

Record of the 3rd EMT Meeting ~ Scientific Program

Epithelial-Mesenchymal Transition

10-12 September, 2007, Larischa Palace, Cracow, Poland

As an EMBO Workshop, co-organized by TEMTIA and Marie-Curie

Epiplastcarcinoma RTN network

Conference Poster: [PDF](#)

Conference website: [EMBO Workshops](#)

Co-chairs:

Pierre Savagner

Aristides Moustakis

Antonio Garcia de Herreros

Amparo Cano

International Scientific Committee:

Shoukat Dedhar Canada

Raymond Runyan USA

Raghu Kalluri USA

Jean-Paul Thiery Singapore

Suresh Mohla USA

Kristin Verschueren Belgium

Donald Newgreen Australia

Robert Weinberg USA

Angela Nieto Spain

The **Poster abstracts** may be accessed [here...](#)

Monday 10th September, 2007

8:00 AM Registration

8:30 AM - Session I EMT and Development (I) Chair: Raghu Kalluri

10:30 AM Larischa Palace, Conference Room

THE INAUGURAL ELIZABETH HAY LECTURE: Mechanochemistry of cell adhesion in epithelial cell plasticity

Thiery, JP*, Dufour, S#, Chu, HS*, Pincet, F§, Eder, O#, Thomas, W#, Martinez-Rico, C# and Nassoy, P+

*Systems Biology, Institute of Molecular and Cell Biology, 61 Biopolis Drive (Proteos), Singapore, Singapore 138673, Singapore; #CNRS Institut Curie Paris; § Ecole Normale

Superieure Paris

EMT-related and EMT-independent regulation of cell adhesion and movement by Snail

Nieto, MA Instituto de Neurociencias de Alicante, CSIC-UMH Apartado 18. San Juan de Alicante. Spain.

The polarity regulators Scribble and DLG control epithelial migration during development, wound healing and tumourigenesis

Lukas E. Dow*, Jeffrey S. Kauffman*, Ryan Galea*, Jacinta Caddy[^], Stephen M. Jane[^], Sarah M. Russell[#] and **Patrick O. Humbert***

*Cell Cycle & Cancer Genetics Laboratory, [#]Immune Signalling Laboratory, Peter MacCallum Cancer Centre, Melbourne, Australia. [^]Rotary Bone Marrow Research Laboratories, Parkville, Australia.

11:00 AM - Session II EMT and Development (II) Chair: Raghu Kalluri
12:30 PM Larischa Palace, Conference Room

Gene regulatory network states that control EMT.

McClay, D Developmental Biology, Duke University, Box 90338, Durham, NC 27708, USA;

Conserved and novel features of the NFkB-Slug-Twist network involved in Xenopus mesoderm formation and EMT

Klymkowsky, M Molecular, Cellular & Developmental Biology, University of Colorado, Boulder, 347 UCB, Boulder, CO 80309-0347, USA

Photoactivatable GFP resolves drosophila mesoderm migration behaviour

Murray, MJ and Saint, R Centre for the Molecular Genetics of Development, Research School of Biological Sciences, The Australian National University, Building 46, Acton, Canberra, ACT 0200, Australia

12:30 PM - 2:00 PM Lunch and Poster viewing *Wierzynek Restaurant and Conference Foyer*
Posters [here...](#)

2:00 PM - Session Cell signalling and EMT (I) Chair: Angela Nieto

3:50 PM III

Larisha Palace, Conference Room

Smad proteins of the TGF β pathway instruct a network of transcription

factors for the establishment of EMT

Moustakas, A, Thuault, S, Vanlandewijck, M, Tan, E-J, Raja, E and Heldin, C-H Ludwig Institute for Cancer Research, Box 595, BioMedical Center, Uppsala University, Uppsala SE-751 24, Sweden.

Searching for novel regulators of EMT

Wu, MY, Daly, A and **Hill, CS** Developmental Signalling Laboratory, London Research Institute, Lincoln's Inn Fields Laboratories, 44 Lincoln's Inn Fields, London, WC2A 3PX, UK

PDGF Links TGF- β Signaling to Nuclear β -Catenin Accumulation in Hepatocellular Carcinoma Progression

Fischer, ANM, Fuchs, E, Mikula, M, Huber, W, *Beug, H and **Mikulits, W**

Department of Medicine I, Division: Institute of Cancer Research, Medical University of Vienna, Borschke-Gasse 8A, Vienna, 1090, Austria; Research Institute of Molecular Pathology, Dr. Bohr-Gasse 7, A-1030 Vienna, Austria

3:30 PM 71 The Transcription Factor Snail Represses Crumbs3 Expression and Disrupts Apico-Basal Polarity Complexes

Complexes

Whiteman, EL, Liu, Chia-Jen, Fearon, ER and Margolis, B Internal Medicine, University of Michigan, 109 Zina Pitcher Place, 1698 Biomedical Science Research Building, Ann Arbor, MI 48105, USA

3:50 PM

Afternoon Tea *Conference Room Foyer, Larisha Palace*

4:30 PM -
6:00 PM

Session
IV

Cell signalling and EMT (II): Chair: Angela Nieto
Larisha Palace, Conference Room

The Par/Tiam1 polarity complex controls epithelial and mesenchymal properties of epithelial cells.

