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Cancer Metastasis: The Role of Metabolism, Immunity and the Microenvironment (M2)

Scientific Organizers: Erika L. Pearce, Sarah-Maria Fendt, Russell G. Jones and Peter F. Carmeliet

March 15–19, 2019 Firenze Fiera- Fortezza da Basso, Florence, Italy

Organized in collaboration with the following organizations - Cancer Research UK and Menarini International Foundation

Sponsored by Autolus Therapeutics

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DEADLINES:

*All deadlines end at 11:59 PM US Mountain Standard Time Scholarship Deadline: Nov 28, 2018 [details] Discounted Abstract Deadline: Nov 28, 2018 [details] Abstract Deadline: Dec 11, 2018 [details] Discounted Registration Deadline: Jan 17, 2019 [details]

If you have missed a deadline due to the US government shutdown, please contact our office.

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No registration fees are used to fund entertainment or alcohol at this conference

Conference Program Print | View meeting in 12 hr (am/pm) time

The meeting will begin on Friday, March 15 with registration from 16:00 to 20:00 and a welcome mixer from 18:00 to 20:00. Conference events conclude on Tuesday, March 19 with a closing plenary session from 16:00 to 18:00, followed by a social hour and entertainment. We recommend return travel on Wednesday, March 20 in order to fully experience the meeting.

FRIDAY, MARCH 15

16:00-20:00	Arrival and Registration	Fureria
18:00-20:00	Welcome Mixer No registration fees are used to fund alcohol served at this function.	Arsenale

SATURDAY, MARCH 16

08:00-08:30	Poster Setup	Arsenale
08:30-18:00	Poster Viewing	Arsenale
08:30-09:30	Welcome and Keynote Address	Basilica
	Registered attendees can view abstracts starting on 02/15/2019	
	* Erika L. Pearce, Max Planck Institute of Immunobiology and Epigenetics, Germany	
	Charles Swanton, Francis Crick Institute, UK Chromosomal Instability and Genome Plasticity in Cancer Evolution, Immune Evasion and Metastasis	
09:30-12:00	Interactions via the Tumor Microenvironment	Basilica
	Registered attendees can view abstracts starting on 02/15/2019	
	* Sarah-Maria Fendt, VIB Leuven, Belgium	
	Massimiliano Mazzone, KU Leuven - VIB, Belgium Immunometabolism in Cancer and Other Diseases	
	Coffee Break	

Keystone Sympo	osia Conference Cancer Metastasis: The Role of Metabolism, Immunity a	and the Microenvironment - F
	Shizhen Emily Wang, University of California, San Diego, USA Secreted miRNAs Reprogram Metabolism in the Tumor Niche	
	Karen H. Vousden, Francis Crick Institute, UK ROS Regulation and Cancer Progression	
	<u>Samuel F. Bakhoum</u> , Memorial Sloan Kettering Cancer Center, USA	
	Short Talk: Chromosomal Instability Promotes Metastasis through a Cytosolic DNA Response and Modulation of the Immune Microenvironment	
	Li Yang, NCI, National Institutes of Health, USA Short Talk: DNMT3B Induction at Distant Site Promotes Breast Cancer Metastasis through Epigenetic Reprogramming	
12:00-13:00	Lunch	Arsenale
13:00–15:30	Poster Session 1	Arsenale
15:30-16:00	Coffee Available	Arsenale
16:00–18:00	Mitochondria and Oxidative Stress in Cancer Metastasis and Immunity Registered attendees can view abstracts starting on 02/15/2019	Basilica
	* Matthew G. Vander Heiden, Massachusetts Institute of Technology, USA	
	<u>Erika L. Pearce</u> , Max Planck Institute of Immunobiology and Epigenetics, Germany Mitochondrial Integrity Regulated by FABP5 is a Cell-Intrinsic Checkpoint for Treg Suppressive Function	
	Marcia C. Haigis, Harvard Medical School, USA New Functions for Metabolic Byproducts in the Tumor Microenvironment	
	<u>Ralph J. DeBerardinis</u> , University of Texas Southwestern Medical Center, USA Metabolic Enablers of Cancer Progression	
	<u>Zachary T. Schafer</u> , University of Notre Dame, USA Short Talk: Resistance to PD-1 Checkpoint Inhibitors Is Associated with Defective RIPK1-Mediated Mitophagy	
	<u>Alexei Vazquez</u> , CRUK Beatson Institute, UK Short Talk: Formate Links Glycolysis to Oxidative Phosphorylation	
18:00	On Own for Dinner No registration fees are used to fund alcohol served at this function.	
SUNDAY, MARCH	i 17	
08:30–11:45	Cancer and Immunity in the Tumor Microenvironment Registered attendees can view abstracts starting on 02/15/2019	Basilica
	* Georgia Hatzivassiliou, Genentech, Inc., USA	
	<u>Russell G. Jones</u> , Van Andel Research Institute, USA Essential Nutrients for Effector T Cell Expansion	
	Matthew G. Vander Heiden, Massachusetts Institute of Technology, USA Microenvironmental Determinants of Tumor Metabolism	
	Coffee Break	
	<u>Giuseppe Matarese</u> , Università degli Studi di Napoli Federico II, Italy	

