



Day 1 | 10 October 2011 (Monday)

- 12.00pm – 12.45pm **Registration**
- 12.45pm – 1.00pm **Welcome address**
Jean Paul Thiery, Convenor of TEMIA-V
Institute of Molecular and Cell Biology, A*STAR, Singapore

Session 1: Cell / Molecular Biology of EMT

Chair: Erik Thompson, St. Vincent's Institute, University of Melbourne, Australia

- 1.00pm – 1.30pm **Shigeo Ohno**, Yokohama City University, Japan
Epithelial cell polarity and the Par-aPKC complex
- 1.30pm – 2.00pm **Russ P. Carstens**, University of Pennsylvania, USA
Defining the complex role of alternative splicing in the EMT
- 2.00pm – 2.30pm **Yeesim Khew-Goodall**, Centre for Cancer Biology, SA Pathology, Australia
The miR-200 family of microRNAs in EMT
- 2.30pm – 2.50pm **Michael J. Murray**, The University of Melbourne, Australia
Short talk: Identification of new EMT factors in the fly: an RNAi screen using Wing Eversion
- 2.50pm – 3.10pm **Carole LaBonne**, Northwestern University, USA
Short talk: Coordinate regulation core EMT regulatory factors
- 3.10pm – 3.40pm *Afternoon Teabreak*

Session 2: Cell / Molecular Biology of EMT

Chair: David M. Epstein, OSI Pharmaceuticals, USA

- 3.40pm – 4.10pm **Hongquan Zhang**, Peking University Health Science Center, China
Role of an integrin-interacting protein in the regulation of EMT in cancer and fibrosis
- 4.10pm – 4.40pm **Masatoshi Takeichi**, Center for Developmental Biology, RIKEN Kobe, Japan
Adherens Junction Remodeling for Epithelial Migration and Closure
- 4.40pm – 5.10pm **Senthil K. Muthuswamy**, University of Toronto, Canada
Loss of cell polarity gene Par3 and metastasis
- 5.10pm – 5.30pm **Eric Theveneau**, University College London, United Kingdom
Short talk: Lipid signalling links EMT and in vivo collective invasion via turnover of the cell-cell adhesion complex
- 5.30pm – 5.50pm **Jianmin Zhang**, Roswell Park Cancer Institute, USA
Short talk: Pulsed expression of SNAI-1 implicates epigenetic silencing in epithelial-to-mesenchymal transition

Keynote Session: The EMBO Lecture & Betty Hay Oration

Chair: Jean Paul Thiery, Institute of Molecular and Cell Biology, A*STAR, Singapore

- 5.50pm – 6.50pm *Betty Hay Reception*
- 6.50pm – 7.50pm **M. Angela Nieto**, Instituto de Neurociencias (CSIC-UMH), Spain
The ins and outs of the EMT in health and disease
- 7.50pm – 9.20pm *Dinner & Poster session*



Day 2 | 11 October 2011 (Tuesday)

7.30am – 8.30am *Breakfast & dialogue session*

Session 3: Developmental EMT

Chair: Raymond Runyan, University of Arizona, USA

8.30am – 9.00am **Roberto Mayor**, University College London, United Kingdom
Collective cell migration and EMT in the neural crest cells

9.00am – 9.30am **Shinichi Aizawa**, Center for Developmental Biology, RIKEN Kobe, Japan
Post-transcriptional Regulation of Cadherin and Integrin by EPB41L5 in Epithelial-Mesenchymal Transition

9.30am – 9.50am **Ali Nawshad**, The University of Nebraska Medical Center, USA
Short talk: TGF β induced cell cycle arrest is the prerequisite for EMT in palate development

9.50am – 10.10am **Paul M. Kulesa**, Stowers Institute for Medical Research, USA
Short talk: The Developmental Program of the Neural Crest Influences Malignant Melanoma to Drive Plasticity and Invasion

10.10am – 10.30am **Alpha Yap**, Institute for Molecular Bioscience, Australia
Short talk: Dysregulation of the junctional actin cytoskeleton by HGF: a novel mechanism that acutely disrupts the epithelial zonula adherens

10.30am – 11.00am *Morning Teabreak*

Keynote Session: Translational EMT

Chair: Jean Paul Thiery, Institute of Molecular and Cell Biology, A*STAR, Singapore

11.00am – 11.40am **Jenny Chang**, Methodist Cancer Center, USA
Therapeutic Resistance of Tumour-initiating Cells in Breast Cancer

