Twenty-Third Heidelberger Symposium on Cancer Research

September 23-28, 2019

Stintino, Sardinia Italy

https://med.nyu.edu/register/heidelbergersymposium/

Monday, September 23, 2019

7:00 pm	**Arrival and Dinner**	

Tuesday, September 24, 2019

7:30 am	**Registration and Breakfast**	
	Maria A. Zoroddu and Orazio Cantoni , Chairs	
8:30 am	Welcome remarks	Max Costa and Maria Zoroddu
8:40 am	Introduction to the First Charles Heidelberger Memorial Symposium on Cancer Research	Eli Huberman
8:50 am	Introduction to the Career of Dr. Charles Heidelberger and to Continuing Charles Heidelberger Memorial Symposia on Cancer Research	Joseph Landolph
Molecular Mechanisms of Carcinogenesis	**Curtis Harris and Donna Zhang, Chairs**	
9:00 am	Curtis Harris, NCI	Cancer and Aging
9:30 am	Donna Zhang, University of Arizona	The Intricacies of NRF2 Regulation in Cancer
10:00 am	Wei Dai, New York University School of Medicine	Ras sumoylation in Cell Signaling and Transformation
10:30 am	Lyudmila Gulyaeva, Novosibirsk State University	Smoking in Epigenetic Mechanisms of Lung Cancer: Role of AhR
11:00 am	**Coffee Break**	
11:30 am	Tom Hei, Columbia University	Radiation Carcinogenesis: From TGFBI to the Non-Targeted Effects
12:00 am	Gloria Calaf, Universidad de Tarapaca/Columbia University	Role of organophosphorous pesticides and acetylcholine in breast carcinogenesis
12:30 pm	Yong Li, Cleveland Clinic, Lerner Research Institute	From the Most Dangerous Dioxin to the Most Profitable Weed Killer: Environmental Risk of Multiple Myeloma
1:00 pm	Marco Giorgio, European Institute of Oncology	On the mitochondrial oncogene-induced senescence

1:30 pm	Bhagavatula Moorthy, Baylor College of Medicine	Mechanistic role of cytochrome P4501 enzymes in pulmonary carcinogenesis mediated by PAHs
2:00 pm	**Lunch**	
Nickel Carcinogenesis	**Max Costa and Joseph Landolph, Chairs**	
3:00 pm	Chuanshu Huang, New York University School of Medicine	Epigenetic Factors, DNMT3 and LncRNA MEG3, Contributes to Nickel Lung Carcinogenesis
3:30 pm	Suresh Cuddapah, New York University School of Medicine	Epigenetic Activation of Epithelial-Mesenchymal Transition by Nickel Exposure
4:00 pm	Joseph Landolph, University of Southern California	Genomic Sequencing Reveals Mutations, Gene Amplifications, and Deletions in Insoluble Ni+2 Transformed C3H/10T1/2 Cell Lines
4:30 pm	Samuel Buxton, NiPERA	Cancer mode of action for nickel in the EU regulatory context
5:00 pm	Michael Maroney, University of Massachusetts at Amherst	HypA and the Nickelation of Urease in Helicobacter pylori
5:30 pm	Hong Sun, New York University School of Medicine	SATB2 and Nickel Carcinogenesis
6:00 pm	Koren Mann, McGill University	Potential tumorigenic mechanisms of tungsten
6:30 pm	**Dinner**	

Wednesday, September 25, 2019

8:00 am	**Breakfast**	
Arsenic Carcinogenesis	**Ke Jian Jim Liu and Chunyuan Jin, Chairs**	
9:00 am	Ke Jian Jim Liu, University of New Mexico	DNA repair, mutation signature, and arsenic exposure: a whole genome sequencing approach
9:30 am	Orazio Cantoni, University of Urbino	Direct and indirect effects of arsenite CA^{2+} homeostasis and mitochondrial ROS formation: implications for the genotoxic response mediated by the metalloid
10:00 am	Chunyuan Jin, New York University School of Medicine	Environmental exposure and chromatin assembly
10:30 am	Max Costa, New York University School of Medicine	A New Mechanism for As Carcinogenesis
11:00 am	**Coffee Break**	
11:30 am	Marcello Bonini, Medical College of Wisconsin	Arsenic promotes basal subtypes of Breast Cancer
12:00 pm	Zhishan Wang, University of Kentucky	The synergistic lung tumorigenic effect of arsenic and BaP co-exposure
12:30	Yvonne Fondufe-Mittendorf, University of Kentucky	Epigenomic reprogramming in iAs-mediated carcinogenesis
1:00 pm	**Lunch**	
2:00 pm	**Excursion to Alghero**	

