

2nd International
Conference

**„Cancer Stem Cells:
Impact on Treatment“**

Seefeld, Tyrol, AUSTRIA

December 11 – 15, 2018

LEE17-00610





The Company of
Biologists

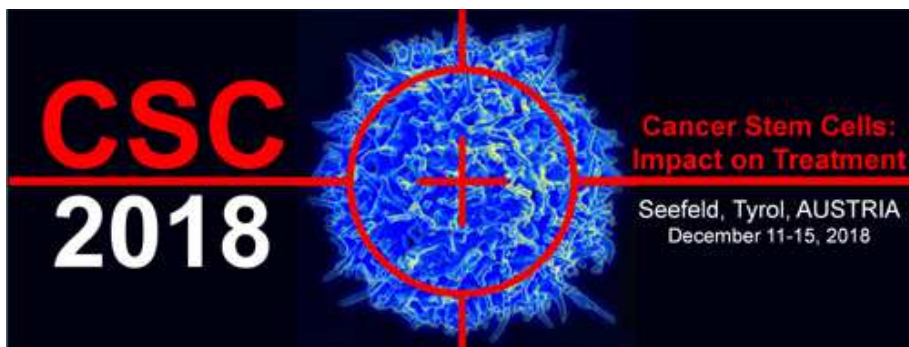


Agilent



phi

PHASE
HOLOGRAPHIC
IMAGING



Day 1: December 11, 2018

Day of arrival	
10:00 – 18:00	Arrival on site and registration
19:00 – 21:00	Dinner

Day 2: December 12, 2018

Morning Session 9:00 – 11:55	
<i>Chairs:</i> Jinsong Liu, Claudia Matteucci	
9:00 – 9:15	<i>Opening of Conference</i>
9:15 – 9:50	Keynote lecture: Jinsong Liu <i>The Origin of Cancer and Therapeutic Resistance: Insight from Polyploid Blastomere-like Cancer Stem Cells</i> (M.D.Anderson, Houston, USA)
9:50 – 10:15	Caterina AM La Porta <i>Crosstalk between cancer cells and cancer stem cells in view of new therapeutic strategies</i> (University of Milan, Milan, Italy)
10:15 – 10:40	Olga Gordeeva <i>Cancer-testis antigens: unique cancer cell biomarkers and</i>

	targets for cancer therapy (Institute of Developmental Biology, Russian Academy of Sciences, Moscow, Russian Federation)
10:40 – 11:00	Coffee Break
11:00 – 11:35	Claudia Matteucci Human endogenous retroviruses as switch control of cancer cells stemness (University of Rome “Tor Vergata”, Rome, Italy)
11:25 – 11:55	Maxim Sorokin Molecular pathway activation – new type of biomarkers for tumor morphology and personalized selection of target drugs (I.M. Sechenov First Moscow State Medical University, Moscow, Russian Federation; Omicsway Corp., Walnut, CA, USA; Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russian Federation)

Lunch 12:00 – 13:00

13:00 – 16:00 – free time (snowboarding, skiing, cross-country skiing, ice skating, ice curling, sledding, walking)

OR

**Round Table “Tumor Dormancy and Metastasis”
Chaired by Dalit Barkan (Haifa University, Mt. Carmel, Israel)**

Presentations:

13:00 – 13:30 Dalit Barkan **EMT and Stemness in Tumor Dormancy and Outgrowth: Are They Intertwined Processes?**

13:30 – 14:00 Isaac Witz **The cross-talk between brain-metastasizing melanoma cells with brain cells** (Tel Aviv University, Tel Aviv, Israel)

14:00 – 14:30 Ilze Strumfa **Stem Cell Differentiation by CD44 Expression in Colorectal Carcinoma: Predictor of**

Lymph Node Metastases (Department of Pathology, Riga Stradins University, Riga, Latvia)
14:30 – 15:00 – Discussion; Conclusion

