

INAUGURAL EMT PROGRAM, Port Douglas, 2003

**Meeting held at Rydges Resort, Port Douglas, Far North
Queensland, Australia**

October 5-9, 2003

Convenors: Dr Donald Newgreen and A/Prof Erik (Rik) Thompson

[Special Edition of Cells Tissues Organs](#)

Sunday 5th October, 2003

8:00 am - 4:00 pm OPTIONAL tours and also fishing, golf....

2:00 pm - 5:00 pm Registration open

Conference Room

5:15 pm Official opening of the Boden International EMT Conference:

Chair: Don Newgreen

5:30 pm Session 1 Chair: Hans-Werner Denker

Keynote Lecture 1: Elizabeth Hay, Harvard Medical School

Transcriptional controls for epithelial-mesenchymal and mesenchymal-epithelial transition

6:30 pm: Welcome Reception Mundies

7:45 pm: Dinner options:

At Rydges: Mundies Restaurant, Rydges Reef Resort;

Shuttle transport required: Macrossans, Sheraton Mirage (Macrossans require dress code of Elegant resort wear - no jacket required); on the Inlet, Port Douglas;

Fiorelli Bistro & Bar, Port Douglas;

Hi-Tide Seafood Restaurant, Port Douglas

Monday 6th October, 2003

8:00 AM - 10:00 AM **Session 2: EMT in Development** Conference Room **Chair: Don Newgreen**

8:00 AM **2** **Regulation of epithelial-mesenchymal cell transformation in the embryonic chick heart.**
Runyan, RB, Shoemaker, S, Person, A, Berkompas, J, Scholz, M, Mercado-Pimental, M, Doyle, SE and Stanislaw, S
Cell Biology and Anatomy, University of Arizona, Tucson, USA

8:30 AM **3** **Neural Epithelial-Mesenchymal Transitions: Many ways to the same end.**
Newgreen, D, Lewis, S, Minichiello, J and Farlie, P The Embryology Laboratory, The Murdoch Childrens Research Institute, Melbourne, Australia

8:50 AM **4** **Intravital imaging of neural crest cells**
Kulesa, PM Imaging, Stowers Institute for Medical Research, Kansas City, USA

9:20 AM **5** **Regulation of neural crest formation by Sox2, Slug and BMP4**
Wakamatsu, Y, Endo, Y*, Sakai, D* and Osumi, N* Department of Developmental Neurobiology, Tohoku University, Graduate School of Medicine, Sendai, Japan; Division of Developmental Neuroscience Center for Translational and Advanced Animal Research on Human Diseases Tohoku University, Graduate School of Medicine

9:40 AM **6** **Transforming Growth Factor- β 3 (TGF β 3) upregulates Lymphoid Enhancing Factor-1 (LEF-1) gene to induce epithelial mesenchymal transformation (EMT) during mouse palate development**
Nawshad, A and Hay, ED Cell Biology, Harvard Medical School, Boston, MA, USA

10:00 AM - 10:30 AM Coffee Conference Terrace

10:30 AM - 12:30 PM **Session 3: EMT in Cancer** Conference Room **Chair: Erik (Rik) Thompson**

10:30 AM **7** **Molecules in epithelial-mesenchymal transitions**
Walter Birchmeier
Cell Biology, Max-Delbrück-Centrum für Molekulare Medizin, Berlin-Buch, Germany

11:00 AM **8** **Epithelial-mesenchymal transitions in human breast cancer**
Petersen, OW, Nielsen HL, Wissing M, Villadsen R, Gudjonsson T, Rønnov-Jessen L and Bissell MJ* Medical Anatomy, The Panum Institute, University of Copenhagen, Copenhagen, Denmark; Ernest Orlando Lawrence Berkeley Laboratory, Life Sciences Division, Berkeley, USA

11:30 AM **9** **Epithelial-mesenchymal transition regulators in primary gastrointestinal cancer**
Rosivatz, E, Hoefler, H and Becker, KF Pathology, Technical University Munich, Muenchen, Germany; Pathology, GSF-National Research Center for Environment and Health, Neuherberg,

