CSH Asia/ICMS Joint Conference
on Tumor Microenvironment

Suzhou, China
November 13-17, 2012

TUESDAY, NOVEMBER 13, 2012

18:00  GREETINGS

18:15  Isaac P. Witz, Tel Aviv University, Tel Aviv, Israel
       Introductory Remarks

18:30  KEYNOTE LECTURE

       Introduced by Isaac P. Witz

       Robert C. Gallo, Institute of Human Virology, University of Maryland
       School of Medicine, Baltimore, Maryland, USA
       Human tumor viruses—Old foes and new challenges

19:15  Welcome Reception and Dinner
WEDNESDAY, NOVEMBER 14, 2012

PLENARY SESSION 1

IMMUNITY IN THE TUMOR MICROENVIRONMENT

Chairperson: W. H. Fridman, Cordeliers Research Centre, Paris, France

8:30 Xuetao Cao, Chinese Academy of Medical Sciences, Beijing, China
Identification of new populations of immunosuppressive cells in tumor microenvironment P2

8:55 Ron N. Apte, Ben-Gurion University of the Negev, Beer-Sheva, Israel
Interleukin-1 as a major cytokine determining the balance between inflammation and immunity in the tumor microenvironment P3

9:20 Michael R. Shurin, University of Pittsburgh, Pittsburgh, Pennsylvania, USA
Environmental regulation of the tumor microenvironment P4

9:45 Wolf H. Fridman, Cordeliers Research Centre, Paris, France
Shaping the immune microenvironment—Soil or seed? P5

10:10 Coffee Break

10:45 KEYNOTE LECTURE

Introduced by Isaac P. Witz

Carlo Croce, Ohio State University, Columbus, Ohio, USA
MicroRNAs can function as ligands for TLR and regulate the interactions between cancer cells and their microenvironment P6

PLENARY SESSION 2

REGULATORY EVENTS IN THE TUMOR MICROENVIRONMENT

Chairperson: X. Cao, Chinese Academy of Medical Sciences, Beijing, China

11:30 Heike Allgayer, University of Heidelberg, Mannheim, Germany
Defining key functions of microRNAs in several processes of the metastatic cascade P7

11:55 Hidetoshi Tahara, Graduate School of Biomedical Sciences Hiroshima University, Hiroshima, Japan
Senescence associated microRNAs and exosomes coordinately regulate cellular senescence and tumor microenvironment P8

12:20 Lunch
PLENARY SESSION 2 continued

REGULATORY EVENTS IN THE TUMOR MICROENVIRONMENT

14:00  **Eitan Yefenof**, Hebrew University, Jerusalem, Israel  
*Steroid induced death of hemopoietic cancer cells—An interplay between protein kinases and micro RNAs*  
P9

14:25  **Baocun Sun**, Tianjin Medical University, Tianjin, China  
*Study on vasculogenic mimicry and its molecular mechanism*  
P10

14:50  **Yongzhang Luo**, Tsinghua University, Beijing, China  
*The CXCL12 (SDF-1α)/CXCR4 axis regulates both tumor angiogenesis and lymphangiogenesis*  
P11

15:15  **Theresa Guise**, Indiana University, Indianapolis, Indiana, USA  
*Muscle dysfunction associated with bone metastases—Role of ryanodine receptor remodeling*  
P12

15:40  **KEYNOTE LECTURE**

*Introduced by: Isaac P. Witz*

**Peter H. Krammer**, German Cancer Research Center (DKFZ), Heidelberg, Germany  
Regulation of the immune response by Annexin I  
P13

16:25  **POSTER VIEWING and CHINESE TEA & BEER TASTING**

*Full list of posters can be found on page xvii of the program*

18:00  **Dinner**

PLENARY SESSION 3

INFLAMMATION IN THE TUMOR MICROENVIRONMENT

**Chairperson:**  **L. Li**, Nankai University School of Pharmaceutical Science, Tianjin, China

19:30  **Luyuan Li**, Nankai University, Tianjin, China  
*TNFSF15 modulates angiogenesis and inflammation*  
P14

19:55  **Adit Ben-Baruch**, Tel Aviv University, Tel Aviv, Israel  
*Regulation of pro-angiogenic switch and cell-remodeling by the inflammatory microenvironment in breast cancer*  
P15

20:20  **Alberto Mantovani**, Istituto Clinico Humanitas IRCCS, Milan, Italy  
*The yin-yang of tumor associated macrophages and cancer-related inflammation*  
P16

