

EACR

European Association
for Cancer Research

CONFERENCES

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EACR Conference

The Tumour Ecosystem: Cellular Interactions and Therapeutic Opportunities

19-21 March 2024 | Bergamo, Italy

Scientific Programme Committee

Neta Erez (Chair)

Leila Akkari

Johanna Joyce

Erik Sahai



Scan the QR code to access online conference resources, including speaker and poster abstracts

eacr.org/conference/tumourecosystem2024

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EACR Conference

**CANCER GENOMICS, MULTIOMICS
& COMPUTATIONAL BIOLOGY**

Bergamo, Italy

30 April - 02 May 2024

**EACR
2024**

10-13 June 2024
Rotterdam
Netherlands

Join us for the EACR
Annual Congress

2024.eacr.org

European Association for Cancer Research

**EARLY CAREER
RESEARCHERS' CONFERENCE**

VIRTUAL EVENT
25 - 26 June 2024

EACR Conference

CANCER METABOLISM

Bilbao Spain

08 - 10 October 2024

EACR Conference

LIQUID BIOPSIES

Lyon, France

12 - 14 November 2024

EACR Conference

DEFENCE IS THE BEST ATTACK
Immuno-Oncology Breakthroughs

Barcelona, Spain

13 - 15 May 2025

EACR Conference

CANCER NEUROSCIENCE

Bilbao, Spain

14 - 16 October 2025

The Tumour Ecosystem: Cellular Interactions and Therapeutic Opportunities

Tag us  @EACRnews  @helloeacr | Wi-Fi: salaoggioni | Password: salaoggioni

Day 1 | Tuesday 19 March

From 11:30

REGISTRATION

Posters 1-67
can be put up

12:00-13:00

 WELCOME LUNCH

A chance to meet fellow attendees and enjoy a light buffet lunch

13:00-13:10

CONFERENCE WELCOME

Scientific Programme Committee

SESSION 1: FROM RESEARCH INSIGHTS TO THERAPEUTIC OPPORTUNITIES Chair: Neta Erez

13:10-13:45

Q&A: 13:45-13:55

OPENING KEYNOTE LECTURE

Douglas Hanahan Ludwig Cancer Research, Switzerland
"Immunosuppression in the tumour microenvironment, and beyond"

13:55-14:15

Q&A: 14:15-14:25

Yuval Shaked Technion-Israel Institute of Technology, Israel
"Immune-Mediated Extracellular Matrix Remodeling Promotes Tumor Resistance and Metastasis Following Anti-Cancer Therapy"

14:25-14:35

Q&A: 14:35-14:40

Nicoletta Caronni San Raffaele Scientific Institute, Italy
Proffered Paper 1: "IL-1 β + macrophages fuel pathogenic inflammation in pancreatic cancer"

14:40-14:50

EXHIBITOR INTRODUCTIONS

60-second intro pitches by each company

14:50-15:20

 COFFEE BREAK & EXHIBITION

15:20-15:40

Q&A: 15:40-15:50

Adrienne Boire MSKCC, USA
"Cancer growth in a nutritional desert: Leptomeningeal Metastasis"

15:50-16:10


Q&A: 16:10-16:20

Johanna Joyce University of Lausanne, Switzerland
"Unravelling the Complexity of Cancer Ecosystems"

16:20-16:30

MOLECULAR ONCOLOGY CALL FOR CONTENT

Siddhi Maniyar FEBS, UK

16:30-16:40	POSTER SPOTLIGHTS <i>Posters 11, 12, 13 & 14 will be presented in short 3-minute 'flash talks'</i>
16:45-17:15	CANCERTOOLS.ORG SYMPOSIUM Dr Saverio Tardito Cancer Research UK Scotland Institute and University of Glasgow, UK "In vitro veritas: transforming cell culture with more physiological conditions"
17:15-17:45	NETWORKING QUIZ <i>Our fun, informal quiz offers conference participants the chance to make new connections on the first evening of the meeting</i>
17:45-18:30	 WELCOME RECEPTION <i>with drinks and a light buffet</i>
18:30-20:00	POSTER DISCUSSION SESSION 1 <i>Presenters of posters 1-67 should stand by their boards</i>

Day 2 | Wednesday 20 March

08:15-08:45	 EARLY POSTER VIEWING WITH COFFEE
08:45-09:00	INDUSTRY SPOTLIGHT - LUNAPHORE Alioune Ndoye Lunaphore "Accelerating spatial biology with COMET"
09:00-09:20	SESSION 2: THE MACROENVIRONMENT AND METABOLISM Chair: Douglas Hanahan
Q&A: 09:20-09:30	Leila Akkari NKI, Netherlands "Dissecting and rewiring myeloid cell heterogeneity in cancer"
09:30-09:40	Giulia Biffi University of Cambridge, UK
Q&A: 09:40-09:45	Proffered Paper 2: "SMAD4 loss in malignant cells drives a fibro-inflammatory microenvironment in pancreatic cancer"
09:45-10:05	Mariam Jamal-Hanjani UCL, UK
Q&A: 10:05-10:15	"Insights into lung cancer evolution and metastases in TRACERx and PEACE"
10:15-10:35	Mariia Yuneva The Francis Crick Institute, UK
Q&A: 10:35-10:45	"Dissecting metabolic heterogeneity and vulnerabilities of tumours"
10:45-11:15	 COFFEE BREAK & EXHIBITION

Take down posters 1-67

Posters 68-134 can be put up

11:15-11:35
Q&A: 11:35-11:45

Julio Aguirre-Ghiso Albert Einstein College of Medicine, USA
"Age-related clonal hematopoiesis (CH) serves as a host-derived driver of awakening of dormant disseminated breast cancer (BC) cells"

11:45-11:55
Q&A: 11:55-12:00

Monica Cassandras Dana-Farber Cancer Institute, USA
Proffered Paper 3: "Breast cancer metastasis: uncovering the role of chronic stress in immune evasion"

12:00-12:15

POSTER SPOTLIGHTS

Posters 78, 79, 80 & 81 will be presented in short 3-minute 'flash talks'