Evening Session 16:00 – 19:00

Chairs: Purificacion Muñoz, Jürgen Borlak

16:00 – 16:35	Keynote lecture: Purificacion Muñoz <i>Impact of cancer stem cell plasticity on skin carcinoma progression</i> (IDIBELL, Barcelona, Spain)
16:35 – 17:00	Peter W.K. Nagle <i>An organoid model for prediction of esophageal cancer treatment response</i> (University Medical Centre Groningen, Groningen, the Netherlands)
17:00 – 17:20	Coffee Break
17:20 – 17:45	Jürgen Borlak <i>Fatty liver disease, cancer stem cells and hepatocellular carcinoma</i> (Hannover Medical School, Centre for Pharmacology and Toxicology, Hannover, Germany)
17:45 – 18:10	George Tze Sian Chan <i>An ASPM-targeted nanotherapy inhibits hepatoma stemness and aggressiveness by blocking Wnt-Dvl-1-beta-catenin signaling</i> (Department of Internal Medicine, School of Medicine, College of Medicine, Taipei Medical University, Taiwan, China)
18:10 – 18:35	Qiongzhu Dong <i>HGF/MET signaling activation is responsible for the acquired resistance to sorafenib of hepatocellular carcinoma</i> (Fudan University, Shanghai, China)
18:35 – 19:00	Pritha Ray <i>Role of IGF1R-PI3KCA-AKT signaling in maintenance and</i>

	functionality of cancer stem cells during acquirement of platinum resistance in ovarian cancer cells (ACTREC, Tata Memorial Centre, Imaging Cell Signaling & Therapeutics Lab, India)
--	--

Dinner 19:00 – 21:00

Day 3: December 13, 2018

Morning Session 9:00 – 11:50	
Chairs: Stefano Piccolo, Tamara Lah-Turnšek	
9:00 – 9:35	Keynote lecture: Stefano Piccolo YAP/TAZ and cancer stem cells (University of Padua, Padova, Italy)
9:35 – 10:00	Tamara Lah-Turnšek Dual Nature of stem cells in brain tumor: Doctor Jekyll and Mister Hyde (National Institute of Biology, Ljubljana, Slovenia)
10:00 – 10:25	Jun Zhu Glioma stem cell profiles in glioblastoma (GBM) molecular subtypes (Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai, New York, USA)
10:25 – 10:45	Coffee Break
10:45 – 11:00	Baole Zhang An Epigenetic Study on Mechanism of High Level Transcription of GDNF Gene in Glioma Cells (Xuzhou Medical University, Xuzhou, Jiangsu, China)
11:00 – 11:15	Abiola Abdurahman Ayanlaja A novel discovery of DCX nucleoplasmic transport facilitated by GDNF in gliomas via the classical Ran GTPase pathway

	(Xuzhou Medical University, Xuzhou, Jiangsu, China)
11:15 – 11:50	Pier Paolo Claudio <i>Prospective clinical analysis of cancer stem cell drug response assay for glioblastoma patients</i> (University of Mississippi, USA)

Lunch 12:00 – 13:00

13:00 – 16:00 – free time (snowboarding, skiing, cross-country skiing, ice skating, ice curling, sledding, walking)
OR
free communications of the participants; discussion of collaboration

Evening Session 16:00 – 19:30

***Chairs:* Anahid Jewett, Brigitte Pützer**

16:00 – 16:35	Keynote lecture: Anahid Jewett <i>Supercharged NK cells for treatment of stem-like/poorly differentiated pancreatic and oral cancers; Journey from basic biology in humanized mice to human clinical trials</i> (UCLA, Los Angeles, USA)
16:35 – 17:00	Cristina Maccalli <i>The role of cancer stem cells in the immunomodulation of anti-cancer immune responses</i> (Clinical Research Center, Research Department, Sidra Medicine, Doha, Qatar)
17:00 – 17:25	Lorenzo Castagnoli <i>Triple-negative breast cancer stem cells up-regulate PD-L1 expression as a potential shield against immune-mediated tumor rejection</i> (Fondazione IRCCS Istituto

	Nazionali dei Tumori, Milano, Italy)
17:25 – 17:45	Coffee Break
17:45 – 18:10	Ettore Mosca <i>Functional gene networks underlying somatic mutations in breast cancer initiating cells</i> (Institute of Biomedical Technologies, CNR, Segrate, Italy)
18:10 – 19:30	<i>Poster Presentations; Selection of the best Poster Presentation</i>