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Regulatory T Cells as Suppressors of Anti-Tumor Immunity

Lannis Aifantis, New York University School of Medicine, USA Mapping the Bone Marrow Microenvironment in Single Cell Resolution

Fabio Grassi, Institute for Research in Biomedicine, Switzerland Short Talk: Senescence Induction by the ATP-Gated P2X7 Receptor Limits T Cell Effector Response in the Tumor Microenvironment

Paula D. Bos, Virginia Commonwealth University, USA Short Talk: Regulatory T Cells Promote Breast Cancer Progression and Metastasis by Functional Reprogramming of Bone Marrow-Derived Cell Populations

Zachary Bacigalupa, Vanderbilt University Medical Center, USA Short Talk: Targeting ACSS2 Inhibits HIF-2a Signaling in ccRCC

	and Promotes Favorable T Cell Characteristics Immune Response in ccRCC	
11:45–16:00	On Own for Lunch	
11:45–13:00	Poster Setup	Arsenale
13:00-22:00	Poster Viewing	Arsenale
13:30–15:30	Workshop	Basilica
	* Julian J. Lum, British Columbia Cancer Agency, Canada	
	Ho-Young Lee, Seoul National University, South Korea The Interplay between Slow-Cycling Chemoresistant Cancer Cells and Fibroblasts in Tumor Microenvironment Mediates Tumor Recurrence in Lung Cancer	
	Julianna Blagih, Francis Crick Institute, UK Loss of p53 in Tumor Cells Promotes Immune-Tolerance through Modulation of the Innate and Adaptive Immune Responses	
	Medhi Wangpaichitr, Miami VA Hospital, USA Kynurenine Metabolism in Cisplatin-Resistant Lung Cancer	
	Nuzhat Ahmed, Fiona Elsey Cancer Research Institute, Australia Metabolic and Immune Regulatory Signatures in Chemoresistant Ovarian Cancer Stem Cells	
	<u>David R. Soto-Pantoja</u> , Wake Forest School of Medicine, USA Metabolic Endpoints as Biomarkers of Immune Checkpoint Therapy Response	
	<u>Chia-Ning Shen</u> , Academia Sinica, Taiwan Mitochondrial OXPHOS Activity Is Required for Lung Metastatic Colonization of Pancreatic Cancer	
	Madhusudhanan Sukumar, NCI, National Institutes of Health, USA Mitochondrial Uncoupling Protein 2 (UCP2) Regulates T Cell Longevity and Anti-Tumor Function	
	Jing Fan, University of Wisconsin-Madison, USA Two-Stage Remodeling of Mitochondrial Metabolism in Macrophages Over a Course of Immune Response	
15:30–16:00	Coffee Available	Arsenale
16:00-18:00	Metastasis, Tumor Vessels and Immunity Registered attendees can view abstracts starting on 02/15/2019	Basilica
	* Massimiliano Mazzone, KU Leuven - VIB, Belgium	
	<u>Peter F. Carmeliet</u> , University of Leuven, VIB, Belgium Angiogenesis Revisited: Role and (Therapeutic) Implications of Endothelial Metabolism	
	<u>Michael Potente</u> , Max Planck Institute for Heart and Lung Research, Germany Metabolic Activity and Growth State in the Vascular Endothelium	
	<u>Bin-Zhi Qian</u> , University of Edinburgh, UK Macrophage Heterogeneity in Breast Cancer Metastasis	
	<u>Sophia Y. Lunt</u> , Michigan State University, USA Short Talk: Sialic Acid Metabolism Is a Key Driver of Breast Cancer Metastasis	
	Andreas Fischer, German Cancer Research Center, Germany Short Talk: Angiocrine Signals Promote Metastasis	
18:00—19:00	Social Hour with Lite Bites No registration fees are used to fund alcohol served at this function.	Arsenale
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08:00-08:30	Poster Setup	Arsenale
08:30-16:00	Poster Viewing	Arsenale
08:30-11:45	Therapeutic Strategies for Metabolism and Immune Modulation	Basilica
	Registered attendees can view abstracts starting on 02/15/2019	

