



# ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

TO PAY A PERMANENT TRIBUTE TO GALILEO GALILEI, FOUNDER OF MODERN SCIENCE  
AND TO ENRICO FERMI, "THE ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



## INTERNATIONAL SCHOOL OF PHARMACOLOGY "GIAMPAOLO VELO"

DIRECTORS: M. LINDQUIST, P. MINUZ, U. MORETTI

International course on

## CANCER AND CARDIOVASCULAR DISEASES: COMMON MECHANISMS AND STRATEGIES OF PREVENTION

July 27<sup>th</sup> arrival – 30<sup>th</sup> departure 2025 in Erice, Italy

Scientific sessions will start on 28<sup>th</sup> July at 9 a.m. and will end on 30<sup>th</sup> July at 1 p.m.

Course Directors: Vincenzo Bronte, Bernhard Brüne, Pietro Minuz, Paola Patrignani, Dieter Steinhilber

Aim of the course is to focus on recent scientific knowledge about common mechanistic, pathophysiological, clinical and therapeutic aspects in cancer and cardiovascular disease. High-quality speakers will guide young researchers in these advanced topics by presenting their recent research results. In the tradition of the School, young course participants are encouraged to actively participate in the discussion and present the results of their scientific work as posters or short oral communications.

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## PROGRAMME

### Sunday 27<sup>th</sup> July

15:00	Arrival Palermo/Trapani Airport
17:00	Arrival Erice
20:00	Welcome Dinner – free choice from the restaurants' list
22:00	Get together. Marsala wine and Sicilian pastries in San Rocco cellar.

### Monday 28<sup>th</sup> July

7:30	Breakfast
9:00	<b>Introduction to the Course</b> Course Directors: Vincenzo Bronte, Bernhard Brüne, Pietro Minuz, Paola Patrignani, Dieter Steinhilber



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### Scientific Session I:

#### Platelets and metabolism in cancer

9:15	Sabina Sangaletti, Italy - The detrimental alliance between Megakaryocytes, Neutrophils and Neutrophils extracellular traps in lung cancer progression
9:45	Paola Patrignani, Italy - Platelets, a biomarker and therapeutic target for cancer and metastasis
10:15	Michael Holinstat, USA - 12-Lipoxygenase represents a novel target for regulation of platelet activity and thrombosis in Heparin-induced thrombocytopenia
10:45	Coffee Break
11:00	Salvatore Cortellino, Italy - Metabolic Regulation of Immune Responses
11:30	Ingrid Fleming, Germany - PUFA metabolites in cancer and cardiovascular disease
12:00	Lunch Break

### Scientific Session II:

#### Immunity in cancer and cardiovascular disease

14:00	Vincenzo Bronte, Italy - Myeloid cells and immune evasion in cancer
14:30	Stefan Chlopicki, Poland - Endothelial Dysfunction in Cancer: Detrimental Effects of Anti-Cancer Treatment on Endothelial Function
15:00	Dominik Fuhrmann, Germany - Ferroptosis - Implications of Macrophages in the Tumor Context
15:30	Marinos Kallikourdis, Italy - Unexpected roles of T cells in oncological and cardiovascular disease
16:00	David Sacerdoti, Italy - From MAFLD to cirrhosis and hepatocellular carcinoma: role of inflammation and platelets



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16:30	Coffee Break and Guided Tour
20:00	Dinner
22:00	Marsala wine and Sicilian pastries in San Rocco cellar

## Tuesday 29<sup>th</sup> July

7:30	Breakfast
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### Scientific Session III:

#### Pharmacological strategies in inflammation and cancer

9:00	Carlo Patrono, Italy - Low-dose Aspirin, Cardiovascular Disease and Cancer: The Clinical Trial Evidence
9:30	Rahul Roychoudhuri, UK - Aspirin Enhances T cell Immunity to Cancer Metastasis
10:00	Angel Lanas, Spain - The Janus face of aspirin in the gastrointestinal tract. A clinical perspective
10:30	Angelo Sala, Italy - Aspirin and DHA in endothelial cell migration and angiogenesis
10:30	Coffee Break
11:00	Per-Johan Jakobsson, Sweden - Microsomal prostaglandin E synthase-1 as target for treating inflammation and cancer
11:30	Beatrix Suess, Germany - Regulation of miRNA processing by 5-lipoxygenase
12:00	Paolo Gresele, Italy - Platelets as a vehicle for the treatment of cancer
12:30	Lunch Break



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### Scientific Session IV:

#### Lipid mediators in disease development I

14:30	Nils Helge Schebb, Germany - Esterified oxylipins are bound in specific lipids
15:00	Antonio Sica, Italy - Immunometabolic dysregulation in cancer
15:30	Valerie O'Donnell, UK - The role of phospholipid oxidation in driving coagulation and thrombosis in cardiovascular disease and autoimmunity
16:00	Coffee Break

### Scientific Session V:

#### Lipid mediators in disease development II

16:30	Bernhard Brüne, Germany - ALOX15B in Macrophages: Biological Responses
17:00	Dieter Steinhilber, Germany - Noncanonical functions of 5-lipoxygenase in inflammation and cancer
17:30	Short Oral Presentations I
18:45	Poster Discussion
20:00	Gala-Dinner
22:00	Marsala wine and Sicilian pastries in San Rocco cellar

## Wednesday 30<sup>th</sup> July

7:30	Breakfast
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### Scientific Session VI:

#### Modulation of inflammation in cancer progression

9:00	Astrid S. Kahnt, Germany - The role of human 5-lipoxygenase in carcinogenesis - a question of canonical and non-canonical functions
9:30	Heiko Bruns, Germany - Immunomodulatory Roles of Tumor-Associated Macrophages in Lymphomas: Mechanisms and Therapeutic Targeting
10:00	Pietro Minuz, Italy - Thromboinflammation
10:30	Coffee Break
11:00	Short Oral Presentations II
12:15	<b>Closing Remarks and Course Conclusion</b> Course Directors: Vincenzo Bronte, Bernhard Brüne, Pietro Minuz, Paola Patrignani, Dieter Steinhilber
13:00	Lunch Break
14:00	Departures: airport connections

## SHORT TALKS - POSTER SESSIONS

**Tuesday 29<sup>th</sup> July**

### Scientific Session V — Short Oral Presentations I — 17:30-18:45

1	Francesca Boccato, Italy — COXTRANS: a novel class of dual drugs for the management of inflammation-related diseases and cancer metastasis
2	Debora Carpanese, Italy — Hyaluronan Drives Potent Immunity in Protein/Peptide-Based Cancer Vaccines Targeting HER2-expressing Breast Tumors
3	Elenia Fazioli, Italy — Delivery of siRNA from transfected platelets to different cancer cell lines



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4	Lisa Friedmann, Germany — Uncovering a novel enzyme: Who is responsible for 15(R)-HETE and 17(R)-HDHA formation in tumor cells and neutrophil granulocytes?
5	Michelle Haß, Germany — The role of IKK $\epsilon$ in immune response in melanoma
6	Arman Mandegar Khorasani, Italy — Bone marrow mesenchymal cell as sensor of early relapse in lung cancer
7	Alessandra Metelli, Italy — Generation of a Targeting Non-Blocking Tissue Factor Antibody for Safe and Efficacious Cancer Treatments
8	Alina Palcau, Italy — CircPVT1 weakens miR-33a-5p unleashing the c-MYC/GLS1 metabolic axis in breast cancer
9	Emilia Seta, Polonia — Towards Vascular Profiling of Anti-Cancer Drugs in Zebrafish Larvae; Focus on Tyrosine Kinase Inhibitor
10	Fabio Somma, Italy — Circulating innate lymphoid cells are dysregulated in patients with prostate cancer
11	Anja Wickert, Germany — Chronic hypoxia sensitizes acute myeloid leukemia cells towards ferroptosis
12	Anna Zaccaria, Italy — Deciphering the contradictory role of cystatin b in different breast cancer subtypes
13	Anna Zanichelli, Italy — Investigating the Role of ZEB1 in Inducing Immunosuppressive Neutrophils in Lung Cancer

## Scientific Session V — Poster Discussion — 18:45-19:20

1	Sabreen Alabbasi, Sweden — Janus kinase inhibitors enhance prostanoid biosynthesis in human whole blood in vitro: implications for cardiovascular side effects and prevention strategies
2	Sara Di Berardino, Italy — The role of mPGES-1 inhibitors and chemotherapeutic agents in 3D cultures of glioblastoma: development of a model to screen novel chemotherapeutic agents for treating glioblastoma
3	Michelle Haß, Germany — The role of IKK $\epsilon$ in immune response in melanoma
4	Ira Lamminger, Germany — Fatty acid provision upstream of cPLA2 $\alpha$ during the course of inflammation in leukocytes



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5	Marcel Müller, Germany — Oxylipin formation during efferocytosis of dying human neutrophils by macrophages
6	Julia Oberlis, Germany — Influence of 5-Lipoxygenase on gene expression in B-lymphocytes
7	Xin Wen, Germany — Establishing a model to study the impact of wall shear stress on the response of endothelial cells in culture

## Wednesday 30<sup>th</sup> July

### Scientific Session VI — Short Oral Presentations II — 11:00-12:15

1	Arianna Filippelli, Italy — Targeting the endothelium: novel therapeutic approaches using VEGF-mimetic peptides
2	Leon Gispert, Germany — Role of metabolic communication between endothelial cells and pericytes in the response to damage
3	Martina Gutturi, Italy — Impaired endothelial function and angiogenesis in Glanzmann Thrombasthenia
4	Fatima Hacer Kurtoglu Babayev, Germany — Endothelial cell-derived SMOC1 attenuates EndMT and limits cardiac remodelling after myocardial infarction
5	Niklas Ildefeld, Germany — Identification and Characterization of a Novel Liver Receptor Homologue-1 Modulator Scaffold
6	Stefan Jung, Germany — Biosynthesis of esterified oxidized fatty acids in leukocytes and their biological role
7	Parto Kharazizadeh, Italy — Impact of Diabetic Ketoacidosis at Type 1 Diabetes Onset on Long-Term Glycemic Control in Children and Adolescents
8	Marius Mathes, Germany — Vitamin D mediated transcriptional response in Monocytes: Impact of inhibitors
9	Francesca Tondi, Italy — Impaired endothelial function and angiogenesis in Hermansky-Pudlak syndrome (HPS) type 1





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10	Wenqing Xu, Germany — IL-38 Receptors in the Context of Inflammation
11	Xiaoshuang Yue, Germany — Role of TAM receptor in responding to proinflammatory forms of cell death