Germany

- 11:50 AM 10 EMT-associated matrix metalloproteinase gene expression.**
Lyons, JG, Min, D, Zheng, G, Kuan, L, Shoebridge, G and Martorana, AM Kanematsu Laboratories, Sydney Cancer Centre, and Faculty of Medicine, University of Sydney
- 12:10 PM 11 Slug and Snail transcription factors are positively correlated to E-Cadherin expression**
Magnino, F, Come, C, Bibeau, F, Theillet, C and Savagner, P
E0229 INSERM Bat Recherche Cancerologie, CRLC Val d'Aurelle-Paull Lamarque, Montpellier, France
- 12:30 PM - 1:30 PM Lunch Mundies
- 1:30 PM - 3:30 PM Session 4: EMT in Pathology Conference Room Chair: Youhua Liu**
- 1:30 PM 12 Mechanisms of epithelial-mesenchymal transition**
Neilson, E Medicine, Vanderbilt University School of Medicine, Nashville, U.S.A.
- 2:00 PM 13 Epithelial-mesenchymal transition during TGF β -induced cataract - a role for integrins and integrin-linked kinase?**
de longh, RU 1,3 Wederell, ED 2 and McAvoy, JW 2,3 - 1 Anatomy & Cell Biology, University of Melbourne, Parkville VIC 3010 2 Anatomy & Histology, University of Sydney, NSW 2006 3 Save Sight Institute, University of Sydney NSW 2006
- 2:30 PM 14 Epithelial to mesenchymal transition in renal fibrogenesis: Pathologic significance and therapeutic intervention**
Liu, Y Department of Pathology, University of Pittsburgh, Pittsburgh, USA
- 3:00 PM 15 BMP-7 is an endogenous regulator of TGF- β 1 induced EMT and reverses chronic renal injury**
Kalluri, R Center for Matrix Biology, Beth Israel Hospital/Harvard Medical School, Boston, USA
- 3:30 PM - 4:30 PM Session 5: EMT - Associated Signals Conference Room Chair: Hans-Werner Denker (includes Afternoon tea)**
- 3:30 PM 16 Disorganization of E-cadherin/ β -catenin complexes regulates vimentin expression during tumor invasion-associated EMT.**
Christine Gilles, Myriam Polette*, Mélanie Mestdagt, Béatrice Nawrocki-Raby*, Philippe Birembaut* and Jean-Michel Foidart
University of Liège, Laboratory of Tumor and Developmental Biology, Liège, Belgium; *Unité I. N. S. E. R. M. U.514, Laboratoire Pol Bouin, I. F. R. 53, C.H.U. Maison Blanche, Reims, France.
- 3:45 PM 17 APC and β -catenin nuclear transport**
Henderson, BR Westmead Millennium Institute, University of Sydney, Sydney, Australia; Westmead Institute for Cancer Research University of Sydney Westmead Millennium Institute Darcy Road (PO Box 412) Westmead NSW 2145 Australia
- 4:00 PM 18 Flt-1 (VEGFR-1) - dependent survival characterizes the epithelial-mesenchymal transition of colonic organoids: implications for tumor progression**

Bates, RC and Mercurio, AM Dept of Pathology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, USA

4:15 PM 19 Modulation of the epithelial phenotype by manipulation of FGFR-2 alternative splicing

Choi, JKW, Gibbins, JR and Hunter, N Pathology and IDR, University of Sydney and Westmead Hospital, Sydney, Australia; Department of Pathology, The University of Sydney Institute of Dental Research, Westmead Millenium Institute, Westmead

4:40 PM - 5:30 PM Session 6: Keynote Lecture 2: Professor Mary Hendrix, Iowa Chair: Erik (Rik) Thompson

4:30 PM 20 The remarkable plasticity of aggressive tumor cells influenced by the microenvironment

Hendrix, MJC, Seftor, EA, Hess, A, Lee, L, Meltzer, PS*, Stetler-Stevenson, WG*, Quaranta, V* and Seftor, REB Anatomy and Cell Biology, The University of Iowa, Iowa City, USA; Meltzer, PS - NHGRI, National Institutes of Health, Bethesda, MD; Stetler-Stevenson, WG - NCI, National Institutes of Health, Bethesda, MD; Quaranta, V - Scripps Research Institute, La Jolla, CA

5:30 PM - 7:00 PM Session: Posters & Wine Trade Secrets™ Conference Room

Tuesday 7th October, 2003

8:30 AM - 10:30 AM **Session 7: Molecules and networks in EMT #1: Regulation of cell-cell contact and cell movement** Conference Room **Chair: Masatoshi Takeishi**