20:45  **Neta Erez**, Sackler School of Medicine Tel Aviv University, Tel Aviv, Israel  
*Pro-inflammatory signaling by cancer-associated fibroblasts co-evolves along defined tumor stages of mammary carcinogenesis*  
P17

21:10  **Subhra K. Biswas**, A*STAR, Singapore  
*A protumoral role for myelomonocytic cells in human cancer progression—A molecular insight*  
P18
THURSDAY, NOVEMBER 15, 2012

8:30-13:00 PARALLEL SYMPOSIUM SESSIONS 1-3

14:00 Visit to Old Suzhou

SYMPOSIUM 1

REGULATORY NETWORKS IN THE TUMOR MICROENVIRONMENT

Chairpersons: D. Hoon, John Wayne Cancer Institute, Santa Monica, California, USA
A. Thomas-Tikhonenko, University of Pennsylvania School of Medicine, Philadelphia, USA

8:30 Dave S. Hoon, John Wayne Cancer Institute, Santa Monica, California, USA
B7-H3 cell surface molecule associated with tumor progression and epigenetic regulatory activity in cutaneous melanoma S1-1

8:50 Andrei Thomas-Tikhonenko, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, Pennsylvania, USA
Pro-angiogenic microRNAs in colorectal cancer—Lessons from mouse models and cancer genomics S1-2

9:10 Reuven Reich, Institute of Drug Research, Jerusalem, Israel
MicroRNA-mediated regulation of ovarian carcinoma—Role of exosomes S1-3

9:25 Yaw-Chyn Lim, National University of Singapore, Singapore
Breast cancer cells modulate the tissue microenvironment of distant sites to facilitate metastasis S1-4

9:40 Shelly Tartakover Matalon, Tel Aviv University, Tel Aviv, Israel; Meir Medical Center, Kfar Saba, Israel
Dr. Jekyll and Mr. Hyde—The placenta’s dual effect on the metastatic potential of breast cancer cells S1-5

9:55 Eli Breuer, Hebrew University, Jerusalem, Israel
Carbamoylphosphonates control tumor cell proliferation and dissemination by simultaneously inhibiting carbonic anhydrase IX and matrix metalloproteinase-2 S1-6

10:10 Ying Wei, University of California San Francisco, San Francisco, California, USA
Identification of pY654-β-catenin as a critical co-factor in hypoxia-inducible factor-1α signaling and tumor responses to hypoxia S1-7

10:25 Coffee Break

11:00 Rachel Bar-Shavit, Hadassah-Hebrew University Hospital, Jerusalem, Israel
Emerging tasks of PAR1 & 2 in breast cancer—Molecular mechanism and translational outcome S1-8
11:15 Linda J. Metheny-Barlow, Wake Forest School of Medicine, Winston-Salem, North Carolina, USA
Activation of a BDNF-p75NTR axis in breast cancer brain metastatic cells by the microenvironment S1-9

11:30 Abdelilah Aboussekhra, King Faisal Specialist Hospital & Research Center, Riyadh, Saudi Arabia
Role of p16INK4A and caffeine in suppressing the expression/secretion of IL-6 and the pro-carcinogenic effects of breast cancer-associated fibroblasts S1-10

11:45 Ben-Zion Katz, Tel-Aviv Medical Center, Tel-Aviv, Israel
Divergence in CD19-mediated signaling unfolds intra-clonal diversity in chronic lymphocytic leukemia which correlates with disease progression S1-11

12:00 Xiyun Yan, Institute of Biophysics, Chinese Academy of Sciences, Beijing, China
The role of CD146 in tumor cell migration and tumor angiogenesis S1-12

12:15 Rami Aqeilan, Hebrew University, Jerusalem, Israel
A pleiotropically tumor suppressor WWOX, inhibits breast cancer metastasis S1-13

SYMPHOSIUM 2
FUNCTIONAL GENETICS OF FIBROBLASTS IN THE TUMOR MICROENVIRONMENT

Chairperson: A. Ostman, Karolinska Institutet, Stockholm, Sweden

8:30 Anna Östman, Karolinska Institutet, Stockholm, Sweden
Impact of PDGFR-positive CAFs on prognosis, drug response and metastasis S2-1

8:50 Zhihai Qin, Institute of Biophysics, CAS, Beijing, China
Microtubule modification in stromal fibroblasts accelerates inflammation and tumor progression S2-2

