Dance Performance (drinks and canapés provided)}  
5:00 PM - 6:30 PM  
Boulevard Auditorium Foyer
Symposium 1 - Clinical and Translational Aspects
8:30 AM - 10:00 AM
Chairs: Ian Street & Judith Clements
Boulevard Auditorium

8:30 AM  Amato Giaccia
Targeting the HIF/VHL pathway therapeutically to treat metastatic disease abs# 2

9:00 AM  Lun-Xiu Qin
Osteopontin: a promoter and a potential therapeutic target for hepatocellular carcinoma metastasis abs# 3

9:30 AM  Dihua Yu
Targeting Src family kinases as novel therapies for breast cancer brain metastases abs# 4

9:45 AM  Adrian Wiegmans
The role of RAD51 in the biology and therapeutic response of high-grade metastatic breast cancers abs# 5

This session is proudly sponsored by Cancer therapeutics CRC

Morning Tea
10:00 AM - 10:30 AM
Boulevard Auditorium Foyer
This session is proudly sponsored by AACR

Symposium 2 - Stem cells and, EMT/MET
10:30 AM - 12:30 PM
Chairs: Dihua Yu & Elizabeth Williams
Boulevard Auditorium

10:30 AM  Jean Paul Thiery
EMT in the progression of carcinoma abs# 6

11:00 AM  John Haley
Cellular plasticity as an important mechanism of drug-resistance to cancer therapies abs# 7

11:30 AM  Cameron Johnstone
ARHGAP8 is a marker of differentiated epithelium whose loss during breast cancer progression is tightly linked to epithelial-to-mesenchymal transition (EMT), the claudin-low molecular subtype, and a cancer stem cell phenotype abs# 8

11:45 AM  Qiang Liu
miR-27 regulates endothelial differentiation of breast cancer stem-like cells abs# 9

12:00 PM  Radhika Nair
Tumor propagating cells in breast cancer tumorigenesis and metastasis abs# 10

12:15 PM  Rodney Stewart
Fascin is required for neural crest migration and brain tumor invasion in zebrafish abs# 11

Lunch Break
12:30 PM - 1:30 PM
Boulevard Auditorium Foyer

Olink Seminar
12:50 PM – 1:10 PM
Dr. Elizabeth Williams
Title: Proximity ligation assay identifies heterodimerisation and activation state of endogenous proteins in tumour tissue and isolated cells

Boulevard Auditorium
Merck Millipore Seminar
1:10 PM – 1:30 PM Boulevard Auditorium

Dr. Cathy Noone
Title: Tumor Initiation, Promotion & Progression - an intense manipulation by cancer stem cells and chronic inflammatory signals.

Symposium 3 - Tumour Imaging
1:30 PM - 2:20 PM Boulevard Auditorium
Chairs: Jonathan Sleeman & Andreas Evdokiou

1:30 PM Erik Sahai
Imaging the metastatic process abs# 12
2:00 PM Robert Hoffman
Modeling and visualizing metastasis abs# 13

Plenary 2
2:20 PM - 3:20 PM Boulevard Auditorium
Chair: Qinghua Zhou

2:20 PM Xiu-Wu Bian
Contribution of cancer stem cells to angiogenesis and invasion of cancer abs# 14

Afternoon Tea
3:20 PM - 3:50 PM Boulevard Auditorium Foyer

Symposium 4 - Young Investigator Session 1 (organised by the Young MRS Ambassadors)
3:50 PM - 5:20 PM Boulevard Auditorium
Chairs: Lalita Shevde-Samant & Christina Tekle

3:50 PM Sachie Hiratsuka-Nakamura
Innate immune system mediates focal metastasis abs# 15
4:05 PM Alana Welm
Blocking Ron kinase prevents metastasis by boosting anti-tumor immunity abs# 16
4:20 PM Erwei Song
MiR-106b is regulated by transforming growth factor β signaling and promotes metastasis in breast cancer abs# 17
4:35 PM Belinda Parker
Tumour cell induced immune suppression dictates bone metastasis in breast cancer abs# 18
4:50 PM Erica Sloan
Neural regulation of metastasis: New avenues for therapeutic intervention abs# 19
5:05 PM Valerie LeBleu
Bioenergetic requirements of metastatic dissemination abs# 20