Session 4: Developmental EMT

Chair: Guojun Sheng, Center for Developmental Biology, RIKEN Kobe, Japan

11.40am – 12.10pm **José Luis de la Pompa**, Centro Nacional de Investigaciones Cardiovasculares (CNIC), Spain
Notch signaling in cardiac valve formation and disease

12.10pm – 12.40pm **David McClay**, Duke University, USA
The gene regulatory network controlling EMT in sea urchin embryos

12.40pm – 1.00pm **Kathy K.H. Svoboda**, Texas A&M Health Science Center, USA
Short talk: Ephrin reverse signaling promotes palate fusion through a PI3 Kinase dependent mechanism

1.00pm – 1.20pm **Yukiko Nakaya**, Center for Developmental Biology, RIKEN Kobe, Japan
Short talk: CLASP-mediated microtubule anchoring promotes the cell-basement membrane interaction through dystroglycan in gastrulation EMT

1.20pm – 1.40pm **Kyra Campbell**, Institute of Research in Biomedicine Barcelona, Spain
Short talk: Specific GATA factors act as conserved inducers of an epithelial-to-mesenchymal transition

1.40pm – 2.20pm TEMTIA Annual General Meeting (TEMTIA Members only)

1.40pm – 3.30pm *Lunch & Poster session*

Afternoon interaction and independent dinner



Day 3 | 12 October 2011 (Wednesday)

7.30am – 8.30am *Breakfast & dialogue session*

Session 5: Mathematical Modeling of EMT and Invasion

Chair: Donald Newgreen, The Murdoch Childrens Research Institute, Australia

- 8.30am – 9.00am **Dawn Walker**, University of Sheffield, United Kingdom
Computational Modelling of Cellular Communities – the effect of “Antisocial Cells”
- 9.00am – 9.30am **Muhammad H. Zaman**, Boston University, USA
Multi-scale computation of EMT and collective cell motion in complex environments
- 9.30am – 9.50am **Ian Overton**, MRC Human Genetics Unit Western General Hospital, United Kingdom
Short talk: Machine Learning Functional Networks to Infer EMT Genes
- 9.50am – 10.10am **Véronique Delmas**, Institut Curie, France
Short talk: Biological and mathematical modeling: melanoblast proliferation and dermal to epidermal migration.
- 10.10am – 10.30am **J. Guy Lyons**, University of Sydney, Australia
Short talk: A mathematical model to simulate cooperation between carcinoma cells that have undergone an EMT and those that remain well differentiated
- 10.30am – 11.00am *Morning Teabreak*

Session 6: Organ Fibrosis

Chair: Raghu Kalluri, Beth Israel Deaconess Medical Center, USA

- 11.00am – 11.30am **Valerie LeBleu**, Harvard Medical School/Beth Israel Deaconess Medical Center, USA
The origin of myofibroblasts and the contribution of EMT in fibrosis
- 11.30am – 12.00pm **Zea Borok**, University of Southern California, USA
EMT in pulmonary fibrosis: fact or fiction?
- 12.00pm – 12.20pm **Simon J. Conway**, Indiana University School of Medicine, USA
Short talk: Lineage mapping cardiac fibroblasts during both normal homeostatic and pathological transformed states
- 12.20pm – 12.40pm **Raffaele Strippoli**, Centro Nacional de Investigaciones Cardiovasculares (CNIC), Spain
Short talk: Inhibition of transforming growth factor-activated kinase-1 (TAK-1) blocks and reverses epithelial to mesenchymal transition of mesothelial cells
- 12.40pm – 1.00pm **Yue-Lei Chen**, Chinese Academy of Sciences (CAS), China
Short talk: Sorafenib Inhibits Transforming Growth Factor β 1-Mediated Epithelial-Mesenchymal Transition and Apoptosis in Mouse Hepatocytes
- 1.00pm – 2.30pm *Lunch & Poster session*



Session 7: Stem Cells and EMT

Chair: Pierre Savagner, Institut de Recherche en Cancérologie de Montpellier, France