9:10 Donghui Zou, University of Otago, Dunedin, New Zealand
Gene expression differences between colorectal cancer derived CAFs and colonic fibroblasts illustrate CAF biology S2-3

9:25 Catherine Muller, IPBS CNRS UMR 5089, Toulouse, France
Adipocyte-derived fibroblasts (ADFs), a newly identified stromal cell population, promote tumor progression and contribute to desmoplastic reaction in breast cancer S2-4

9:40 Cecilia S. Leung, The University of Texas MD Anderson Cancer Center, Houston, Texas, USA
Cancer associated fibroblast derived MFAP5 regulates ovarian cancer cell motility and invasion potential through calcium dependent CREB/TNNC1 signaling pathways S2-5

9:55 Tao Shan, First Affiliated Hospital of Medical College, Xi’an Jiaotong University, Xi’an, China
Caveolin-1, as a novel biomarker of lethal tumor microenvironment, is inhibited via autophagy in pancreatic cancer associated fibroblasts cells S2-6
SYMPOSIUM 3
CYTOKINE AND CHEMOKINE NETWORKS IN THE TUMOR MICROENVIRONMENT

Chairperson: L. Borsig, University of Zurich, Switzerland

10:10 Lubor Borsig, University of Zürich, Zurich, Switzerland
Colon carcinoma extravasation is induced by CCL2-induced signaling through endothelial CCR2 that is mediated through the JAK2-Stat5 and p38MAPK pathway S3-1

10:30 Coffee Break

11:00 Joseph Kwong, The Chinese University of Hong Kong, Shatin, Hong Kong
Cancer cell-derived lymphotoxin mediates reciprocal tumor-stromal interactions in ovarian cancer by inducing fibroblast-secreting CXCL11 S3-2

11:15 Bo Zhu, Xinqiao Hospital Institute of Cancer, Chongqing, China
Cancer stem cells enhance invasion of cancer cells via CCL-5-mediated epithelial-mesenchymal transition S3-3

11:30 Etta Livneh, Ben Gurion University of the Negev, Beer Sheva, Israel
PKC and its polymorphism enhance secretion of the pro-inflammatory cytokine IL-6 and are involved in establishing cellular senescence S3-4

11:45 Elena Voronov, Ben Gurion University of the Negev, Beer Sheva, Israel
The effects of IL-1 on colorectal cancer development S3-5

12:00 Li Yang, National Cancer Institute, Bethesda, Maryland, USA
Tumor microenvironment, the answer for the puzzling dual function of TGFβ S3-6

12:15 Marcelo Ehrlich, Tel Aviv University, Tel Aviv, Israel
Transport and signaling of the receptors for transforming growth factor-β (TGF-β) — Regulation by molecular motifs, cellular factors and the cell cycle S3-7

12:30 Akira Saito, University of Tokyo, Tokyo, Japan
An integrated expression profiling reveals target genes of TGF-β and TNF-α possibly mediated by microRNAs in lung cancer cells S3-8

13:00 Lunch

14:00 Visit to Old City of Suzhou and free evening
FRIDAY, NOVEMBER 16, 2012

PLENARY SESSION 4

REGULATORY EVENTS IN THE TUMOR MICROENVIRONMENT III

Chairperson: A. Raz, Wayne State University, Detroit, Michigan, USA

8:30  Takahiro Ochiya, National Cancer Center, Tokyo, Japan
Exosome as a novel regulator of tumor-microenvironment  P19

8:55  Menashe Bar-Eli, UT MD Anderson Cancer Center, Houston, Texas, USA
Driving genes in melanoma metastasis—The role of the tumor microenvironment  P20

9:20  Bernd Groner, Georg Speyer Haus, Frankfurt am Main, Germany
Reciprocal interactions between stromal and epithelial cells regulate the ductal outgrowth during glandular development and the invasive potential of metastasizing mammary tumor cells  P21

9:45  Avraham Raz, Wayne State University, School of Medicine, Detroit, Michigan, USA
On the role of autocrine motility factor—a tumor secreted cytokine in cancer progression and metastasis  P22

10:10  Coffee Break

10:45  Raghu Kalluri, Harvard Medical School, Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA
Fibrosis and cancer progression  P23

11:10  Yu-quan Wei, The State Key Lab of Biotherapy, West China Hospital, Chengdu, China
Proteomics analysis of tumor microenvironment—implications of metabolic and oxidative stresses in tumorigenesis  P24

11:35  Senthil K. Muthuswamy, University of Toronto, Toronto, Canada; Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, USA
Loss of cell polarity and metastasis—Synergy with oncogenes or the microenvironment  P25