Collard, J Division of Cell Biology, The Netherlands Cancer Institute, Amsterdam, 1066 CX, The Netherlands
Regulation of EMT and Wnt signaling by Integrin-

Linked Kinase

Dedhar, S Biochemistry and Molecular Biology,
University of British Columbia/BC Cancer Research
Centre, Vancouver, BC V5Z1L3, Canada

**EMT and Oncogenic Signaling by TGF- β in Mammary
Epithelial Cells**

Schiemann, WP Department of Pharmacology, MS8303,
University of Colorado Health Sciences Center, Aurora,
CO 80045, USA

6:00 PM POSTERS / EpiPlast Carcinoma AGM

7:00 PM Welcome Reception Main Hall, Larischa Palace

Tuesday 11th September, 2007

8:30 AM - 10:00 AM **Session VEMT and Cancer (I)** Chair: Antonio Garcia de Herreros
Larischa Palace, Conference Room

**Invasive growth: a MET-driven genetic programme for
cancer and stem cells**

Comoglio, P IRCC, Institute for Cancer Research and
Treatment, University of Torino School of Medicine,
Candiolo, Torino, 10060, Italy

**EMT in the neural crest model: Does functional
manipulation of adhesion and cytoskeletal systems
reset the sensitivity to pro-EMT growth factors?**

Don Newgreen¹, Dong Zhang¹, Honor Hugo¹, Peter
Farlie², Sonja McKeown¹ ¹Embryology Laboratory, and ²
Craniofacial Sciences Laboratory, Murdoch Childrens
Research Institute, The Royal Children's Hospital,
Parkville, 3052, Australia.

**The microRNA-200 family regulates the E-cadherin
repressors, ZEB1/deltaEF-1 and SIP1/ZEB2 and EMT**

Philip A Gregory, Andrew G Bert, Emily L Paterson, Anna
Tsykin, Mathew A Vadas, Yeesim Khew-Goodall and
Gregory J Goodall Hanson Institute, Institute of Medical
and Veterinary Science, Adelaide,
South Australia, Australia, 5000

10:30 AM - 11:30 AM **Debate: EMT-MET Cycles in tumours** Larischa Palace,
Conference Room

**Amparo Cano, Gerhard Christofori, Pierre Savagner
and
Erik (Rik) Thompson**

11:30 AM - Session EMT and Cancer (II) Chair: Antonio Garcia de Herreros
12:40 PM VI Larischa Palace, Conference Room

Distinct mechanisms of tumor invasion and metastasis

Lehembre, F, Wicki, A, Yilmaz, M, Grotegut, S, Kren, A, Fantozzi, A, Achermann, C and **Christofori, G** Institute of Biochemistry and Genetics, University of Basel, CH - 4058, Switzerland

Gene signatures defining Epithelial Mesenchymal Transition and stem cell lineage are a defining characteristic of human breast cancer subtypes

Blick, T[#], Widodo, E. ^{^,§}, Waltham, M^{#,^}, Hugo, H^{*}, Newgreen, DF^{*}, Lenburg, ME^{##} and **Thompson, EW^{#,^}** [#]St. Vincent's Institute and [^]University of Melbourne Dept. of Surgery, St. Vincent's Hospital, Australia; [§] Faculty of Medicine, Brawijaya University, East Java, Indonesia; ^{*}Embryology Laboratory, Murdoch Children's Research Institute, Parkville, Australia; ^{##}Department of Genetics and Genomics, Boston University School of Medicine, Boston, MA 02118, USA; ^{**}Life Sciences Division, Lawrence Berkeley National Laboratory, Berkeley, CA, USA

12:40 PM - 2:15 PM Lunch/ and Poster viewing *Wierzynek Restaurant and Conference Foyer*

2:15 PM - Session EMT and Cancer (II) Chair: John Collard
3:45 PM VII Larischa Palace, Conference Room

Understanding the role of Snail factors and other EMT regulators in tumour progression

Cano, A Biochemistry, Universidad Autonoma de Madrid, Instituto de Investigaciones Biomedicas "Alberto Sols" CSIC-UAM, Madrid,, Spain

Malignant progression in colorectal cancer: EMT, â-Catenin & cancer stem cells

Brabletz, T Molecular Oncology, Surgery, Univ. of Freiburg, Germany

The transcription factor ZEB1 promotes tumor progression by repressing master regulators of epithelial differentiation

Aigner, A, Descovich, L, Sultan, A, Brabletz, T^{*} and Foisner, R and **Eger, A**

Max F. Perutz Laboratories, Department of Medical Biochemistry, Medical University Vienna, Austria;^{*}Department of Visceral and General Surgery, Albert-Ludwigs-University, Freiburg, Germany

4:15 PM - Session EMT and Cancer (II) Chair: John Collard

6:05 PM

VIII

Larisha Palace, Conference Room

Cell motility at the invasive front of tumors: The role of novel Wnt/ β -catenin target genes