7:00 pm	**Dinner**	

Thursday, September 26, 2019

8:00 am	**Breakfast**	
Chromate Carcinogenesis	**Alvaro Puga and Xianglin Shi, Chairs**	
9:00 am	Bing-Hua Jiang, University of Iowa	MicroRNAs and epigenetic regulation in metal-induced angiogenesis and carcinogenesis
9:30 am	Xianglin Shi, University of Kentucky	Mechanism of Cr(VI) carcinogenesis and its prevention
10:00 am	Alvaro Puga, University of Cincinnati	Chromium exposure disrupts chromatin architecture
10:30 am	Chengfeng Yang, University of Kentucky	Epigenetic mechanism of Cr(VI)-induced cell malignant transformation and tumorigenesis
11:00 am	**Coffee Break**	
Approaches to Cancer Therapy I	**Karl-Heinrich Link and Robert Ladner, Chairs**	
11:30 am	Serenella Medici, Universita di Sassari	Metal Nanoparticles in the Treatment of Cancer
12:00 pm	Andrea Rasola, Universita di Padova	A TRAP on the road to tumor growth. The mitochondrial chaperone TRAP1 as a potential target for anti-neoplastic strategies.
12:30 pm	Karl-Heinrich Link, Asklepios Paulinen Cancer Center	Pancreatic cancer surgery/multimodal therapy: Is pancreatic cancer curable?
1:00 pm	Robert Ladner, Queens University Medical School	Targeting Thymidylate Metabolism In Cancer Therapeutics: New Opportunities Hidden in Plain Sight
1:30 pm	**Lunch**	
2:30 pm	Konstantin Salnikow, National Cancer Institute	Iron and cancer
3:00 pm	Zhibin Wang, Johns Hopkins Bloomberg School of Public Health	Epigenetic insights of sodium arsenite expsoure in development and cancer
3:30 pm	Free Time	
6:00 pm	**Sardinian Dinner and Cena Sociale Performance (Sardinian folk dance, tenors performance, classical singing with soprano)**	

Friday, September 27, 2019

8:00 am	**Breakfast**	
Biomarkers and Carcinogenesis	**Julia Kzhyshkowska and Sergei Kovalenko, Chairs**	

9:00 am	Julia Kzhyshkowska, University of Heidelberg	Macrophages as biomarkers and therapeutic targets in cancer
9:30 am	Sergei Kovalenko, Novosibirsk State University	Liquid biopsy in lung cancer monitoring
10:00 am	Bernardo Lemos, Harvard T.H. Chan School of Public Health	Environmental epigenetics and new mechanistic markers of chemical exposure
10:30 am	**Coffee Break**	
11:00 am	Luigi Casella, Universita di Pavia	Dopamine toxicity and neurodegeneration
11:30 am	Massimiliano Peana, Universita di Sassari	The dark side of metal Nps: focus on cancerogenic effects
12:00 pm	Chendil Damodaran, University of Louisville School of Medicine	Challenges in Treating Patients With Prostate Cancer
12:30 pm	Christopher States, University of Louisville School of Medicine	MicroRNA Dysregulation and Chromosome Instability in Arsenic Carcinogenesis
1:00 pm	**Lunch**	
Approaches to Cancer Therapy II	**Eliezer Huberman and Wei Li, Chairs**	
2:00 pm	David Ann, City of Hope	Arginine starvation kills tumor cells through aspartate exhaustion and mitochondrial dysfunction
2:30 pm	Eli Chapman, University of Arizona	Targeting NRF2 to treat cancer
3:00 pm	Eliezer Huberman, University of Illinois, Novadrug LLC	Drugs to Control Hazardous Viruses Including Some Involved in Human Malignancies
3:30 pm	Wei Li, Keck School of Medicine of USC	Tumor-secreted Hsp90 is a safer and more effective target for therapeutics
4:00 pm	**Coffee Break**	
4:30 pm	Giovanni Natile, University of Bari "Aldo Moro"	Interference Between Copper Transport Systems and Platinum Drugs
5:00 pm	Joyce Ellen Ohm, Roswell Park Cancer Institute	Genetic and Environmental Reprogramming of the Sarcoma Epigenome
5:30 pm	Fei Chen, Wayne State University	Mdig is a demethylase for the inhibitory histone trimethylation markers
6:00 pm	Joseph Landolph	Summary of Major Findings of the Twenty Third Heidelberger Symposium on Cancer Research
6:30 pm	**Dinner**	

Saturday,September 28, 2019

8:00 am	**Breakfast and Departure**

Organizing Committee – Italy

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