- 2.30pm – 3.00pm **Alain Puisieux**, Centre de Recherche de Cancérologie de Lyon, France
Commitment to an EMT program catalyzes oncogene-induced cell transformation and initiates tumor initiation
- 3.00pm – 3.30pm **Gary L. Johnson**, University of North Carolina, USA
Histone H2A/H2B Acetylation Regulated by MAP3K4 and CBP Controls Epithelial-Mesenchymal Transition in Trophoblast Stem Cells
- 3.30pm – 4.00pm **Thomas Brabletz**, University of Freiburg, Germany
MicroRNAs, EMT and Cancer Stem Cells
- 4.00pm – 4.20pm **Aristidis Moustakas**, Uppsala University, Sweden
Short talk: Regulation of cancer stem cell potential by the EMT inducers HMGA2 and Snail1
- 4.20pm – 4.40pm **Abdelkader Selmi**, Institut de Recherche en Cancérologie de Montpellier, France
Short talk: Slug regulates stem/progenitor cell dynamics during mammary gland morphogenesis
- 4.40pm – 6.30pm *Afternoon Teabreak & Poster session*
- 6.30pm Depart to Banquet Venue (Transport is provided from conference venue)
- 7.00pm – 10.00pm *TEMTIA-V Banquet*



Day 4 | 13 October 2011 (Thursday)

Session 8: Cancer and EMT

Chair: Hongquan Zhang, Peking University Health Science Center, China

- 8.30am – 9.00am **Owen Sansom**, The Beatson Institute for Cancer Research, United Kingdom
Loss of p53 permits the development of invasive adenocarcinoma following Apc loss
- 9.00am – 9.30am **Raghu Kalluri**, Beth Israel Deaconess Medical Center, USA
Pericyte Depletion Results in Hypoxia Associated Epithelial to Mesenchymal Transition and Metastasis Mediated by Met Signalling Pathway
- 9.30am – 9.50am **Yibin Kang**, Princeton University, USA
Short talk: miR-200s enforces MET and influences Sec23a-dependent cancer cell secretome to promote metastatic colonization
- 9.50am – 10.10am **Sarah M. Dunlap**, The University of Texas, USA
Short talk: Obesity Promotes Epithelial-To-Mesenchymal Transition and Tumor Progression in a Syngeneic Mouse Model of Claudin-Low Breast Cancer
- 10.10am – 10.30am **Kern Rei Chng**, Genome Institute of Singapore, A*STAR, Singapore
Short talk: ERG, HDACs and EZH2 promote Epithelial Mesenchymal Transition in Prostate Cancers through Harmonizing AR Transcriptional Output
- 10.30am – 11.00am *Morning Teabreak*

Local Plenary

Chair: Jean Paul Thiery, Institute of Molecular and Cell Biology, A*STAR, Singapore

- 11.00am – 11.40am **Yoshiaki Ito**, Cancer Science Institute of Singapore, NUS, Singapore
Runx3 protects gastric epithelial cells against EMT

Session 9: Cancer and EMT

Chair: Elizabeth Williams, Monash University, Australia

- 11.40am – 12.10am **Klaus Pantel**, University Medical Center Hamburg-Eppendorf, Germany
Micrometastases, circulating tumour cells and cancer dormancy
- 12.10am – 12.30pm **Jihe Zhao**, University of Central Florida, USA
Short talk: KLF8 Regulation of EMT and Breast Cancer Metastasis
- 12.30pm – 12.50pm **David I. Bellovin**, Stanford University, USA
Short talk: A Transgenic Model of Twist1-Induced Metastasis is Associated with a Gene Signature that is Prognostic in Patients with Hepatocellular Carcinoma
- 12.50pm – 1.10pm **Ruby Yun-Ju Huang**, Cancer Science Institute of Singapore, NUS, Singapore
Short talk: Epithelial-mesenchymal gene expression signature defines clinically relevant subtypes in epithelial ovarian cancer
- 1.10pm – 1.30pm **Geert Berx**, Ghent University, Belgium
Short talk: Role of EMT-inducing Transcription Factors in Epithelial Cancer Progression
- 1.30pm – 3.00pm *Lunch & Poster session*



Session 10: Drug Discovery and EMT

Chair: M. Angela Nieto, Instituto de Neurociencias (CSIC-UMH), Spain

- 3.00pm – 3.30pm **David M. Epstein**, OSI Pharmaceuticals, USA
Epithelial-mesenchymal transition in context of cancer therapy
- 3.30pm – 4.00pm **Patrick Humbert**, Peter MacCallum Cancer Centre, Australia
Targeting Cell polarity and RAS/MAPK signalling in EMT and Epithelial tumour progression
- 4.00pm – 4.40pm **Sir David Lane**, p53 Laboratory, A*STAR, Singapore
New antibodies to cMet
- 4.40pm – 5.00pm **Closing remarks & Award presentation ceremony**
Erik W. Thompson, Co-convenor of TEMTIA-V
St. Vincent's Institute, University of Melbourne, Australia