12:00  Lunch and Poster Viewing

13:45  POSTER SESSION

Oral presentation of selected posters and awarding of poster prizes

Full list of posters begins on page xvii of the program
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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution/Location</th>
<th>Title</th>
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<tbody>
<tr>
<td>15:30</td>
<td>Frances R. Balkwill</td>
<td>Barts Cancer Institute, Queen Mary University of London, United Kingdom</td>
<td>Targeting the peritoneal tumor microenvironment of high grade serous ovarian cancer</td>
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<tr>
<td>15:55</td>
<td>Yutaka Kawakami</td>
<td>Keio University School of Medicine, Tokyo, Japan</td>
<td>Mechanisms for cancer induced immunosuppression in tumor associated microenvironments and their reversal by targeting altered signaling pathways in cancer cells and immune cells</td>
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<td>16:20</td>
<td>Robert S. Kerbel</td>
<td>Sunnybrook Research Institute, Toronto, Canada</td>
<td>Differential therapeutic outcomes when treating primary orthotopic tumors versus visceral metastases</td>
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<tr>
<td>16:45</td>
<td>Yona Keisari</td>
<td>Tel Aviv University, Tel Aviv, Israel</td>
<td>Ablation of solid tumors by intratumoral pulsed electric currents or alpha radiation activates anti-tumor immune responses that can target residual disease</td>
</tr>
<tr>
<td>17:10</td>
<td>Jacques Pouyssegur</td>
<td>Institute for Research on Cancer and Aging (IRCAN), University of Nice, CNRS, INSERM, Nice, France</td>
<td>Genetic disruption of CD147/ Basigin, a subunit of lactate-H(^+)/symporters (MCTs), sensitizes glycolytic tumour cells to phenformin</td>
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<tr>
<td>17:35</td>
<td><strong>SPECIAL SESSION</strong></td>
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<td>Submission to High Impact Journals</td>
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<td><strong>Discussion Leader:</strong> Nicola McCarthy</td>
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<td>Chief Editor, Nature Reviews Cancer</td>
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<td>18:00</td>
<td><strong>Cocktails and Conference Dinner</strong></td>
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SATURDAY, NOVEMBER 17, 2012

8:30-13:00  PARALLEL SYMPOSIUM SESSIONS 4-5

SYMPOSIUM 4
INFLAMMATION AND IMMUNITY IN THE TUMOR MICROENVIRONMENT

Chairpersons: J.-P. Abastado, A-STAR, Singapore
A. Porgador, Ben Gurion University of the Negev, Beer Sheva, Israel

8:30  Jean-Pierre Abastado, A-STAR, Singapore  
Chemokines shape the immune tumor microenvironment  S4-1

8:50  Angel Porgador, Ben-Gurion University of the Negev, Beer Sheva, Israel  
The function of NCRs in health and cancer—Emphasis on isoforms  S4-2

9:10  Limin Zheng, Sun Yat-sen University, Guangzhou, China  
Dynamic regulating the immune responses by different anatomic areas in human tumors  S4-3

9:30  Reuven Stein, Tel Aviv University, Tel Aviv, Israel  
CD38 deficiency in the tumor microenvironment attenuates glioma progression and modulates features of tumor-associated microglia/macrophages  S4-4

9:50  Viktor Umansky, German Cancer Research Center and University Hospital Mannheim, Heidelberg, Germany  
Overcoming immunosuppression in melanoma microenvironment induced by chronic inflammation  S4-5

10:10  Coffee Break

10:30  Diane Damotte, Institut National de la Santé et de la Recherche Médicale (INSERM), U872, Centre de Recherche des Cordeliers, Paris, France; Université Pierre et Marie Curie, Paris, France; Université Paris Descartes, Paris, France  
Composition, organization and clinical impact of the adaptive and innate immune microenvironments in lung metastases from colorectal and renal cell carcinoma  S4-6

10:45  Alexandre Corthay, University of Oslo, Oslo, Norway  
Tumor-specific Th2 cells collaborate with M2 macrophages to eradicate cancer  S4-7
11:00 **Michal Baniyash**, Hebrew University Hadassah Medical School, Jerusalem, Israel
*Chronic inflammation-induced immunosuppression—Underlying mechanisms and clinical implication in cancer*  
S4-8

11:15 **Cremer Isabelle**, UMRS 872 INSERM, Team 13, Paris, France
*TLR7 in non-small cell lung carcinoma (NSCLC) patients—A double-edged sword*  
S4-9