12:15-13:15

LUNCH & EXHIBITION

13:15-14:45

POSTER DISCUSSION SESSION 2

Presenters of posters 68-134 should stand by their boards

SESSION 3: ORGAN-SPECIFIC MICROENVIRONMENTS

Chair: Johanna Joyce

14:45-15:05
Q&A: 15:05-15:15

Neta Erez Tel Aviv University, Israel
"Stromal and Immune Plasticity Shape the Metastatic Microenvironment"

15:15-15:25
Q&A: 15:25-15:30

Yassmin Elbanna MSKCC, USA
Proffered Paper 4: "A Mechanoimmunological Basis for Metastatic Site Distribution"

15:30-15:40
Q&A: 15:40-15:45

Ye'ela Scharff Tel Aviv University, Israel
Proffered Paper 5: "Complement signaling is a hallmark of inflammatory fibroblasts in chronic diseases and cancer"

15:45-16:05
Q&A: 16:05-16:15

Erik Sahai The Francis Crick Institute, UK
"Why liver metastases are so hard to treat with immunotherapy"

16:15-16:45

COFFEE BREAK & EXHIBITION

16:45-17:05
Q&A: 17:05-17:15

Karin de Visser NKI, Netherlands
"Dissecting how breast tumours hijack myelopoiesis to promote metastasis"

17:15-17:35
Q&A: 17:35-17:45

Jean Albrengues Université Côte d'Azur, France
"Neutrophil extracellular traps formed during chemotherapy confer treatment resistance via TGF- β activation"

17:45-18:30

MEET THE EXPERTS

Neta Erez, Leila Akkari, Ruth Scherz-Shouval & Jean Albregues

19:30



OPTIONAL CONFERENCE DINNER

The conference dinner will be held at the atmospheric Ristorante Taverna Valtellinese, Optional ticketed event.

Day 3 | Thursday 21 March

08:15-08:45



EARLY POSTER VIEWING WITH COFFEE

08:45-09:00

INDUSTRY SPOTLIGHT - REACT4LIFE

Silvia Scaglione React4Life and National Research Council of Italy
"3D Humanized Tissue Cancer Models and Multi-Organ-on-Chip Platforms to Investigate Immune-Tumor Cellular Interactions and Test New Therapeutics"

SESSION 4: STROMAL AND IMMUNE CELLS SHAPE THE TME

Chair: Erik Sahai

09:00-09:20

Ruth Scherz-Shouval Weizmann Institute, Israel

Q&A: 09:20-09:30

"Transcriptional and functional plasticity of cancer-associated fibroblasts in the tumor microenvironment"

09:30-09:50

Sara Zanivan Cancer Research UK Scotland Institute, UK

Q&A: 09:50-10:00

"Harnessing CAF metabolism to create an anti-tumour microenvironment"

10:00-10:10

Antoinette van Weverwijk NKI, Netherlands

Q&A: 10:10-10:15

Proffered Paper 6: "Distinct p53 hotspot mutations differentially regulate immune composition and immunotherapy response in breast cancer"

10:15-10:45



COFFEE BREAK & EXHIBITION

10:45-11:05

Santiago Zelenay Cancer Research UK Manchester Institute, UK

Q&A: 11:05-11:15

"Protumorigenic inflammation: a targetable immune checkpoint and a biomarker of immunotherapy response"

11:15-11:50

THE EMBO KEYNOTE LECTURE

Clare Isacke ICR, UK

Q&A: 11:50-12:00

"Targeting the tumour microenvironment to limit metastatic relapse"

12:00

SUMMARY, AWARDS AND DEPART

Travel grants

More information about EACR grants: eacr.org/travel-grant

EACR-Worldwide Cancer Research Travel Grants provide funds to help early-career EACR members and researchers based in low- or middle-income economy countries to participate in our conferences.



Congratulations to the recipients of the Travel Grants for this conference. Each recipient received a full registration free of charge and funds to assist with travel and accommodation costs.

**worldwide
cancer
research**

- **ANA FARIAS** UK
- **MOR HINDI MALOWANY** ISRAEL
- **TATIANA RIZOU** UK
- **GRETA MATTAVELLI** GERMANY
- **NGOZI D. AKINGBESOTE** USA
- **SHIHAO ZHU** CHINA
- **MICOL BARONIO** ITALY

Metastasis Research Society Travel Grant awarded to members of the Metastasis Research Society (MRS) who need financial assistance to attend the conference and present their work as an oral or poster presentation.



- **YE'ELA SCHARFF** ISRAEL

Supporters

We would like to thank the following grant providers:

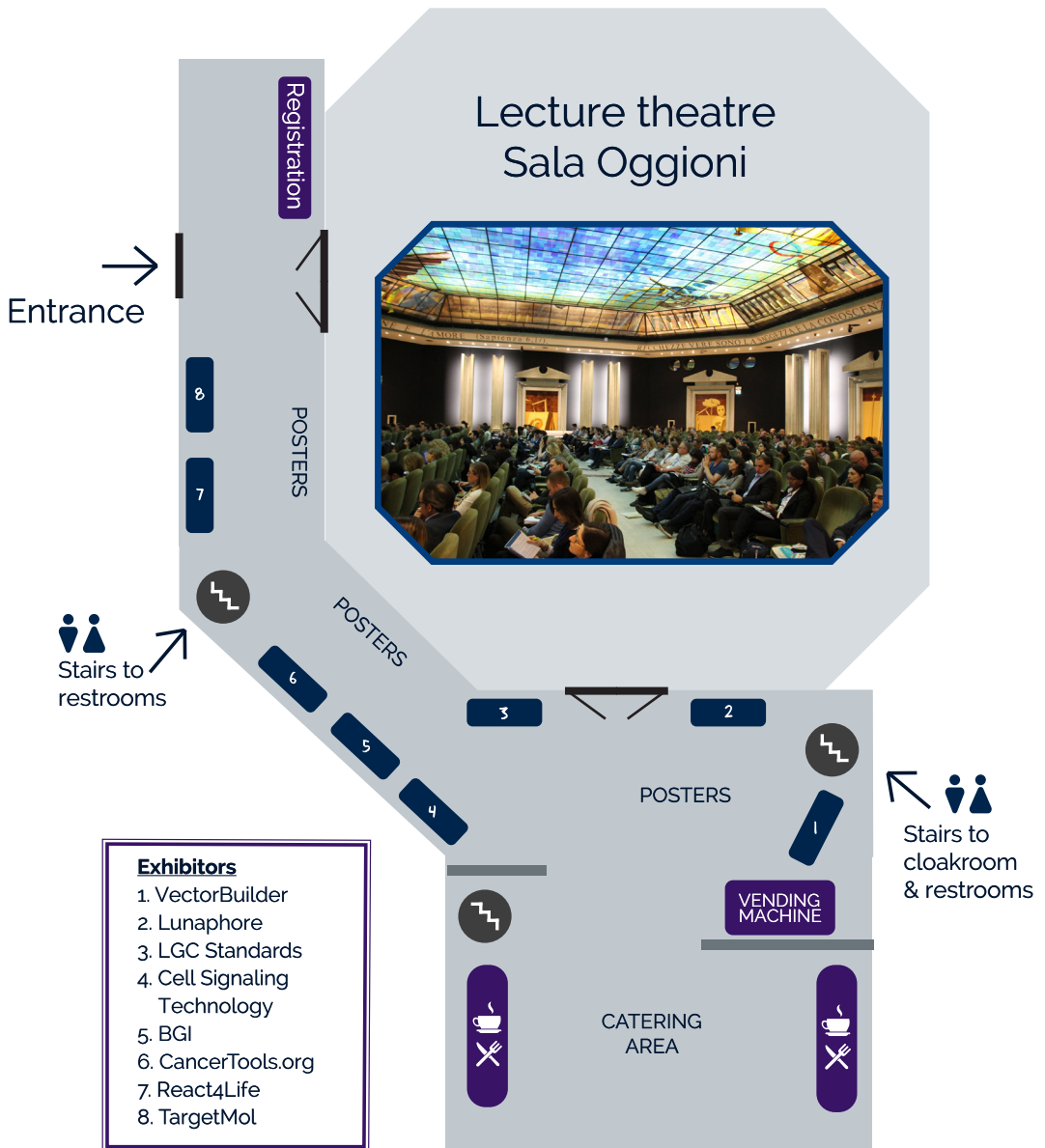


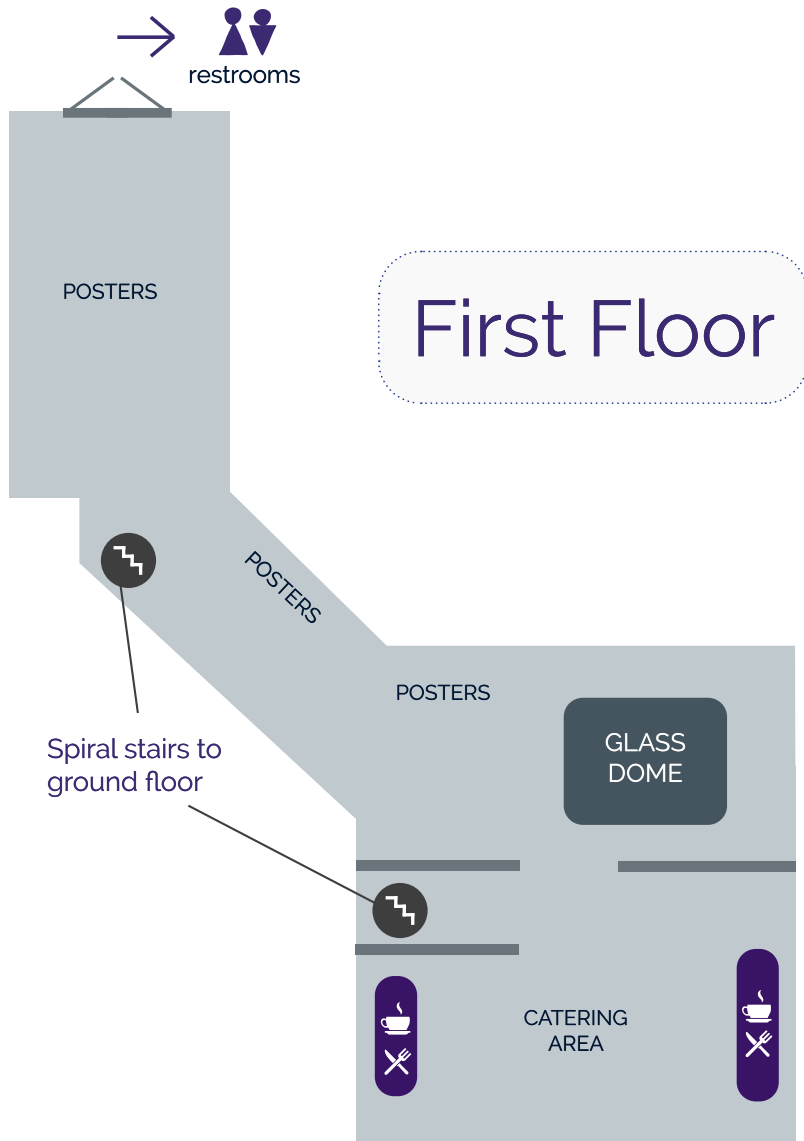
This activity has been supported by a grant from F. Hoffman-La Roche Ltd, which has had no control over the educational content of this activity.