8:30 AM **63 Regulation of cell assembly pattern by catenin-cytoskeletal interactions**
Takeichi, M and Ichii, T RIKEN Center for Developmental Biology, Kobe 650-0047, and Graduate School of Biostudies, Kyoto University, Kyoto 606-8502, JAPAN

9:00 AM **64 Genetic analysis of epithelial cell migration in Drosophila**
Denise J. Montell, Jocelyn McDonald, Elaine Pinheiro, Debra Silver, Erika Geisbrecht, Xuejiao Wang and Tina Bridges
Biological Chemistry, Johns Hopkins Medical School, Baltimore, USA

9:30 AM **65 Epithelial repair and morphogenesis in the embryo**
Paul Martin Anatomy and Developmental Biology, UCL, London, UK

10:00 AM **66 E-cadherin directed actin assembly is regulated by both the Arp2/3 complex and myosins: implications for cell motility.**
Shewan, AM, Madduguda, M, Verma, S, Stehbens, S* and Yap, A* Institute for Molecular Bioscience, University of Queensland, Queensland, Australia and the Department of Physiology and Pharmacology*, University of Queensland, Queensland, Australia.

10:15 AM **67 Tyrosine phosphatase PEZ regulates beta-catenin phosphorylation, cell migration and epithelial-mesenchymal transition**
Wadham, C, Gamble, JR, Vadas, MA and Khew-Goodall, Y
Hanson Institute, Adelaide, Australia

10:30 AM - 11:00 AM Coffee Conference Terrace

11:00 AM - 1:00 PM **Session 8: Molecules and networks in EMT #2: Transcriptional repression of E-cadherin expression** Conference Room **Chair: Shoukhat Dedhar**

11:00 AM **68 E-cadherin and β -catenin in mouse development**
Kemler, R. Molecular Embryology, Max-Planck-Institute for Immunobiology, Freiburg, Germany

11:30 AM **69 Integrin Linked Kinase suppresses E-Cadherin expression via MTA-3 and Snail**
Shoukat Dedhar Biochemistry and Molecular Biology, University of British Columbia/Jack Bell Research Centre, Vancouver, Canada

12:00 PM **70 A critical role for CtBP in EMT**
Grooteclaes, M and Frisch, SM The Burnham Institute, La Jolla, USA

12:30 PM **71 An essential role of Twist and Twist-induced epithelial-mesenchymal transition in breast cancer metastasis**
Yang, J *, Mani, SA *, Donaher, JL *, Ramaswamy, S #,

Richardson, A #, Gitelman, I &, Loda, M # and Weinberg, RA * *
Whitehead Institute for Biomedical Research, 9 Cambridge Center,
Cambridge, MA 02139, U.S.A. # Department of Medical Oncology,
Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA
02115 & Department of Molecular Genetics & Development, Ben
Gurion University of the Negev, Beer Sheva, 84105, Israel

12:45 PM 72 Functional analysis of SIP1 regulating epithelial cell plasticity

Berx, G, Comijn, J, De Craene, B, Strumane, K and Van Roy, F*
Department of Molecular Biomedical Research, Unit of Molecular
and Cellular Oncology and Molecular Cell Biology Unit*, VIB and
Ghent University, Ledeganckstraat 35, B-9000 Ghent, Belgium

1:00 PM - 2:00 Lunch Conference Terrace
PM

**2:00 PM - 4:00 Session 9: Molecules and networks in EMT #3: Signalling by
PM kinases and small G proteins** Conference Room **Chair: Jean-
Paul Thiery**

2:00 PM 73 Rac signaling in tumor formation and progression

Collard, JG Division of Cell Biology, The Netherlands Cancer
Institute, Amsterdam, The Netherlands

**2:30 PM 74 Src and integrin determine epithelial cell plasticity via myosin
activity**

Frame, MC, Avizienyte, E, Fincham, VJ and Brunton, VG Beatson
Institute for Cancer Research, CRUK Beatson Labs, Glasgow, UK

**3:00 PM 75 Roles of small GTPases Rac1 and Cdc42 in mesenchymal-
epithelial transition**

Nakaya, Y and Takahashi, Y Center for Developmental Biology,
RIKEN, Kobe, Japan; Dept. Biol. Sci., NAIST, Nara, Japan