11:30 **Julia Kzhyshkowska**, University of Heidelberg, Mannheim, Germany
*Stabilin-1 is expressed on tumor-associated macrophages on early stages in breast cancer and supports tumor growth in animal breast cancer model by clearance of SPARC*  
S4-10

11:45 **Arthur A. Hurwitz**, National Cancer Institute, Frederick, Maryland, USA
*Tumor-associated mast cells suppress anti-tumor immunity via IL-13 and TGF-β*  
S4-11

**SYMPoSIUM 5**

**TARGETING THE TUMOR AND THE TUMOR MICROENVIRONMENT**

*Chairpersons: R. Ge, National University of Singapore, Singapore  
T. ten Hagen, Erasmus Medical Center, Rotterdam, the Netherlands*

8:30 **Ruowen Ge**, National University of Singapore, Singapore
*Novel functions of a proteoglycanase—ADAMTS5 (aggrecanase-2) functions as an anti-angiogenic and anti-tumorigenic protein independent of its proteoglycanase activity*  
S5-1

8:50 **Shelly Maman**, Tel-Aviv University, Tel-Aviv, Israel; The Institute of Human Virology, University of Maryland School of Medicine, Baltimore, Maryland
*Micrometastasis regulation by the lung microenvironment in neuroblastoma*  
S5-2

9:05 **Timo LM. ten Hagen**, Erasmus MC, Rotterdam, the Netherlands
*Utilization and manipulation of the tumor microenvironment to improve drug delivery to solid tumors*  
S5-3

9:25 **Ingrid Herr**, University of Heidelberg and German Cancer Research Center, Heidelberg, Germany
*Selection of established and primary models of pancreatic cancer stem cells and therapeutic targeting*  
S5-4

9:45 **Liat Drucker**, Tel Aviv University, Tel Aviv, Israel; Meir Medical Center, Kfar Saba, Israel
*Translation initiation as a novel platform for targeting myeloma-microenvironment interactions*  
S5-5

10:00 *Coffee Break*
10:30 Albrecht Reichle, University Regensburg, Regensburg, Germany
A phase II study of Imatinib with pioglitazone, etoricoxib, dexamethasone and low-dose treosulfan—Combined anti-osteoplastic, anti-inflammatory, immunomodulatory and angiostatic treatment in patients with CRPC

10:45 Zhengqiang Yuan, University College London, London, United Kingdom
Reduction of lung metastasis by engineered mesenchymal stem cells expressing TRAIL

11:00 Andrei V. Bakin, Roswell Park Cancer Institute, Buffalo, New York, USA
Targeting TAK1 in cancer progression and metastasis

11:15 Hélène Haegel, Transgene SA, Illkirch-Graffenstaden, France
An anti-CD115 monoclonal antibody targeting both tumor cells and myeloid cells involved in cancer progression—Inhibition of osteoclast and M2-polarized macrophages

11:30 Michael Grusch, Medical University of Vienna, Vienna, Austria
Deregulation of the FGF/FGF-receptor axis during melanoma progression—Opportunities for simultaneous targeting of tumor cells and the microenvironment

11:45 Martina Seiffert, German Cancer Research Center, Heidelberg, Germany
The immunomodulatory drug lenalidomide reduces survival of chronic lymphocytic leukemia cells by targeting the inflammatory microenvironment

12:00 Shihui Liu, National Institute of Allergy and Infectious Diseases, NIH, Bethesda, Maryland, USA
Treating solid tumors with tumor-associated protease-activated anthrax toxins
POSTERS
Posters will be displayed for the duration of the conference

Jennifer H.E. Baker, University of British Columbia, Vancouver, Canada; BC Cancer Research Centre, Vancouver, Canada
Investigating the highly heterogeneous distribution of trastuzumab in Her2-overexpressing cancer xenografts using DCE-MRI and histology Pos1

Xingfeng Bao, Eisai Inc, Andover, Massachusetts, USA
Antagonism of PGE, receptor type-4 induces an effective anti-tumor immune response by promoting APC differentiation Pos2

Shijie Cai, University of Oxford, Oxford, United Kingdom; Huaqiao University, Quanzhou, China
Stromal fibroblast GTP cyclohydrolase expression facilitates tumor angiogenesis and progression Pos3

David W. Chan, The University of Hong Kong, Pokfulam, Hong Kong
The AMP-activated protein kinase gamma-2 (AMPK-γ2) subunit acts as a modifier of AMPK activity in ovarian cancer cells Pos4