Our thanks also to the following partners for supporting us in promoting this conference:



Venue floor plan





Meet the exhibitors

VectorBuilder Stand: 1

Website: en.vectorbuilder.com

Represented at the conference by:
Maria Blasco



Lunaphore Stand: 2

Website: www.lunaphore.com

Spotlight: Wednesday 20 March | 08:45-09:00

Alioune Ndoye, Lunaphore
'Accelerating spatial biology with COMET'

Represented at the conference by:
Victoria Wosika, Alioune Ndoye



LGC Standards Stand: 3

Website: www.lgcstandards.com

Represented at the conference by:
Jessica Scopini



Cell Signaling Technology Stand: 4

Website: www.cellsignal.com

Represented at the conference by:
Andrew Thompson, Maxime Jacquet



BGI Stand: 5

Website: www.bgi.com/global

Represented at the conference by:
Junchi Chen, Jingyi Long



CancerTools.org Stand: 6

Website: www.cancertools.org

Symposium: Tuesday 19 March | 16:30-17:00

Dr Saverio Tardito, Cancer Research UK Scotland Institute and University of Glasgow UK

'In vitro veritas: transforming cell culture with more physiological conditions'

Represented at the conference by:

Maya Alestwani, Saverio Tardito



React4Life Stand: 7

Website: www.react4life.com

Spotlight: Thursday 21 March | 08:45-09:00

Silvia Scaglione, React4Life and National Research Council of Italy
'3D Humanized Tissue Cancer Models and Multi-Organ-on-Chip Platforms to Investigate Immune-Tumor Cellular Interactions and Test New Therapies'

Represented at the conference by:

Maurizio Aiello, Silvia Scaglione



TargetMol stand: 8

Website: www.targetmol.com

Represented at the conference by:

Hong Chen



Poster index

View abstracts when logged-in at www.eacr.org/conference/tumourecosystem2024

- 1 Targeting the Rho effector kinase PKN2 in stroma to modulate breast tumour microenvironment. Presented by Siti Munira Abd Jalil, Barts Cancer Institute, Queen Mary University of London, UK
- 2 Identification of lncRNAs as Predictive Biomarkers for Neoadjuvant Chemotherapy in Patients with Locally Advanced Breast Cancer Through Transcriptomics. Presented by Cristian Arriaga-Canon, National Cancer Institute, CDMX, MEXICO
- 3 Teneurin 4 as a novel target for immunotherapy in triple negative breast cancer Presented by Zobia Arshad, University of Torino, ITALY
- 4 Exploring Prostate Carcinoma Tropism to Bone: Investigating the Role of Citrate Using a Microfluidic Bone-on-a-Chip Platform Presented by Sofia Avnet, University of Bologna, ITALY
- 5 Extracellular amyloid fibrils activate mechano-signaling in cancer Presented by Angela Bachi, IFOM, Milano, ITALY
- 6 Chromodomain Helicase DNA-binding Protein 4 (CHD4) suppresses TGF-SMAD signaling in breast cancer cells Presented by Yu Bai, Uppsala University, SWEDEN
- 7 Acute and long-lasting immunological changes in prostate cancer patients treated with different radiotherapy protocols Presented by Katalin Balázs, National Centre for Public Health and Pharmacy, Budapest, HUNGARY
- 8 Surgical resection of glioblastoma causes postoperative ischemia leading to changes in the tumor microenvironment and tumor plasticity Presented by Alberto Ballestin, Institut Curie, Paris, FRANCE and NKI, Amsterdam, NETHERLANDS
- 9 Crosstalk between tumour vasculature and ovarian cancer stem cells: the role of L1CAM Presented by Micol Baronio, IRCCS, Milan, ITALY
- 10 Tumor microenvironment-induced FOXM1 regulates ovarian cancer stemness Presented by Chiara Battistini, IRCCS, Milan, ITALY
- 11 **[POSTER SPOTLIGHT]** MultiOmics Analysis Of Breast Cancer Response To Exercise And Immunotherapy in Mice Presented by Ngozi Akingbesote, Yale School of Medicine, New Haven, Connecticut, USA
- 12 **[POSTER SPOTLIGHT]** Unveiling the molecular mechanisms of tumor dormancy to prevent recurrence in hormone receptor positive breast cancer patients Presented by Alessandra Riggio, University of Utah, Salt Lake City, USA

- 13 **IPOSTER SPOTLIGHT** By perturbing fibroblast polarization, stromal LYN kinase expression in the microenvironment is immunomodulatory and promotes viability of chronic lymphocytic leukemia cells. Presented by Alexander vom Stein, University of Cologne, GERMANY
- 14 **IPOSTER SPOTLIGHT** FMRP Upregulation in Cancer: Implications for Cancer-Associated Fibroblasts and Immune Modulation Presented by Simge Yücel, EPFL and Agora Cancer Research Center, Lausanne, SWITZERLAND
- 15 Defining iCAF- and myCAF-subtype specific signatures predictive of patient outcome in skin cancer Presented by Erin Beebe, University of Zürich, SWITZERLAND
- 16 Fibronectin fragments generated by pancreatic trypsin affect pancreatic tumor growth through inhibition of FGFR1 and FAK signaling. Presented by Dorina Belotti, IRCCS, Bergamo, ITALY
- 17 High IL-8 expression in LKB1-mutated Non-Small Cell Lung Cancer (NSCLC) induces neutrophils chemo-attraction Presented by Francesca Benelli, IRCCS, Milan, ITALY
- 18 Functional characterization of T cell infiltrate in STS patients Presented by Laura Bergamaschi, IRCCS, Milan, ITALY
- 19 Unveiling the effects of BACE2-mediated tumor microenvironment remodelling on Tumor-Associated Macrophages in Pancreatic Ductal Adenocarcinoma Presented by Nicol Berti, IFOM, Milan, ITALY
- 20 B cells facilitate lymph node colonization in pancreatic ductal adenocarcinoma Presented by Alice Bertocchi, Dana-Farber Cancer Institute and Harvard Medical School, MA, USA
- 21 Investigating the Role of Adhesion Proteins in Immune Modulation of Glioblastoma Presented by Annabel Black, University of Edinburgh, UK
- 22 Extracellular vesicles (EVs) derived from KRAS/LKB1 co-mutated Non Small Cell Lung Cancer sustain an inflammatory-like phenotype in fibroblasts Presented by Cristina Borzi, IRCCS, Milan, ITALY
- 23 ACPA reverses the transformation of human normal lung fibroblasts to cancer-associated fibroblast phenotype through non-small cell lung cancer-derived exosome delivery in the tumor microenvironment Presented by Ozge Boyacioglu, Hacettepe University and Atılım University, Ankara, TURKEY
- 24 PTEN deficiency exposes a requirement for an ARF GTPase module for integrin-dependent invasion in ovarian cancer Presented by David Bryant, University of Glasgow and CRUK Scotland Institute, Glasgow, UK
- 25 The role of WWOX tumor suppressor gene in the regulation of EMT process in breast cancer tamoxifen resistance Presented by Ebrucan Bulut, Bursa Uludağ University, TURKEY
- 26 Exploit neutrophil heterogeneity to induce synthetic lethality in breast cancer Presented by Arianna Calcinotto, Institute of Oncology Research, Bellinzona and Università della Svizzera Italiana, Lugano, SWITZERLAND