**3:15 PM 76 Induction of EMT in a mammary epithelial cell-line by
expression of activated**

M-Ras involves a novel signalling mechanism not dependent on
Raf-1 or Ral-GDS

Ward, K, Zhang, K-X, Schubert, P, Wilson, G, *Somasiri, A,
*Roskelly, C and Schrader, JW The Biomedical Research Centre,
University of British Columbia *Dept. of Anatomy, University of
British Columbia

**3:30 PM 77 Morphologic and Vimentin expression changes induced by
modulation of RhoC-GTPase activity in melanoma cells in
culture**

Wu, M*, Wu, ZF*, Kleer, C#, Bao, LW*, Pan, Q*, Soengas, M^ and
Merajver, SD* Departments of Internal Medicine*, Pathology# and
Dermatology^, University of Michigan, Ann Arbor, MI 48109

**3:45 PM 78 Developmental control of E-Cadherin activity by Rac
promotes remodeling of tracheal tubules in Drosophila**

Hayashi, S. , Chihara, T. and Kato., K. Morphogenetic Signaling
Group, Riken Center for Developmental Biology, Kobe, Japan

4:00-5:00 Session 10: Opinions - Discussion Conference Room (includes
Afternoon Tea)

Can EMT be defined by specific signal transduction paths?

Moderator: Don Newgreen (includes Afternoon tea)

**Is the initiation of carcinoma invasion always an
EMT? Moderator: Rik Thompson**

5:00 PM - 5:30 Meet & Greet
PM

**5:00 PM - 6:30 Trade Secrets™ & Posters Conference Terrace
PM**

6:45 PM Buses depart for Habitat after Dark Meet at Reception

7:30 PM - Conference Dinner Habitat After dark

10:30 PM

Wednesday 8th October, 2003

- 9:00 AM - 10:00 AM **Session 11: Keynote Lecture 3:** Conference Room
Professor Jean-Paul Thiery, Institut Curie Paris Chair: Don Newgreen
- 9:00 AM 79 **EMT : Development, cancer and soft matter physics**
Thiery JP, Dufour S, Chu YS, Thomas W, Billottet C and Jouanneau J Cell Biology, Institut Curie-UMR144, Paris, France, CNRS UMR 144 Institut Curie, 26 rue d'Ulm 75248 Paris Cedex 05, France.
- 10:00 AM - 10:30 AM Coffee Conference Terrace
- 10:30 AM - 12:30 PM **Session 12: Growth factor, pharmacologic and genetic manipulation of EMT**
Chair: Angela Nieto
- 10:30 AM 80 **The Snail gene family at the crossroads of the epithelial-mesenchymal transitions**
Vega, S, Ocaña, O, Morales, AV, Blanco, MJ, del Barrio, MG and Nieto, MA Instituto Cajal, CSIC. Doctor Arce, 37 28002 Madrid.
- 11:00 AM 81 **Genes that control cell migration during mouse embryogenesis**
Carmen Birchmeier Developmental Biology/Signal Transduction, MDC Max-Delbrück-Centrum für Molekulare Medizin, Berlin, Germany
- 11:30 AM 82 **TBA** Balmain, A Comprehensive Cancer Center, University of California-San Francisco, San Francisco, USA
- 12:00 PM 83 **Temporal and activation magnitude requirements of MAPKs in cooperation with TGF- β signaling during epithelial-to-mesenchymal transition**
Wang, B, Stenvers, K, Burgess, AW and Zhu, H-J Ludwig Institute for Cancer Research, Melbourne, Australia
- 12:15 PM 84 **TGF- β signaling promotes EMT in vitro and metastasis in vivo**
Grunert S, Sommer A and Beug H Research Institute for Molecular Pathology, Vienna, Austria
- 12:30 PM - 1:30 PM Lunch Mundies
- 1:30 PM - 3:30 PM **Session 13: Microenvironmental influences in EMT** Conference Room
Chair: Mina Bissell
- 1:30 PM 85 **The role of metalloproteinases (MMPs) in EMT**
Bissell, M Cell and Molecular Biology, Lawrence Berkeley National Laboratory, Berkeley, USA
- 2:00 PM 86 **Stimulation of tumor progression via TGF β 1 effects on tumor cell EMT and tumor microenvironment**
Rosemary J. Akhurst, Allan Balmain, Margaret McKinnon, Kyeong Sook Lee, Martin Oft, Ellen Poon and Yang Tang Cancer Research Institute, UCSF, San Francisco, USA

2:30 PM 87 Integrin-mediated signal transduction in transgenic mouse models of human breast cancer.