Mo Chen, National University of Singapore, Singapore
The novel angiogenesis inhibitor Isthmin inhibits angiogenesis through GRP78-mediated internalization Pos5

Yu-Che Cheng, Academia Sinica, Taipei, Taiwan
BTG3 suppresses tumorigenesis and metastasis by antagonizing the AKT–GSK3β–β-catenin signaling pathway Pos6

Valerie SP. Chew, Singapore Immunology Network, Singapore
Toll-like receptor 3-expressing tumor parenchyma and infiltrating natural killer cells promote tumor control in hepatocellular carcinoma Pos7

Yoon Pyo Choi, Yonsei University College of Medicine, Seoul, South Korea
Synergistic effect for the combination of ILK and β4 integrin as an anticancer target in ovarian cancer Pos8

Hila Confino, Sackler Faculty of Medicine, Tel - Aviv, Israel
Induction of anti-tumor immunity against experimental metastatic tumors following tumor ablation by intratumoral RA-224 loaded wires Pos9

Matthew T. Drake, Mayo Clinic, Rochester, Minnesota, USA
Overexpression of CCL3/MIP-1α induces diffuse bone loss in a novel murine model of human multiple myeloma Pos10

Min Fang, Zhongnan Hospital of Wuhan University, Wuhan, China
Co-evolution of tumor microenvironment revealed by QDs-based multiplexed imaging of hepatocellular carcinoma Pos11
**Eliane Fischer**, Paul Scherrer Institute, Villigen, PSI, Switzerland

*Targeting fibroblast activation protein (FAP) with phage-derived radiolabeled antibodies*

**Liang Han**, First Affiliated Hospital of Xi’an Jiaotong University, Xi’an, China

*Sonic hedgehog signaling passage contributes to neurogenic pain through stellate cells in pancreatic cancer*

**Ville Härmä**, VTT Technical Research Centre of Finland, Turku, Finland

*Quantification of dynamic morphological drug responses in 3D organotypic cell cultures by automated image analysis*

**Tal Hirschhorn**, Tel Aviv University, George S. Wise Faculty of Life Sciences, Tel Aviv, Israel

*Differential regulation of Smad3 and of the type II transforming growth factor-β receptor in mitosis—Implications for signaling*

**Dominique B. Hoelzinger**, Mayo Clinic College of Medicine, Scottsdale, Arizona, USA

*Administration of intratumoral CpG-ODN and CCL1 depletion leads to activated, cytolytic CD8+ T cells resistant to tolerization*

**Jason P. Holland**, Harvard Medical School, Massachusetts General Hospital, Boston, Massachusetts, USA

*Designing radiotracers for non-invasive nuclear imaging of the tumor microenvironment*

**Esther Hoste**, Cancer Research UK, Cambridge, United Kingdom

*Characterization of a mouse model of wound-induced skin tumourigenesis*

**Yizhou Hu**, University of Helsinki, Helsinki, Finland

*Netrin-4 promotes glioblastoma cell proliferation via integrin beta-4 signaling*

**Bo Huang**, Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences, Beijing, China

*Biomechanical signaling—Implications in cancer and immunoregulation*

**Min-Chuan Huang**, National Taiwan University College of Medicine, Taipei, Taiwan

*The molecular chaperone Cosmc enhances malignant behaviors of colon cancer cells via activation of Akt and ERK*

**Marko Hyytiäinen**, University of Helsinki, Helsinki, Finland

*The signalling pathways mediating the effects of netrins on proliferation and invasion of glioblastoma cells*

**Takashi Imai**, National Institute of Radiological Sciences, Chiba, Japan

*Association of polymorphisms in hyaluronan receptor CD44 with radiotherapy effectiveness in patients with cervical cancer*
Sivan Izraely, Tel Aviv University, Tel Aviv, Israel

**Specificity and functions of molecules associated with melanoma brain metastasis**

Tianxia Jiang, Institute of Biophysics, Chinese Academy of Sciences, Beijing, China

**CD146 is a co-receptor for VEGFR-2 in tumor angiogenesis**

Jing Jiao, University of California Los Angeles, Los Angeles, California, USA

**Cell type specific role of COX2 on skin cancer development**

Ki-Rim Kim, Yonsei University College of Dentistry, Seoul, South Korea

**15-deoxy-Δ12,14-prostaglandin J2 inhibits osteolytic bone metastasis of breast cancer cells**

Sara Lamorte, Instituto Português de Oncologia de Lisboa Francisco Gentil, Lisbon, Portugal; University of Torino, Torino, Italy