- 27 Unraveling the role of the chemokine CXCL12 in CXCR4-driven antitumor immune responses Presented by Francesca Caprioglio, Vita-Salute San Raffaele University, Milan, ITALY
- 28 Role of thrombospondin-1 in a model of breast cancer dormancy Presented by Elena Carlessi, IRCCS, Bergamo, ITALY
- 29 Role of Thrombospondin-1 in the microenvironment of osteolytic bone metastases Presented by Laura Carminati, IRCCS, Bergamo, ITALY
- 30 Role of LOXL2 in the pro-invasive behavior and therapy-induced stromal matrix remodeling of melanoma Presented by Alexandrine Carminati, INSERM U1065 C3M, Nice, FRANCE
- 31 -Secretase 2 (BACE2) Inhibition as a Potential Approach for Treating Ewing Sarcoma Presented by Revital Caspi, Sheba Medical Center, Ramat-Gan and Tel Aviv University, ISRAEL
- 32 Single-cell and spatial profiling reveal fibroblast niches in triple-negative breast cancer draining lymph nodes Presented by Ana Cetkovic, University Hospital Würzburg, GERMANY
- 33 A humanized PDX mouse model for translational immuno-oncology research and cancer immunotherapy Presented by Anna Chen, Medical University of Vienna and Comprehensive Cancer Center, Vienna, AUSTRIA
- 34 Conditioned medium from amniotic membrane affects ovarian cancer cell viability and migration Presented by Paola Chiodeli, Università Cattolica del Sacro Cuore, Rome, ITALY
- 35 Spatial Multiomics Reveal Intratumoral Immune Heterogeneity with Distinct Cytokine Networks in Lung Cancer Brain Metastases Presented by Gustav Christensson, Lund University, SWEDEN
- 36 Clusterin promotes cell motility via ECM degradation and cytoskeleton reorganization in triple-negative breast cancer cells Presented by Alessia Ciringione, University of Parma, ITALY
- 37 Lactate drives dendritic cell dysfunction and is linked to impaired T cell function in breast cancer. Presented by la Codinachs, Dana-Farber Cancer Institute, Boston, MA, USA
- 38 Targeting the HMGB1-CXCL12-CXCR4 axis to promote anti-tumor responses in Malignant Mesothelioma Presented by Liam Colley, HMGBiotech Srl and Università MilanoBicocca, Milan, ITALY
- 39 Identification of the lncRNA GATA3-AS1 as a Therapeutic Target in Locally Advanced Luminal Breast Cancer Patients Presented by Laura Contreras-Espinosa, Posgrado en Ciencias Biológicas, UNAM and National Cancer Institute of México, Ciudad de México, CDMX, MEXICO
- 40 Identification of cancer associated fibroblast subtypes in mucosal squamous cell carcinoma and their dynamics after ex vivo culture Presented by Daniela Elena Costea, University of Bergen and Haukeland University Hospital, Bergen, NORWAY

41 Directing the journey: Ionizing radiation modulates RNA-binding proteins to influence extracellular vesicle miRNA packaging in the bone marrow with direct consequences in radiation leukemogenesis Presented by Ilona Barbara Csordás, National Centre for Public Health and Pharmacy and Semmelweis University, Budapest, HUNGARY

42 Targeting tumour-microenvironment crosstalk to bypass resistance in HER2+ breast cancer patients Presented by Tiziana Daniele, IRCCS, Milan, ITALY

43 Unlocking drug resistance: How cancer-associated fibroblasts drive lipid metabolic changes in ALK-driven lung adenocarcinomas Presented by Ann-Kathrin Daum, DKFZ and DZL, Heidelberg, GERMANY

44 Patient-derived Hepatocellular Carcinoma on Chip models recapitulate Sorafenib and Lenvatinib induced vascular responses Presented by Sander de Ruiter, Mimetas BV, Oegstgeest, NETHERLANDS

45 Targeting Toll-like Receptor 2 improves therapy efficacy in breast cancer by disrupting the pro-tumoral crosstalk between cancer cells and tumor microenvironment Presented by Antonino Di Lorenzo, University of Torino, ITALY

46 Dissecting Peripheral Nerve-Cell Interactions in Osteosarcoma Presented by Gemma Di Pompo, IRCCS Istituto Ortopedico Rizzoli, Bologna, ITALY

47 Developing Patient-Derived Matrix for in-vitro Culture of 3D Vulva Cancer Models Presented by Rammah Elnour, University of Bergen, NORWAY

48 Evaluating miRNA Expression During Fibroblast Reprogramming Presented by Adel Fergatova, Carnegie Mellon University, Doha, QATAR

49 Regulatory T cells but not tumour infiltrating lymphocytes correlate with tumour invasion depth in basal cell carcinoma Presented by Paranita Ferronika, Universitas Gadjah Mada/Dr. Sardjito Hospital, Yogyakarta, INDONESIA

50 Liprin-1 contributes to oncogenic MAPK signaling by counteracting ERK activity Presented by Artemis Filippou, University of Helsinki, FINLAND

51 The immunomodulatory role of mast cells in the bladder cancer microenvironment Presented by Lucija Franković, University of Split, CROATIA

52 Exploring the therapeutic effect of K⁺ channel agonism on disseminated breast cancer Presented by Alexa Gajda, University of Illinois, Chicago, IL, USA