William J. Muller¹, Ulrich Mueller², Sandra Blaess², Shoukat Dedhar³ and Robert D. Cardiff⁴ ¹Molecular Oncology Group; McGill University, Montreal, H3A1A1, Quebec, Canada ²Friedrich Miescher Institute, CH 4058 Basel, Switzerland; ³British Columbia Cancer Agency, Jack Bell Research Centre, Vancouver V6H 3Z6, British Columbia, Canada; ⁴Center for Comparative Medicine, University of California at Davis, Davis, California 95616, USA; ⁵Genetics Unit, Shriners Hospital for Children, Montreal H3G 1A6, Quebec, Canada ⁶Departments of Medical Sciences and Pathology and Molecular Medicine, McMaster University, Hamilton L8S 4K1, Ontario, Canada

2:50 PM 88 Elevated hyaluronan production induces mesenchymal and transformed properties in epithelial cells

Toole, BP, Zoltan-Jones A, Marieb, E, Misra, S and Ghatak, S Anatomy and Cell Biology, Tufts University, Boston, USA

3:10 PM 89 A transient, EMT-like dedifferentiation during invasion and metastasis formation of colorectal carcinoma

Thomas Brabletz, Falk Hlubek, Simone Spaderna, Jochen Haag, Jean-Noel Freund, Andreas Jung and Thomas Kirchner Molecular Pathology, University of Erlangen, Erlangen, Germany

**3:30 PM - 5:00 PM Session 14: Directions and opportunities in EMT research
Chair: Suresh Mohla** Conference Room (includes Afternoon Tea)

3:30 PM 90 Mutations in the apical-basal cell polarity genes, SCRIBBLE or CRUMBS, cooperate with activated RAS in neoplastic tumour progression in the drosophila model system.

Brumby, A, Goulding K and Richardson, H Research, Peter MacCallum Cancer Centre, Melbourne, Australia

3:45 PM 91 EMT and invasive carcinoma: New directions for understanding carcinoma migration and survival

Mercurio, AM, Bates, RC and Bellovin, DI Pathology, Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, USA; Division of Cancer Biology and Angiogenesis, Department of Pathology, Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA 02215

4:15 PM 92 Common threads in EMT Mina Bissell, Berkeley and Angela Nieto, Madrid

4:50 PM - 5:10 PM Conference close Chair: Erik (Rik) Thompson

Poster Program

21 Novel CD44 splice variants associated with alternative splicing of FGFR-2 and cell phenotype

Choi, JKW, Gibbins, JR, Lyons, JG and Hunter, N

Pathology and IDR, University of Sydney and Westmead Hospital, Sydney, Australia, Department of Pathology, The University of Sydney, Institute of Dental Research, Westmead Millennium Institute, Westmead; Kanematsu Laboratories, Royal Prince Alfred Hospital, Camperdown

22 Prevention of dispersion of the medial epithelial seam but not breakdown of the basal lamina during palatal fusion. The effect of papaverine in organ culture.

Tazawa, YM, Gibbins, JR, Simonian, M, Manthey, A and Hunter, N Pathology and IDR, University of Sydney and Westmead Hospital, Sydney, Australia, Department of Pathology, The University of Sydney, Institute of Dental Research, Westmead Millennium Institute, Westmead

23 The 67 kDa Laminin Receptor: Investigating its functional role in EMT in Development and Cancer

Lewis, SL, Farlie, PG and Newgreen, DF

Embryology, Murdoch Childrens Research Institute, Melbourne, Australia; Murdoch Childrens Research Institute, Royal Children's Hospital, Flemington Road, Parkville, Victoria, Australia, 3052.

24 APC recruits β -catenin, EB1 and DLG to microtubule filaments and membrane protrusions

Leung, Louie and Henderson, BR

Westmead Millennium Institute, University of Sydney, Sydney, Australia

25 Differential regulation of E-Cadherin and its repressors Slug and Snail in the PMC42 model of epithelio-mesenchymal transition (EMT) in human breast carcinoma.