**Multiple myeloma perivascular niche perturbs bone marrow function—Role of delta like ligand 4**

Nongnit Laytragoon-Lewin, Ryhov Hospital Clinical Microbiology, Jönköping, Sweden

**Prognostic biomarkers, plasma CRP and TNFa on survival of head and neck squamous cell carcinoma (HNSCC) patients**

Eun-Jung Lee, Yonsei University Health System, Seoul, South Korea

**Down-regulation of IL-12 though IL-6 production increased treatment failure after radiotherapy of hepatocellular carcinoma**

Qun-Ying Lei, Fudan University, Shanghai Medical College, Shanghai, China; Fudan University, Institutes of Biomedical Sciences, Shanghai, China

**Acetylation negatively regulates lactate dehydrogenase A and is downregulated in pancreatic cancer**

Kristina Levan, Sahlgrenska Cancer Center, Gothenburg, Sweden

**Characterization of genes involved in epithelial mesenchymal transition in SKOV-3 and OVCAR-3 cells**

Bing Li, University of Minnesota, Austin, Minnesota, USA

**Adipose fatty acid binding protein accelerates cancer progression**

Cong Li, Fudan University, Shanghai, China

**Imaging intratumoral acidosis by using a pH-activatable near-infrared fluorescence probe in vivo**

Dan Liu, Vanderbilt University, Nashville, Tennessee, USA; Yale University, New Haven, Connecticut, USA

**Loss of LZAP inactivates p53 in head and neck cancer and regulates sensitivity of cells to DNA damage in the p53-dependent manner**
Li Liu, Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, China

The regulatory pathways and controlling mechanisms involved in NOK oncogene mediated glucose metabolism

Li Liu, University of Heidelberg and German Cancer Research Center, Heidelberg, Germany

Triptolide from TCM abolishes NF-κB-signaling, EMT and stem-like features in an hypoxic microenvironment of pancreatic cancer

Su Hao Lo, University of California - Davis, Sacramento, California, USA

Cten functions as a novel quantity controller of epidermal growth factor receptor

Noor A. Lokman, University of Adelaide, Adelaide, Australia

Annexin A2 released during ovarian cancer-peritoneal cell interaction promotes a pro-metastatic cancer cell behaviour

Ida Lundberg, Umeå University, Umeå, Sweden

Different subgroups of colorectal cancer and adjacent fibroblasts

Samuel Lundin, University of Gothenburg, Gothenburg, Sweden

Cancer associated fibroblast (CAF) footprints in the transcriptional profiles of gastric tumor- and non-tumor tissue

Yunus A. Luqmani, Kuwait University, Safat, Kuwait

Factors influencing proliferation and invasion of endocrine resistant breast cancer cells

Tsipí Meshel, Tel-Aviv University, Tel-Aviv, Israel

Mechanisms regulating the secretion of the inflammatory chemokine CCL2 in breast tumor cells

Tsipí Meshel, Tel-Aviv University, Tel-Aviv, Israel

The role of PhoX2B in micro and macro metastases of neuroblastoma

Adriana Michielsen, Institute of Molecular Medicine, St. James’s Hospital, Trinity College Dublin, Dublin, Republic of Ireland

The tissue microenvironment in Barrett’s Oesophagus induces dendritic cell maturation

Neda Moazzezy, Pasteur Institute of Iran, Tehran, Iran

Biomarker expression in blood and tissue of breast cancer patients

Elin Möllerström, Sahlgrenska Academy, University of Gothenburg, Göteborg, Sweden

Subpopulations of cells within human astrocytomas determined by single cell gene expression profiling
Jennifer M. Munson, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland

**Lymphatic endothelial cell-induced stromal stiffening caused by activation of fibroblasts in the tumor microenvironment**

Pos48

Daotai Nie, Southern Illinois University School of Medicine, Springfield, Illinois, USA

**Microenvironmental regulation of tumor metastasis through thromboxane A2-receptor signalling axis**

Pos49

Se Young Park, Yonsei University College of Dentistry, Seoul, South Korea

**Inhibitory effect of betulinic acid on breast cancer-associated bone diseases**

Pos50

E Pomianowska, University of Oslo, Oslo, Norway

**Role of cyclooxygenase-2 and prostaglandin E2 in stellate cells from pancreatic cancer**

Pos51

Yael Raz, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel; Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel.