Poster Session (drinks provided)
5:20 PM - 7:20 PM Boulevard Auditorium Foyer

This session is proudly sponsored by Nature Reviews Cancer
Tuesday, 4th September 2012

Special Breakfast Workshop (Sponsored by Springer)
7:00 AM - 8:30 AM  Boulevard Auditorium

How to review a manuscript
Dan Welch Deputy Editor for Reviews, Cancer Research
James Talmadge Editor-in-Chief International Immunopharmacology
Melania Ruiz Senior Publishing Editor of Clinical & Experimental Metastasis

Symposium 5 - Stress, Chaperones and Metabolism
8:30 AM - 10:30 AM  Boulevard Auditorium
Chairs: John Price & Mark Waltham

8:30 AM  Amy Lee
Endoplasmic reticulum stress regulator GRP78 and cancer abs# 21

9:00 AM  Masahiro Inoue
Metabolism of cancer cells in hypoxia abs# 22

9:30 AM  Nigel Crawford
The role of germline genetic variation in the regulation of metastasis-related transcriptional
programs abs# 23

9:45 AM  Cara Lomas
The role of molecular chaperones in metastasis abs# 24

10:00 AM  Susanne Sölch
Overexpression of the GTP-binding protein rab31 induces a switch from an invasive to a
proliferative phenotype in breast cancer cells abs# 25

10:15 AM  Carol Lange
Breast Tumor Kinase (Brk/PTK6) Mediates Increased HGF/MET-Induced Breast Cancer Cell
Signaling and Migration abs# 26

Morning Tea
10:30 AM - 11:00 AM  Boulevard Auditorium Foyer

Symposium 6 - CTC, DTC and Dormancy
11:00 AM - 12:20 PM  Boulevard Auditorium
Chairs: Alison Allan & Alexander Swarbrick

11:00 AM  Christoph Klein
Selection and adaptation during metastatic cancer progression abs# 27

11:30 AM  Klaus Pantel
Cancer micrometastasis and circulating tumour cells abs# 28

11:50 AM  Dario Marchetti
Combating breast cancer brain metastasis: the CTC signature abs# 29

12:05 PM  Melanie Werner-Klein
Disseminated cancer cells from non-metastatic patients display tumorigenic potential in
immunodeficient mice abs# 30

Lunch Break: Meet the professors
12:20 PM - 1:20 PM  Boulevard Auditorium Foyer

This session is proudly sponsored by Cancer Therapeutics CRC

This session is proudly sponsored by Springer
Symposium 7A - Microenvironment, Angiogenesis and Lymphangiogenesis
1:20 PM - 2:50 PM
Boulevard Auditorium
Chairs: Yves DeClerck & Carmela Ricciardelli

1:20 PM  Raghu Kalluri
Fibrosis and cancer progression  abs# 31

1:50 PM   Steven Stacker
Vegf-D promotes tumor metastasis by regulating prostaglandins produced by the collecting lymphatic endothelium  abs# 32

2:20 PM  Albert Mellick
A novel small noncoding RNA regulated pathway controlling EPC biology and tumor angiogenesis  abs# 33

2:35 PM  John Hooper
A novel molecular mechanism mediating vascular metastasis  abs# 34

Afternoon Tea
2:50 PM - 3:20 PM
Boulevard Auditorium Foyer

Symposium 7B - Microenvironment and Inflammation
3:20 PM - 4:40 PM
Boulevard Auditorium
Chairs: Yibin Kang & Izhak Haviv

3:20 PM  Chris Overall
Degradomics analyses of dynamic proteolytic networks in the 4T1 tumor and lung metastases model of breast cancer  abs# 35

3:40 PM   James Talmadge
Molecular and cellular crosstalk between tumor and inflammatory cells in the tumor microenvironment: role in metastasis  abs# 36

3:55 PM   Ana Gil-Bernabe
Tissue Factor, VCAM-1 and VAP-1 orchestrate the recruitment of monocytes/macrophages to tumour cells in pulmonary metastasis  abs# 37

4:10 PM   Josh Neman
Co-evolution of breast to brain metastatic and neural progenitor cells  abs# 38