53 Dynamic interplay of tumor initiating cells and its immune niche during early breast cancer development. Presented by Debolina Ganguly, Dana Farber Cancer Institute and Harvard Medical School, Boston, USA

54 Unraveling cellular crosstalk in liver metastases of gastrointestinal cancer: Multimodal analysis of metastatic invasion Presented by Natalie Geyer, Karolinska Institutet, Huddinge, SWEDEN

55 Mechanical activation of the collagen receptors DDR1 and DDR2 increases dedifferentiated melanoma cell aggressiveness through an actomyosin/YAP pathway Presented by Christophe. A. Girard, INSERM, Nice, FRANCE

56 Characterising the tumour microenvironment of colorectal liver metastasis with imaging mass cytometry and single cell transcriptomics. Presented by Jayden Gittens, University of Liverpool, UK

57 Communication Between Peri-Prostatic Adipocytes and Epithelial Cells Drives Prostate Cancer Progression in Obese Men Presented by Nil Grunberg, Imperial College, London, UK

58 Sublethal T cell hits induce melanoma cell senescence during immunothermal-therapy Presented by Oliver Hihn, Eberhard Karls University Tübingen, GERMANY

59 Unraveling transcriptional and functional plasticity of stromal cells in colitis and colorectal cancer Presented by Mor Hindi Malowany, Weizmann Institute Of Science, Rehovot, ISRAEL

60 Control of immunosuppressive hubs in spatially heterogeneous solid cancers Presented by Lauren Hsu, Harvard University and Dana-Farber Cancer Institute, Boston, MA, USA

61 Endothelial pyrimidine synthesis deficiency promotes tumor growth Presented by Petra Hyrossova, Czech Academy of Sciences, Prague, CZECH REPUBLIC

62 Altered NF- κ B splicing drives vicious crosstalk between colon cancer cells and their neighboring cells in the tumor microenvironment Presented by Carol Imbriano, University of Modena, ITALY

63 Myrtucommulone-A augments the effects of cisplatin and epirubicin through the suppression of epithelial-mesenchymal transition-related markers in cancer cells Presented by Banu Iskender Izgi, Kocaeli University, TURKEY

64 Immature neutrophils acquire a macrophage-like phenotype in metastasis Presented by Aikaterini Kafka, Barts Cancer Institute, London, UK

65 Cancer associated fibroblasts regulate the purinergic pathway in non-small cell lung cancer (NSCLC) Presented by Lilian Koppensteiner, University of Edinburgh, UK

66 Exploring resistance to immunotherapy in oral cancer using organoid technology Presented by Kai Kretzschmar, University Hospital Würzburg, GERMANY

67 DNase treatment potentiates cytotoxic effect of cisplatin in chemoresistant germ cell tumors Presented by Lucia Kucerova, Comenius University and Cancer Research Institute, Bratislava, SLOVAK REPUBLIC

68 Tissue engineered 3D lung tumor model reveals sulfation-induced tumor cell growth, stemness and invasion. Presented by Alican Kuşoğlu, Koç University, Istanbul, TURKEY

69 Analysis of the data from three-dimensional cultures of glioblastoma models brings new insights into the role of chemokine network Presented by Mieszko Lachota, Medical University of Warsaw, POLAND

70 Spatial dynamics of oxidative stress and hypoxia in the tumor-immune interplay in triple-negative breast cancer Presented by Inga-Maria Launonen, University of Helsinki, FINLAND

71 Bone marrow-derived extracellular vesicles influence radiation-induced leukemogenesis Presented by Katalin Lumniczky, National Centre for Public Health and Pharmacy, Budapest, HUNGARY

72 PCSK9 triggers liver sinusoidal endothelial cells proangiogenic phenotype during colorectal hepatic metastasis Presented by Ander Martin San Sebastian, University of the Basque Country, SPAIN and INSERM, Bordeaux, FRANCE

73 Inhibition of Rac1 GTPase increases the aggressiveness of cancer associated fibroblasts and favours breast tumor development Presented by Angelica Martínez-López, Universidad Complutense de Madrid and FIBHCSC, Madrid, SPAIN

74 Tumor-draining lymph node fibroblasts support pre-metastatic niche formation by promoting immunosuppressive cellular networks Presented by Greta Mattavelli, University Hospital Würzburg, GERMANY

75 Eribulin pre-treatment improves tumor distribution of docetaxel in leiomyosarcoma xenograft. Presented by Cristina Matteo, IRCCS, Milano, ITALY

76 Investigating cell-extrinsic signalling drivers of cell plasticity in colorectal cancer metastasis Presented by Nasrine Metic, Barts Cancer Institute and Queen Mary University, London, UK

77 Development of a 42 marker panel for in-depth studies of cancer associated fibroblast niches in breast cancer using imaging mass cytometry Presented by Vladan Milosevic, University of Bergen, NORWAY

78 **[POSTER SPOTLIGHT]** Type I interferons induced upon RSV infection change the lung microenvironment and impair seeding of lung metastatic breast cancer cells Presented by Ana Farias, Imperial College London, UK

79 **[POSTER SPOTLIGHT]** Immune Surveillance of Intestinal Stem Cells during Tumor Initiation Presented by Kelly McGovern, Dana Farber Cancer Institute and Harvard Medical School, Boston, Massachusetts, USA

80 **[POSTER SPOTLIGHT]** An extramedullary bone model to study metastatic dormancy reveals a piecemeal model for metastatic reactivation Presented by Tatiana Rizou, Francis Crick Institute, London, UK

81 **[POSTER SPOTLIGHT]** TLR4-mediated interactions between macrophages and fibroblasts facilitate melanoma lung metastasis Presented by Tamar Shami, Tel Aviv university, ISRAEL

82 Rearrangements of peritumoral tissue that occur along with glioma progression Presented by Elisabetta Mori, Scuola Normale Superiore and CNR Neuroscience Institute, Pisa, ITALY

83 Statins attenuate Melanoma Brain Metastasis by Metabolic and Immune Reprogramming within the Brain Microenvironment Presented by Dhanashree Mundhe, Tel Aviv University, ISRAEL