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	* Giuseppe Matarese, Università degli Studi di Napoli Federico II, Italy	
	Katya Marjon, Agios Pharmaceuticals, USA Therapeutics Targets in Cancer Metabolism	
	<u>Tim F. Greten</u> , NCI, National Institutes of Health, USA Targeting the Inflammation - Cancer Axis	
	Coffee Break	
	Georgia Hatzivassiliou, Genentech, Inc., USA Dissecting the Impact of NRF2 Activation on Lung Adenocarcinoma Biology, Immune Contexture and Patient Outcomes	
	Gabriele A.I. Bergers, University of Leuven, Belgium Constructing Tumor Vessels to Enhance Immunity	
	Julian J. Lum, British Columbia Cancer Agency, Canada Short Talk: Understanding the Metabolome of Human TIL for Cancer Immunotherapy	
	Fabricio Loayza-Puch, Deutsches Krebsforschungszentrum,	
	Germany Short Talk: Targeting Proline Availability in Metastatic Breast Cancer	
	Gus Zeiner, Chimera Bioengineering, USA Short Talk: A Metabolism-Triggered, Localized Payload Delivery System for T Cell Therapies	
11:45-13:00	Lunch	Arsenale
13:00-15:30	Poster Session 3	Arsenale
15:30-16:00	Coffee Available	Arsenale
16:00-18:00	Stem Cells in Inflammation, Cancer and Metastasis Registered attendees can view abstracts starting on 02/15/2019	Basilica
	* Iannis Aifantis, New York University School of Medicine, USA	
	Elaine V. Fuchs, Rockefeller University, USA Skin Stem Cells in Inflammation and Cancer	
	Mohamed Bentires-Alj, University Hospital Basel, Switzerland Cancer Targeted Therapy and Tumor Heterogeneity: Act Locally, Think Globally	
	Robert A. Weinberg, Massachusetts Institute of Technology, USA	
	The EMT, Cancer and the Stem Cell State	
	Guy Roukens, University Medical Center Utrecht, Netherlands Short Talk: SOX4 Is Required for Maintaining Stem Cell Identity in Mammary Tumors	
	Binwu Tang, NCI, National Institutes of Health, USA Short Talk: Elucidating the Role of Breast Cancer Stem Cells in Early Metastasis through Direct Visualization and Quantitation	
18:00	On Own for Dinner	
	No registration fees are used to fund alcohol served at this function.	
TUESDAY, MARC	H 19	
08:30-11:45	Metabolism Meets Cancer Metastasis Registered attendees can view abstracts starting on 02/15/2019	Basilica
	* Michael Potente, Max Planck Institute for Heart and Lung Research, Germany	
	M. Celeste Simon, University of Pennsylvania, USA Metabolic Symbioses in the Tumor Micorenvironment	

Sohail F. Tavazoie, Rockefeller University, USA Innate Immune and Metabolic Regulation of Metastatic Progression

Coffee Break

Sarah-Maria Fendt, VIB Leuven, Belgium Cancer Metabolism during Metastasis Formation

<u>Arkaitz Carracedo</u>, Center for Cooperative Research in Biosciences, Spain Signaling and Metabolic Plasticity in the Process of Prostate Cancer Metastasis

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	Ana Patricia Gomes, Weill Cornell Medicine, USA Short Talk: Age-Induced Methylmalonic Acid Accumulation Promotes Cancer Progression and Metastasis Formation	
	Emily Jane Kay, Beatson Institute, UK Short Talk: Pyruvate Dehydrogenase: The Key to Epigenetic Regulation of Mammary CAFs	
	Yulia Panina, Francis Crick Institute, UK Short Talk: Using Mass Spectrometry Imaging to Identify Metabolic Adaptations during Metastasis of MYC-Driven Tumors	
11:45–17:00	On Own for Lunch	
15:30–16:00	Coffee Available	Arsenale
16:00–17:45	Commensal Interactions: Implications for Immunity and Cancer	Basilica
	Registered attendees can view abstracts starting on 02/15/2019	
	* Russell G. Jones, Van Andel Research Institute, USA	
	Filipe J. Gomes Cabreiro, University College London, UK Host-Microbe-Drug-Nutrient Interactions- A Holistic Approach for Cancer Treatment	
	<u>Jennifer Ann Wargo</u> , University of Texas MD Anderson Cancer Center, USA The Gut Microbiome and PD-1 Therapy in Melanoma	
	<u>Nicholas Chia</u> , Mayo Clinic, USA Distinct Microbes, Metabolites and Ecologies Define the Microbiome in Deficient and Proficient Mismatch Repair Colorectal Cancers	
17:45–18:00	Meeting Wrap-Up: Outcomes and Future Directions (Organizers)	Basilica
	Registered attendees can view abstracts starting on 02/15/2019	
18:00—19:00	Social Hour with Lite Bites	Arsenale
	No registration fees are used to fund alcohol served at this function.	
19:00-22:00	Entertainment	Arsenale
	Entertainment is not subsidized by conference registration fees nor any U.S. federal	

WEDNESDAY, MARCH 20

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Departure

*Session Chair †Invited, not yet responded.

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