Thompson, E.W.*, Bills M.M.#, Blick, T.#, Fridman, M#., Arvanitis, A*#., Price, J.T.#, Waltham, M.#, Ackland, L.§, Gilles, C.**, Savagner, P[^]. and Newgreen, D.F.†

*University of Melbourne Department of Surgery; #St. Vincent's Institute of Medical Research, Melbourne; §Department of Biochemistry, Deakin University, Melbourne; †Murdoch Children's Research Institute, Melbourne; **Laboratory of Developmental and Tumor Biology, Université de Liège, Liège, Belgium; [^]EMI 0229 INSERM, Montpellier, France

26 Cell-free 59 kDa integrin-linked kinase as a potential biomarker of ovarian cancer

Ahmed N, Oliva K, Riley C, Stutt E, Barker G, Quinn M and Rice G

Gynaecological Cancer Research Centre, Royal Women's Hospital, Melbourne, Australia

27 Overexpression of Autocrine Motility Factor (AMF) implicates epithelial to mesenchymal transition in human oral squamous carcinoma cells.

Niinaka Y, Haga A, Yamaguchi S, Raz A and Amagasa T

Tokyo Medical and Dental University, Tokyo, Japan; Gifu Pharmaceutical University, Gifu, Japan; Karmanos Cancer Institute, Detroit, MI

28 Transcriptional regulation of Slug expression in neural crest formation.

Sakai, D, Endoh, Y, Osumi, N and Wakamatsu, Y

Department of Developmental Neurobiology, Graduate school of Medicine, Tohoku university, Sendai, Miyagi, Japan

29 Fociemix, a novel basal lamina of stratified epithelia

Rodgers, RJ and Irving-Rodgers, HF

Obstetrics and Gynaecology, University of Adelaide, Adelaide, Australia

30 A cortactin/CD2-associated protein (CD2AP) complex provides a novel link between epidermal growth factor receptor endocytosis and the actin cytoskeleton.

Lyons, RJ, Lynch, DK, Winata, S, Hughes, WE, Lehrbach, GM, Wasinger, V, Corthals, G and Cordwell, S and Daly, RJ

Diabetes and Obesity Research Program and Protein Analysis Facility, Garvan Institute of Medical Research, St Vincent's Hospital, Sydney, NSW 2010, Australia and Australian Proteome Analysis Facility, Macquarie University, Sydney, NSW 2109, Australia.

31 The deubiquitylating enzyme FAM and endocytosis of the cadherin-catenin adhesion complex

Millard, SM and Wood, SA

Child Health Research Institute, Adelaide, Australia School of Molecular & Biomedical Science, The University of Adelaide, Australia Centre for the Molecular Genetics of Development, Adelaide, Australia

32 Serum-dependent AJ formation in NRK cells

Yonemura, S and Miyake, Y

Laboratory for Cellular Morphogenesis, RIKEN Center for Developmental Biology, Kobe, Japan

33 The Wnt/FZD pathway in the regulation of EMT in colonic adenocarcinomas.

Elizabeth Vincan, Phillip K Darcy, Nancy I Reyes, Robert JS Thomas, Mark J Smyth and Wayne A Phillips

Surgical Oncology Laboratory and Cancer Immunology Programme, Research Division, Peter MacCallum Cancer Centre

34 Invasive phenotype of cervical cancer cell line: implication of EMT

Vipra, MR and Chiplonkar, JM

Cell Biology, National Centre For Cell Science, Pune, India.

35 Mouse teratocarcinoma F9 cells as a model to elucidate epithelium formation mechanisms

Nagafuchi, A, Ikenouchi, J, Fukunaga, Y, Shimizu, M, Komiya, S and Yoshinaga, T Cellular Interactions, IMEG, Kumamoto Univ., Kumamoto, Japan

36 Extracellular factors induce cellular organisation, alter expression of epithelial

markers and modify EMT, in PMC42-LA breast carcinoma cells

Ackland, L, #Waltham, M, *Newgreen, D, ßArvenitis, A, Lebret, S, #Price, J, #Fridman, M and ßThompson, E

Biological and Chemical Sciences, Deakin University, Melbourne, Australia; *The Murdoch Children's Research Institute, Parkville, Melbourne, 3052, Australia; #St. Vincent's Institute of Medical Research, Fitzroy, Melbourne, 3065, Australia; ßUniversity of Melbourne, Department of Surgery, St. Vincent's Hospital, Melbourne, Australia

37 A link between the endocytosis of FGFR and E-cadherin. Implications for co-regulation of cell growth and adhesion.

Bryant, DM and Stow, JL

Institute for Molecular Bioscience, The University of Queensland, Brisbane, Australia; Institute for Molecular Bioscience, University of Queensland, Brisbane 4072, QLD Australia

38 Cadherin-11 in breast cancer cell invasion and lymphangiogenesis

Feltes, CM, Hampel, C, Blaschuk, O* and Byers, SW

Lombardi Cancer Center, Georgetown University, Washington, USA; Lombardi Cancer Center, Georgetown University, Washington DC and *Department of Surgery, McGill University, Montreal.