4:25 PM   Gera Neufeld
A furin resistant form of semaphorin-3E as a potential treatment for metastatic disease  abs# 39

Poster Session (drinks provided)
4:40 PM - 6:40 PM
Boulevard Auditorium Foyer

This session is proudly sponsored by Nature Reviews Cancer

Pre-Dinner Break
6:40 PM - 7:00 PM
Boulevard Room

Conference Dinner
7:00 PM for 7:30 PM Dinner
Boulevard Room
Wednesday, 5th September 2012

**Symposium 8 - Young Investigator Session 2 (organised by the Young MRS Ambassadors)**
9:00 AM - 10:30 AM  Boulevard Auditorium
Chairs: Suzanne Eccles & Clare Slaney

9:00 AM  
**Tsuyoshi Fukushima**  
Roles of membrane-bound serine protease inhibitor, HAI-1, in invasion and metastasis of cancers  *abs# 40*

9:15 AM  
**Yoshihiro Hayakawa**  
Cancer immune-escalation process and the role of inflammatory tumor microenvironment for promoting metastasis  *abs# 41*

9:30 AM  
**Roberta Mazzieri**  
Toward a human platform for the tumor-targeted IFN-alpha delivery by genetically modified monocytes  *abs# 42*

9:45 AM  
**Wen-Ting Liao**  
FOXC2 as prognostic factor and mediator of colorectal cancer progression  *abs# 43*

10:00 AM  
**Conor Lynch**  
Matrix metalloproteinase control of the metastatic prostate cancer bone-microenvironment  *abs# 44*

10:15 AM  
**Gert Van den Eynden**  
Identification and characterisation of histological growth patterns of colorectal cancer liver metastases: (potential) role of the micro-environment  *abs# 45*

**Morning Tea**  
10:30 AM - 11:00 AM  Boulevard Auditorium Foyer

**Symposium 9 – Organotropism**  
11:00 AM - 1:00 PM  Boulevard Auditorium
Chairs: Kazuyuki Itoh & Normand Pouliot

11:00 AM  
**Joan Massague (Paget-Ewing Award Recipient)**  
Latent metastasis seeds and niches  *abs# 46*

11:40 AM  
**Yibin Kang**  
Breast cancer bone metastasis — from molecular insights to novel therapeutics  *abs# 47*

12:10 PM  
**Richard Redvers**  
A functional in vivo shRNA screen for regulators of breast cancer metastasis  *abs# 48*

12:25 PM  
**Mitsuru Futakuchi**  
Malignant tumor growth in the bone microenvironment; crosstalk between TGFb and ERK/AKT/PTEN signaling pathway  *abs# 49*

12:40 PM  
**Anna Taubenberger**  
Investigating breast cancer cell colonization of bone using engineered microenvironments  *abs# 50*

**Lunch Break**  
1:00 PM - 2:00 PM  Boulevard Auditorium

**MRS General Meeting (MRS members only)**
**Symposium 10 - Pre-Metastatic Niche**

2:00 PM - 3:30 PM

**Boulevard Auditorium**

**Chairs:** Dan Welch & Andreas Möller

**2:00 PM**  
**David Lyden (Inaugural IJ Fidler Innovation Award Recipient)**  
Melanoma-derived exosomes educate bone marrow progenitor cells toward a pro-metastatic phenotype through MET *abs# 51*

**2:40 PM**  
**Janine Erler**  
Lysyl oxidase in pre-metastatic niche formation *abs# 52*

**3:00 PM**  
**Jaclyn Sceneay**  
Formation of an immunosuppressive pre-metastatic niche in breast cancer triggered by hypoxic tumour-derived factors *abs# 53*

**3:15 PM**  
**Hirotoshi Kikuchi**  
Mechanisms of colorectal liver metastasis and novel molecular targets *abs# 54*

**Afternoon Tea**

3:30 PM - 4:00 PM

**Boulevard Auditorium Foyer**

**Plenary 3**

4:00 PM - 5:00 PM

**Boulevard Auditorium**

**Chair:** Carrie Rinker-Schaeffer

**4:00 PM**  
**Isaiah (Josh) Fidler**  
The pivotal role of astrocytes in the biology and therapy of brain metastasis *abs# 55*

**Awards and Meeting Close**

5:00 PM - 5:30 PM