- 84 The impact of ER stress on gamma delta T cells in the tumor microenvironment Presented by Giorgia Nasi, University of Salzburg, AUSTRIA
- 85 Targeting the bone matrix with liposomes to trigger the tumor microenvironment Presented by Claudia Nastasi, Department of Oncology, Cancer Pharmacology Lab, Milan, ITALY
- 86 Intratumor Heterogeneity in Colorectal Cancer Presented by Ines Neuwirth, Medical University of Vienna and Comprehensive Cancer Center Vienna, AUSTRIA
- 87 Uridine phosphorylase 1 mediated metabolic reprogramming as a driver of hepatocellular carcinoma progression Presented by Gregor Ortmayr, Center for Cancer Research, Vienna, AUSTRIA
- 88 Modelling Angiogenesis in the 3D Lung Tumor Microenvironment Presented by Sena Nur Özkan, Koç University and Research Center for Translational Medicine (KUTTAM), Istanbul, TURKEY
- 89 Uncovering the Cellular Function of the Poorly Characterised Protein KIAA1522 in Cancer Cell Migration with Functional Imaging and Structural Modelling Presented by Tommy Pallett, King's College London, UK
- 90 Role of Cartilage Oligomeric Matrix Protein in regulation of tumor microenvironment in gastrointestinal cancers. Presented by Konstantinos Papadakos, Lund University, Malmö, SWEDEN
- 91 Extracellular vesicles derived from M1 pro-inflammatory macrophages induce melanoma cell invasion by upregulating MMP9 via NFkB signaling Presented by Sanna Pasonen-Seppänen, University of Eastern Finland, Kuopio, FINLAND
- 92 Unveiling the Role of Cancer-Associated Fibroblast Subpopulations in the Tumor Microenvironment of Bone Metastasis Presented by Alessandro Pasquarelli, Department of Biomedical and Neuromotor Sciences, Bologna, ITALY
- 93 PEA3 transcription factors are prognostic biomarkers of response to anti-EGFR therapy in metastatic colorectal cancer Presented by Paula Paulo, IPO Porto and University of Porto, PORTUGAL
- 94 IL1RAP targeting as a new therapeutic strategy for advanced triple negative breast cancer Presented by Paloma Petit, Biogipuzkoa Health Research Institute, San Sebastian, SPAIN
- 95 Investigating the immune microenvironment role in precancerous development at the anorectal transition zone Presented by Chloé Petitpas, CRCM, Marseille, FRANCE
- 96 Exploring the role of cancer-associated fibroblasts and Immune responses to PARP Inhibition in homologous recombination deficient breast cancer Presented by Su Myat Phyu, University of Oxford, UK

- 97 Single-nuclei RNA sequencing characterization of the ecosystem of pre-treated liver metastasis of colorectal cancer reveals a cancer-associated fibroblast subtype associated with early-relapse. Presented by Maelle Picard, CRCM, Marseille, FRANCE
- 98 Single-cell and functional phenotyping analysis of glioblastoma infiltrative margin Presented by Sara G.M. Piccirillo, University of New Mexico Health Sciences Center, Albuquerque, USA
- 99 Bone marrow stromal protective microenvironment in leukemia: metabolic plasticity and resistance driven by direct intercellular transfer of vesicles and proteins Presented by Katarzyna Piwocka, Polish Academy of Sciences, Warszawa, POLAND
- 100 Co-delivery of Doxorubicin and anti-PD-L1 siRNA with human heavy chain ferritin (HFn) nanoparticle for acute myeloid leukemia treatment. Presented by Misagh Rajabinejad, Mazandaran University of Medical Science, Sari, IRAN
- 101 Dual epithelial and stromal targeting in triple negative breast cancer using ROCK2 inhibition Presented by Daniel Reed, Garvan Institute of Medical Research and St Vincents's Clinical School, Sydney, AUSTRALIA
- 102 Extracellular matrix immunomodulatory actions within the tumor microenvironment: the axis ADAMTS1/NIDOGEN 1 Presented by Rita Caracuel-Peramos, Genyo (Pfizer-University of Granada-Junta de Andalucia Centre for Genomics and Oncological Research), Granada, SPAIN
- 103 Structural characterization of the ankyrin-repeat containing oncoprotein Gankyrin in the presence of small molecules Presented by Maryam Riyazi, Clark University, Worcester, USA
- 104 Ovarian cancer cell line scretomes and TGF- induce different CAF-like phenotypes and properties: a 2D and 3D study Presented by Jacopo Romoli, Università Cattolica del Sacro Cuore, Roma, ITALY
- 105 Cystine/glutamate antiporter xCT deficiency reduces metastasis without impairing immune system function in breast cancer mouse models Presented by Roberto Ruiu, University of Turin, ITALY
- 106 EFEMP1 contributes to lung metastasis formation in osteosarcoma Presented by Gabriela Sampaio-Ribeiro, University of Coimbra, PORTUGAL
- 107 Unraveling the role of HER2+ breast cancer cells-derived secretome on blood-brain barrier dysfunction in premetastatic niche formation Presented by Liliana Santos, iCBR and CIBIT/ICNAS, Coimbra, PORTUGAL
- 108 E2F1, E2F2, and E2F3 are responsible for controlling the expression of ABCG2 Presented by Mohamed Sarhan, Julius Maximilians University of Würzburg, GERMANY
- 109 Effect of Tumor-Mimetic Matrices on Therapeutic Responses of Lung Adenocarcinoma Presented by Sevgi Sarica, Koç University, İstanbul, TURKEY