39 Investigating the role of ß3 integrin and osteonectin in human melanoma metastasis by Tet-regulated ectopic expression

Gardiner, B.B., Smit, D.J. and Sturm, R.A.

Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia

40 Temporally defined and magnitude specific co-ordination of Erk1/2 activation with transforming growth factor-ß signaling in epithelial to mesenchymal transition

Wang, B, Steveners, K, Burgess, AW and Zhu, H-J Ludwig

Institute for Cancer Research, Melbourne, Australia

41 Subtractive immunization using highly metastatic human tumor cells identifies SIMA135/CDCP1, a 135 kDa cell surface phosphorylated glycoprotein antigen.

Hooper, JD*, Zijlstra, A, Aimes, RT, Liang, H, Claassen, GF, Tarin, D, Testa, JE and Quigley, JP

School of Life Sciences, Queensland University of Technology, Brisbane, Australia; The Scripps Research Institute, La Jolla, California, USA *current position: School of Life Sciences, Queensland University of Technology, Brisbane, Australia

42 Ghrelin and a novel Ghrelin isoform have potential autocrine/paracrine roles in hormone-dependent cancer.

Jeffery, P, Herington, AC and Chopin, LK

Hormone-Dependent Cancer Program, School of Life Sciences, Queensland University of Technology, Brisbane, Australia

43 Kallikrein 4 mediates interactions between prostate cancer cells and osteoblasts: a potential role in bone metastasis?

Collard, R, Veveris-Lowe, T, Herington, A and Clements, J

Science Research Centre, Queensland University of Technology, Brisbane, Australia

44 The role of Osteonectin in MDA-MB-231 breast cancer cell tumor growth and metastasis

Koblinski, JE^{*}, Kaplan-Singer, B^{*}, Wu, M^{*}, Wang, S[#], Harms, J^{**}, Welch, D[^], Engbring, JA^{*} and Kleinman, HK^{*}

CDBRB, NIDCR, NIH, Bethesda, USA; ^{*}Craniofacial Developmental Biology and Regeneration Branch, National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, MD, USA, [#]Salivary Gland Disease Center, Beijing Institute of Dental Research, Beijing, China, ^{**}Jack Gittlen Cancer Research Institute, The Pennsylvania State University College of Medicine, Hershey, PA, USA, [^]Department of Pathology, University of Alabama-Birmingham, Birmingham, AL, USA.

45 A metastasis-promoting laminin-1 peptide up-regulates fibronectin expression in malignant cells.

Engbring, JA, Hossain, R, Koblinski, JE and Kleinman, HK CDBRB, NIDCR, NIH, Bethesda, USA

46 HScrb is a functional homologue of the Drosophila tumour suppressor Scribble

Dow, LE^{*}, Brumby, AM^{**}, Muratore, RM^{*}, Coombe, ML^{**}, Russell, SM[#], Richardson, HE^{**} and Humbert, PO^{*}

Research Division, Peter MacCallum Cancer Centre, Melbourne, Australia; ^{*}Cell Cycle and Cancer Genetics Laboratory ^{**}Cell Cycle and Development Laboratory [#]Immune Signaling Laboratory Peter MacCallum Cancer Centre, St Andrew's Place, East Melbourne, 3002, Victoria, Australia

47 A role for cortactin in coupling cadherin ligation to actin assembly and cell junction biogenesis

Falak Helwani^{*}, Eva Kovacs^{**}, Scott Weed^{***}, Alan Fanning ^{****} and Alpha Yap^{*} Institute for Molecular Biosciences, University of QLD, Brisbane, Australia; ^{*} Institute for Biomedical Sciences ^{**} School of Biomedical Sciences ^{***} Department of Craniofacial Biology, University of Colorado Health Sciences, Denver, CO, USA. ^{****}Department of Cell and Molecular Physiology, University of North Carolina at Chapel Hill, NC,27599, USA.