Ben-Ze'ev, A Molecular Cell Biology, Weizmann Institute of Science, Hertzl Street, Rehovot, 76100, ISRAEL

PDGF-dependent cancer fibroblasts and pericytes as novel cancer drug targets

Östman, A Molecular Oncology and Cancer Therapies, Karolinska Institute, Department of Oncology, Stockholm, Sweden

β -Arrestin-1 as messenger of endothelin A receptor-driven β -catenin signaling pathway and epithelial to mesenchymal transition: implication for an effective combined therapy in ovarian cancer

* **Rosano', Laura**, * Cianfrocca, Roberta, * Masi, Stefano, * Spinella, Francesca, * Di Castro, Valeriana, *** Nicotra, Maria Rita, ** Natali, Pier Giorgio and * Bagnato, Anna
*Laboratories of Molecular Pathology and Ultrastructure, and **Immunology, Regina Elena Cancer Institute, Rome, Italy;***Molecular Biology and Pathology Institute, National Research Council, Rome, Italy.

LOXL2 as a player in epidermal homeostasis and early marker of squamous cell carcinomas

Peinado, H., Moreno-Bueno, G, Santos, V., Perez-Gomez, E., Hardisson, D.*; De Diego J.I.*; Quintanilla, M., Portillo, F. and Cano, A. Departamento de Bioquímica. Instituto de Investigaciones Biomedicas Alberto Sols Consejo Superior de Investigaciones Cientificas- Universidad Autonoma de Madrid, Spain. *Hospital Universitario de la Paz. 28029 Madrid. Spain

6:05 PM

POSTERS / TEMTIA AGM

7:00 PM

Conference Dinner Folwark Zalesie

Wednesday 12th September, 2007

8:30 AM -

Session

Physiological aspects of EMT Chair: Aristidis Moustakas

10:00 AM

IX

Larisha Palace, Conference Room

The Effects of BMP-7 on EndMT and Cardiac Fibrosis

Kalluri, R Center for Matrix Biology, Beth Israel Hospital/Harvard Medical School, Boston, MA 2215, USA

Slug regulates early epithelial differentiation by maintaining a metastable phenotype

Savagner, P U868 INSERM Centre de Recherche en Cancerologie, CRLC Val d'Aurelle-Paul Lamarque, Montpellier, 34298, France

Gene Regulation Network Analysis Suggests

Epigenetic Mechanism for Silencing of TIMP3 in EMT

Zavadil, J*, Dickman, K#, Bitzer, Mß, Jelinek, J,^, Grollman, AP# and
Blumenberg, M** *Pathology & **Dermatology, NYU
School of Medicine, New York, NY; #Pharmacology,
SUNY at Stony Brook, NY; ßMedicine, Albert Einstein
College of Medicine, Bronx, NY.; ^Leukemia Department,
M.D. Anderson Cancer Center, Houston, TX.

10:30 AM - Debate: EMT in development and physiology
11:30 AM Michael Klymkowsky, Raghu Kalluri and Angela Nieto
Larisha Palace, Conference Room

11:30 AM - Session XPhysiological aspects of EMT Chair: Aristidis Moustaka
12:45 PM Larisha Palace, Conference Room

**Regulation of EMT in the atrioventricular canal of the
developing heart**

Runyan, RB, Mercado-Pimentel, ME, Tavares, ALP,
Hubbard, AD, Willingham, CC, Maring, KM, Zumbusch, TB
and Schnurr, DS
Cell Biology and Anatomy, University of Arizona, Tucson,
Arizona USA

**Delineation of GTPase pathways in EMT: A role for
every Rho?**

Hutchison, N, Hendry, BM and **Sharpe, CC**
Renal Medicine, King's College London, UK;

**New concepts in desmosomal adhesion and their
implications for EMT**

Garrod DR, Kimura TE, Nie Z and Merritt AJ
Faculty of Life Sciences, University of Manchester, UK

12:45 PM - 2:15 PM Lunch and **Poster Viewing** *Conference Room Foyer,
Larisha Palace*

2:15 PM - Session Cell signalling and EMT (II) Chair: Paolo Comoglio
4:00 PM XI Larisha Palace, Conference Room

**The role of IGF/AKT pathways in the induction of
epithelium mesenchyme transition**

Lionel LARUE Institut Curie, Bat 110, Orsay, Paris,
France.

**The adhesion junction protein E-cadherin plays a
central role in the process of epithelial**

morphogenesis Garcia de Herreros, A Unitat de
Biologia Cel·lular i Molecular, Institut Municipal
d'Investigacio Medica, Universitat Pompeu Fabra,
Barcelona, Catalunya 08003, Spain

**Functional analysis of EMT-inducing
transcription factors in invasion and metastasis**

De Craene, B1,2, Vandewalle, C1,2, Raspé, E 1,2 , Seflek
Unay, Z1,2, Van Roy, F1,2, **Berx, G**1,2 Department of
Molecular Biomedical Research, VIB and Ghent
University, Ghent (Zwijnaarde), Belgium

4:00 PM Close and Announcement of 2009 Meeting