Conference Dinner and Presentation of the Poster Winner 20:00 – 24:00

Day 4: December 14, 2018

Morning Session 9:00 – 12:00	
Chairs: Bruno Sainz, Janko Kos	
9:00 – 9:35	Keynote Lecture: Bruno Sainz <i>The ever-evolving concept of the cancer stem cell in pancreatic cancer</i> (Autonoma University of Madrid, Madrid, Spain)
9:35 – 10:00	Yue Zhao <i>Aldo-keto reductase family 1 member B10 – AKR1B10, a metabolic target for gemcitabine induced therapy resistance and metastasis of pancreatic cancer – implications from cancer stem cells and their niche</i> (University Hospital of Cologne, Cologne, Germany)
10:00 – 10:20	Coffee Break
10:20 – 10:45	Maryam Mehrpour <i>Autophagy and iron homeostasis in breast cancer stem cells</i> (Institut Necker-Enfants Malades,

	Universite Paris Descartes-Sorbonne Paris Cite, Paris, France)
10:45 – 11:10	Daniel Gebhard <i>Past, Present and Future: Measure what your cell is, does and will do with Agilent Seahorse XF Technology</i> (Agilent, Munich, Germany)
11:10 – 11:35	Janko Kos <i>Cysteine cathepsins: their biological and molecular significance in cancer stem cells</i> (University of Ljubljana, Ljubljana, Slovenia)
11:35 – 12:00	Adit Ben-Baruch <i>Inflammation-driven networks in the regulation of breast cancer progression: Cancer stem cells and beyond</i> (Life Sciences Tel Aviv University, Tel Aviv, Israel)

Lunch 12:00 – 13:00

13:00 – 16:00 – free time (snowboarding, skiing, cross-country skiing, ice skating, ice curling, sledding, walking)
OR
free communications of the participants; discussion of collaboration

Evening Session 16:00 – 18:50

Chairs: Ilio Vitale, Jürgen Dittmer

16:00 – 16:25	Ilio Vitale <i>Replication stress response in colorectal cancer stem cells as a target for chemotherapy</i> (University of Rome Tor Vergata, Rome, Italy)
16:25 – 16:50	Kristiaan Lenos <i>Stem cell functionality is fully microenvironmentally defined during tumour expansion and therapy response</i>

	<i>in colon cancer</i> (Laboratorium for Experimental Oncology and Radiobiology (LEXOR), Amsterdam UMC, Amsterdam, the Netherlands)
16:50 – 17:10	Coffee Break
17:10 – 17:35	Mariangela De Robertis <i>microRNA regulation of colon cancer stem cells: biological relevance and clinical implications</i> (CNR - Institute of Translational Pharmacology Laboratory of Molecular Pathology and Experimental Oncology, Rome, Italy)
17:35 – 18:00	Alexey Lupatov <i>Post-genomic study of CD133 positive tumor cells associated with colorectal cancer stem cell phenotype</i> (Institute of Biomedical Chemistry, Moscow, Russian Federation)
18:00 – 18:25	Brigitte Pützer <i>Emerging functional markers for cancer stem cell-based therapies: Why targeting matters to conquer metastasis</i> (Rostock University Medical Center Institute of Experimental Gene Therapy and Cancer Research, Rostock University Medical Center, Rostock, Germany)
18:25 – 18:50	Jürgen Dittmer <i>Long-term exposure to carcinoma-associated fibroblasts makes breast cancer cells addictive to integrin $\beta 1$</i> (Martin-Luther-Universität Halle-Wittenberg, Halle (Saale), Germany)

Dinner 19:15 – 21:00

Day 5: December 15, 2018

Morning Session 9:00 – 12:00

Chairs: Isaac Witz, Maja Cemazar

9:00 – 9:45	Keynote lecture <i>The Creation of the Tumor Microenvironment Research Field</i> Isaac Witz (Tel Aviv University, Tel Aviv, Israel)
9:45 – 10:15	Jozsef Dudas <i>Growth factor and cancer stem cell related therapy survival mechanisms in head and neck squamous cell carcinoma</i> (Medical University of Innsbruck, Innsbruck, Austria)
10:15 – 10:35	Coffee Break
10:35 – 11:05	Maja Cemazar <i>Cisplatin radio-chemotherapy of HPV positive squamous cell carcinoma tumors in vitro and in vivo</i> (Institute of Oncology Ljubljana, Ljubljana, Slovenia)
11:05 – 11:30	Bertram Aschenbrenner <i>Invasive breast cancer: A novel option to improve radiation response by the use of ferroptosis inducers</i> (Medical University of Innsbruck, Tyrolean Cancer Research Institute, Innsbruck, Austria)
11:30 – 11:45	Conference Closing

Adjourn and Departure