48 p120-catenin is essential for E-cadherin signalling to RAC.

Goodwin, MK^{*}, Thoreson, MA^{**}, Reynolds, AB^{**} and Yap, AS^{*}

Institute for Molecular Biosciences, University of Queensland, Brisbane, Australia; ^{*} Institute for Molecular Biosciences, University of Queensland, St Lucia, Brisbane, Australia ^{**} Department for Cancer Biology, Vanderbilt University, Nashville, TN, USA

49 Possible role for WASP family proteins in Cadherin directed actin assembly

Ali, RG 1,2, Verma, S 2, Kovacs, EM 3, Miki, H 4 and Yap, AS 1,2 Department of Physiology and Pharmacology and Institute of Molecular Biosciences, University of Queensland, Brisbane, Australia; 1 School of Biomedical Sciences, University of Queensland, Brisbane, Australia 2 Institute of Molecular

Biosciences, University of Queensland, Brisbane, Australia 3 Massachusetts Institute of Technology, Boston, USA 4 University of Tokyo, Tokyo, Japan

50 The role of Ena/VASP proteins in Cadherin function

Scott, JA , Gertler, FB* and Yap AS

IMB/Physiology and Pharmacology , University of Queensland, Brisbane, Australia; *Department of Biology, Massachusetts Institute of Technology, Cambridge, MA 02139-4307, USA

51 Stromal expression of Caveolin-1 regulates breast cancer progression

Anderson, RL, Henderson, M, Waring, P and Sloan, EK

Research Laboratories, Peter MacCallum Cancer Centre, St. Andrews Place, East Melbourne, Victoria, Australia

52 Sox10 expression induces EMT and generation of neural crest

Farlie, PG, McKeown, SJ and Newgreen, DF

Embryology, Murdoch Childrens Research Institute, Melbourne, Australia

53 Tubular transdifferentiation is induced by advanced glycation endproducts (AGE) via a CTGF dependent pathway.

Burns, WC, Thomas, MC, Kantharidis, P, Tikellis, C, Forbes, J and Cooper, ME
Division of Diabetic Complications, Baker Heart Research Institute, Melbourne, Australia; Division of Diabetes Complications, Baker Heart Research Institute, PO Box 6492, Melbourne, VIC, 8008.

54 Regulation of β -catenin subcellular localisation by Rac1-dependent changes in actin

Sharma, M and Henderson, BR

Westmead Millennium Institute, University of Sydney, Sydney, Australia

55 The anti-adhesin podocalyxin is an independent predictor of breast cancer metastasis and its overexpression disrupts breast carcinoma cell junctions

Somasiri, AM *, Nielsen, J **, Makretsov, N ***, Gilks, BC ***, Huntsman, D ***
Gelmon, K ***, Kershaw, BD ****, McNagny, KM ** and Roskelley, CD *

* Dept of Anatomy and Cell Biology, University of British Columbia, Vancouver BC, Canada. ** Biomedical Research Center, University of British Columbia, Vancouver BC, Canada. *** Genetic Pathology Evaluation Centre, Vancouver General Hospital, BC Cancer Agency and the University of British Columbia, Vancouver BC, Canada, ****University of Michigan Medical Center, Department of Pediatrics, Ann Arbor, Michigan

56 Matrix metalloproteinase-3 causes genomic instability and epithelial-to-mesenchymal transition through induction of reactive oxygen species

Derek Radisky, Jimmie Fata, Dinah Levy, Zena Werb* and Mina Bissell

Life Sciences Division, Lawrence Berkeley National Laboratory, Berkeley, USA; *Department of Anatomy, University of California, San Francisco

57 The ETS transcription factor Elf5 is a modulator of prolactin action on the mammary epithelium during pregnancy, and is expressed in a number of epithelial breast cancer cell lines.

Harris, J*, Naylor, MJ*, Robertson, FG*, Blazek, K*, Lindeman, GJ[^], Visvader, J[^]

and Ormandy, CJ*

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58 Signals involved regulating EMT by the MET receptor tyrosine kinase; a role for the CRK adapter protein

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59 Implication of the MAGI-1/PTEN signalosome in stabilization of adherens junctions and suppression of invasiveness

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60 Expression of the Slug transcription factor in tissues of adult mice

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61 Protein interactions of E-cadherin during trafficking in epithelial and cancer cells

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62 TGF β induces EMT indicated by reduced E-Cadherin

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