- 110 Progressive 3D Humanized Tissue Cancer Models and Multi-Organ-on-Chip Platforms to Investigate Immune-Tumor cellular Interactions and test new therapeutics Presented by Silvia Scaglione, CNR and React4life, ITALY
- 111 VC-Resist glioblastoma cell state: vessel co-option as a key driver of chemoradiation resistance Presented by Giorgio Seano, Université Paris-Saclay, Orsay, FRANCE
- 112 Potential benefits of Vitamin C-Derivative 2PLAA in metastatic head and neck cancer cells Presented by Didem Seven, Yeditepe University School of Medicine, Istanbul, TURKEY
- 114 Neoantigen-Related immune ecosystem and its clinical relevances of early-stage lung adenocarcinoma Presented by Shensi Shen, West China Hospital, Chengdu, P.R. CHINA
- 113 SERBP1 Promotes an Immunosuppressive Microenvironment by Activating STING Signaling in Pancreatic Cancer Presented by Wan-Jou Shen, China Medical University, Taichung, TAIWAN ROC
- 115 Engineered construct of NLRC5 for cancer immunotherapy to restore MHC-I expression Presented by Akhil Shukla, Universite de Sherbrooke, Quebec, CANADA
- 116 IFITM1 in Cancer Cell Growth and Therapy Resistance: a Structural-Functional Analysis. Presented by Yolanda Solans Bara, The University of Edinburgh, UK
- 117 Class I Histone Deacetylases as potential regulators of the emergence of cancer-associated fibroblast phenotypes Presented by Maria Subijana, IBBTEC, Santander, SPAIN
- 118 Genomic and Evolutionary Profiling of Breast Cancer Reveals Diverse Trajectories in Normal Adjacent Tissue and Tumour Pairs Presented by Avraam Tapinos, University of Manchester, UK
- 119 Tumor vascular remodeling activity of thrombospondin-1: insights and therapeutic opportunities Presented by Giulia Taraboletti, IRCCS, Bergamo, ITALY
- 120 Asparagine transport through SLC1A5/ASCT2 and SLC38A5/SNAT5 is essential for BCP-ALL cell survival Presented by Giuseppe Taurino, University of Parma, ITALY
- 121 Resolvin D5 boosts antitumor immunity by modulating cancer- CD8 T cell cross talk. Presented by Maria Tredicine, "G. D'Annunzio" University of Chieti - Pescara, ITALY
- 122 Metabolic Profiling of Extracellular Vesicles from Ascitic Fluids of Ovarian Cancer Patients Presented by Gonçalo Trindade, IBET, Instituto de Biologia Experimental e Tecnológica and Universidade NOVA de Lisboa, Oeiras, PORTUGAL
- 123 Multifunctional role of stroma-derived CD44 protein in reprogramming of chronic myeloid leukemia cells Presented by Laura Tuross-Korgul, Nencki Institute of Experimental Biology PAS, Warsaw, POLAND

- 124 Enhanced co-culture model of human pancreatic adenocarcinoma cells and fibroblasts to improve reliability in drug testing Presented by Maria Urbanova, Slovak Academy of Sciences, Bratislava, SLOVAK REPUBLIC
- 125 Disruption of the pentraxin 3/CD44 interaction as an efficient therapy for cancer therapy Presented by Ju-Ming Wang, National Cheng Kung University, Tainan, TAIWAN ROC
- 126 Improving Tumor Response to Anthracycline Therapy by Inhibiting Galectin-9 and Enhancing Antitumor Immunity Presented by Wei-Jan Wang, China Medical University, Taichung, TAIWAN ROC
- 127 Tertiary lymphoid structures in high-grade serous tubo-ovarian cancer – site matters. Presented by Sofia Westbom Fremer, Lund University, SWEDEN
- 128 Automated multiplex immunofluorescence enables single cell analysis of tumor stroma Presented by Victoria Wosika, Lunaphore Technologies, Tolochenaz, SWITZERLAND
- 129 The mechanism of breast cancer cell resistance to chemotherapy Presented by Esraa Yousif, Pavol Jozef Safarik University, Kosice, SLOVAK REPUBLIC
- 130 Pan-cancer tumour immune microenvironment classification based on fractions of immune cell types predicts the efficacy of immunotherapy. Presented by Andrey Yurchenko, Université Paris Saclay, Villejuif, FRANCE
- 131 Investigating novel matrisomal targets in PC to reduce fibrosis and improve standard-of-care chemotherapy. Presented by Jessie Zhu, Garvan Institute Of Medical Research and St Vincent's Clinical School, Sydney, AUSTRALIA
- 132 The Impact of Epithelial Cells and Fibroblasts Co-evolution and Aberrant Epithelial Cell Interactions During Precancerous Stages on the Development of Esophageal Squamous Cell Carcinoma Presented by Shihao Zhu, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, P.R. CHINA
- 133 NETs Formation May Serve as a Prognostic Biomarker in Ewing Sarcoma Presented by Rachel Zicherman, Pediatric Hemato-Oncology Research Laboratory and Tel Aviv University, Tel Aviv-Yafo, ISRAEL
- 134 Dissecting intraperitoneal immune microenvironment in metastatic colorectal cancer patients Presented by Marta Zorza, IRCCS, Milan, ITALY

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Hannah Barrs
Conference Officer



Kathryn Wass
Programmes Manager



Miho Yang
Finance Assistant



Alexandra Boitor
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Conference dinner

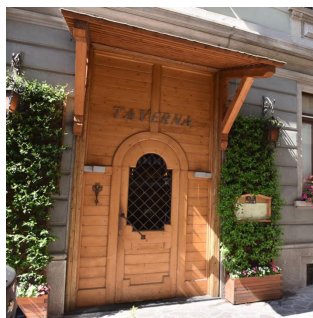
Optional ticketed event: Wednesday 20 March, 19:30

The conference dinner will take place on the final night of the meeting at the atmospheric Ristorante Taverna Valtellinese, a short walk from the conference venue. It will be an excellent opportunity for participants and speakers to get to know each other in a relaxed and informal environment.

A four-course meal will be served, with wine and coffee included in the ticket price.

Venue

Taverna Valtellinese
Via G. Tiraboschi 57
24122 Bergamo
www.tavernavaltellinese.it



Directions from the conference venue

It takes less than 10 minutes to walk from the conference venue to the dinner venue. Head north-west on Viale Papa Giovanni XXIII, turn left onto Largo Porta Nuova, which becomes Via G. Tiraboschi. The entrance to the Taverna is just down the side street called Passeggiata Zeduri.

EACR Industry Partners

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