**Characterization of cancer associated fibroblasts in mammary gland carcinoma**

Pos52

Albrecht Reichle, University Regensburg, Regensburg, Germany

**Biomodulatory therapy approaches—Renal clear cell carcinoma**

Pos53

Albrecht Reichle, University Regensburg, Regensburg, Germany

**Formal-pragmatic communication theory as prerequisite for an evolution-adjusted tumor pathophysiology**

Pos54

Albrecht Reichle, University Regensburg, Regensburg, Germany

**Practical relevance of an evolution theory for understanding tumor development and for specifying tumor therapy**

Pos55

Thomas Reinheckel, Albert-Ludwigs-University, Freiburg, Germany

**Cysteine cathepsins as tumor-promoting extracellular proteases in the microenvironment of murine breast cancer**

Pos56

Carmela Ricciardelli, University of Adelaide, Adelaide, Australia

**Carboplatin-induced hyaluronan production—a chemoresistance mechanism in ovarian cancer**

Pos57

Orit Sagi-Assif, Tel-Aviv University, Tel-Aviv, Israel

**The metastatic microenvironment—Survival of melanoma cells in the brain is regulated by interactions with the brain microenvironment**

Pos58

Francis H.W. Shand, University of Tokyo, Tokyo, Japan; CREST, Tokyo, Japan; University of Melbourne, Parkville, Australia

**The contribution of spleen-pool myeloid cells to tumor infiltration**

Pos59
Mammary fibroblasts are activated to become pro-inflammatory by breast tumor cells

Towards identification of a receptor for the orphan chemokine CXCL14

Epithelial-mesenchymal transition at the tumor-stroma interface of non-small cell lung carcinoma

Clinical potential of NPV-LDE-225 (Erismodegib) for the treatment of brain cancer by targeting glioblastoma initiating cells

MT3-MMP regulates melanoma growth and vascular intravasation

Combined role of interstitial fluid flow and ErbB2 expression on breast cancer progression

Melanoma and endothelial cell communication affect tumor aggressiveness

Secreted stress-induced phosphoprotein 1 activates the ALK2-SMAD signaling pathways and promotes cell proliferation of ovarian cancer cells

ADAMTS4—A new role in angiogenesis and cancer

Unraveled a paracrine network underlying the potential of human lung stem cells to establish their own niche

Mast cells in muscularis propria producing interleukin 17 predicts favorable prognosis in esophageal squamous cell carcinoma

Tumor-surrounding adipocytes provide energetic support to breast cancer cells, through fatty acid β-oxidation, to promote tumor progression
Julia E. Wells, Telethon Institute for Child Health Research, Perth, Australia; University of Western Australia, Perth, Australia

In vivo model to determine the role of connective tissue growth factor (CTGF) in childhood leukaemia

Hui Z. Xie, State Key Laboratory of Molecular Oncology, Beijing, China

IQGAP1 knockdown induced anoikis by inhibition of Erk1/2 and S6K activity in Eca109, HB99 and HCT116 cell lines

Dan Xu, Dalian Maritime University, Dalian, China

miR-22 is involved in the cytotoxic effect of endosulfan on human endothelial cells

Lixia Xu, Nankai University, Tianjin, China

Death receptor-3 is a key mediator of TNFα- and TNFSF15-induced endothelial cell apoptosis

Celestial T. Yap, Yong Loo Lin School of Medicine, National University of Singapore, Singapore

Gelsolin modulates the expression of extracellular matrix components in colon cancer

Tsz-Lun Yeung, University of Texas MD Anderson Cancer Center, Houston, Texas, USA

TGF-β induced stromal versican promotes cancer invasion in advanced stage serous ovarian cancer

Irene Ylivinkka, University of Helsinki, Helsinki, Finland

Netrin-1 promotes the invasiveness and survival of human glioblastoma cells

Mingo M. H. Yung, The University of Hong Kong, Hong Kong SAR, China

Bitter melon extract (BME) used as natural AMPK activator in inhibiting ovarian cancer cells growth

Yiyao Zhang, University of Heidelberg and German Cancer Research Center, Heidelberg, Germany

Aspirin-sensitizes pancreatic cancer to chemotherapeutic drugs by inhibition of cancer stem cell features

Bo Zhu, Xinqiao Hospital Institute of Cancer, Chongqing, China

IL-17 produced by tumor microenvironment promotes self-renewal of cancer stem cells in ovarian cancer