



5TH EUPLAN

INTERNATIONAL CONFERENCE

MILAN, ITALY
28-30 SEPTEMBER 2022



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Medicina di Laboratorio

LOCAL ORGANIZING COMMITTEE

Ilaria **Canobbio** (Italy) • Marco **Cattaneo** (Italy) • Gianmarco **Podda** (Italy) • Mauro **Torti** (Italy)

PROGRAMME

FACULTY

 **Ilaria Canobbio**

Università degli Studi di Pavia, Italy

 **Marco Cattaneo**

Fondazione Arianna Anticoagulazione, Italy

 **Maria Valeria Catani**

University of Rome Tor Vergata, Italy

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 **Rossella Marcucci**

Azienda Ospedaliero Universitaria Careggi; Università degli Studi di Firenze, Italy

 **Pietro Minuz**

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University of Bristol, UK

 **Fabio Maria Pulcinelli**

La Sapienza University of Rome, Italy

 **Isabella Russo**

University of Turin, Italy

 **Francesca Santilli**

University of Chieti, Italy

 **Anna Savoia**

Università degli Studi di Verona, Italy

 **Lucia Stefanini**

La Sapienza University of Rome, Italy

 **Mauro Torti**

Università degli Studi di Pavia, Italy

ORAL COMMUNICATION SPEAKERS

● **🇬🇧 Harriet Allan**

Queen Mary University of London, UK

● **🇬🇧 Paul Armstrong**

Queen Mary University of London, UK

● **🇫🇷 | | Timothée Jr Bigot**

Inserm 1263 Centre de recherche en CardioVasculaire et Nutrition, France

● **🇩🇪 Philipp Burkard**

University Hospital Würzburg, Germany

● **🇬🇧 Joanne Clark**

University of Birmingham, UK

● **🇳🇱 = Giorgia D'Italia**

Maastricht University, The Netherlands

● **🇧🇪 Caitlin Debaene**

Belgische Rode Kruis, Belgium

● **🇫🇷 | | Theo Ebermeyer**

Jean Monnet University, France

● **🇳🇱 = Delia Irene Fernández De La Fuente**

Maastricht University, The Netherlands

● **🇮🇹 | | Maurizio Frezza**

University of Chieti, Italy

● **🇫🇷 | | Cédric Garcia**

University Hospital of Toulouse, France

● **🇧🇪 Nicolas Jacques**

University of Liège, Belgium

● **🇫🇷 | | Axelle Kern**

University of Strasbourg, France

● **🇫🇷 | | Pierre Mangin**

University of Strasbourg, France

● **🇫🇷 | | Alexandra Mazharian**

University of Strasbourg, France

● **🇺🇸 Meghna Naik**

Thomas Jefferson University, US

● **🇦🇹 = Anita Pirabe**

Medical University of Vienna, Austria

● **🇮🇹 | | Mariangela Scavone**

Università degli Studi di Milano, Italy

● **🇳🇱 = Claudia Schönichen**

Maastricht University, The Netherlands

● **🇫🇷 | | Yotis Senis**

University of Strasbourg, France

● **🇮🇹 | | Paola Giustina Maria Simeone**

University of Chieti, Italy

● **🇬🇧 Alexandre Slater**

University of Birmingham, UK

● **🇮🇹 | | Silvia Maria Grazia Trivigno**

IUSS - School for Advanced Studies, Italy

● **🇪🇸 Sara Troitiño Cora**

Universidade de Santiago de Compostela, Spain

● **🇬🇧 Amanda Unsworth**

Manchester Metropolitan University, UK

● **🇧🇪 Fabienne Ver Donck**

KU Leuven, Belgium

● **🇮🇹 | | Mauro Vismara**

Università degli Studi di Pavia, Italy

● **🇩🇪 Yujing Zhang**

University Hospital Würzburg and Rudolf Virchow Center, Germany



It is our pleasure to welcome you at the

5TH EUPLAN INTERNATIONAL CONFERENCE

Originally planned for 2021, the meeting has been postponed due to the **Covid-19 pandemic** and has been organised in a safe location here at the University of Milan, making sure to host all the attendees in full compliance with the required safety and prevention measures.

As usual, the meeting is expected to **bring together** senior scientists and young fellows in an informal atmosphere. We will have various invited speakers providing state of the art lectures and a selection of oral presentations covering a broad range of topics in platelet and megakaryocyte biology, from basic science to recent advances in clinical studies.

We are excited to be finally able to discuss about platelet science in person, meet old friends and make new ones, establish new collaborations.

Ilaria Canobbio

Marco Cattaneo

Gianmarco Podda

Mauro Torti

28th September

16:00 - 16:30

Keynote lecture

Supported by an unrestricted grant of Sanofi

Chairs: Gianmarco Podda (Italy),
Ilaria Canobbio (Italy)

Pathophysiology of platelet adhesion and inhibition of platelet - von Willebrand factor interaction

Raimondo De Cristofaro (Italy)

16:45 - 17:00

Welcome

*Ilaria Canobbio (Italy),
Marco Cattaneo (Italy),
Gianmarco Podda (Italy),
Mauro Torti (Italy)*

INAUGURAL SESSION

Chairs: Marco Cattaneo (Italy),
Mauro Torti (Italy)

17:00 - 17:30

Platelets, thromboinflammation and COVID-19

Meinrad Gawaz (Germany)

17:30 - 18:00

Discussion

18:30

Welcome dinner at Cortile del Settecento

29th September

SESSION 1

Chairs: Benedetta Izzi (Spain),
Rossella Marcucci (Italy)

09:00 - 09:30

Keynote lecture

P2Y₁₂ antagonists monotherapy in patients with acute coronary syndrome?

Felice Gargano (Italy)

ORAL COMMUNICATIONS

09:30 - 09:45

Identification of novel inhibitors of the platelet collagen receptor GPVI by a phenotypic screening

Sara Troitiño Cora (Spain)

09:45 - 10:00

Structural studies of glycoprotein VI: from extracellular domains to full-length

Alexandre Slater (UK)

10:00 - 10:15

Ultra-high throughput screening identifies novel calcium-dependent antiplatelet drugs with discriminative mode of receptor-dependent action

Delia Irene Fernández De La Fuente (The Netherlands)

10:15 - 10:30

GPVI drives pulmonary inflammation by mediating local platelet-neutrophil complex formation and neutrophil activation in a murine model of acute respiratory distress syndrome

Philipp Burkard (Germany)

10:30 - 11:00

Coffee break

SESSION 2

Chairs: Alessandro Malara (Italy),
Raimondo De Cristofaro (Italy)

14:30 - 14:45

11:00 - 11:30

Keynote Lecture
Platelet generation from circulating megakaryocytes
Alastair Poole (UK)

ORAL COMMUNICATIONS

11:30 - 11:45

Light-induced ion influx triggers megakaryocyte polarization
Yujing Zhang (Germany)

11:45 - 12:00

Pharmacological inhibition of SHP2 inhibits megakaryopoiesis, thrombopoiesis and MPL signalling
Alexandra Mazharian (France)

12:00 - 12:15

PIM kinase: a novel regulator of megakaryocyte and platelet production and function
Amanda Unsworth (UK)

12:15 - 12:30

Reduced platelet glycoprotein Ib α shedding accelerates thrombopoiesis and COX-1 recovery: implications for aspirin dosing regimen
Paola Giustina Maria Simeone (Italy)

12:30 - 14:00

Poster Viewing Session / Lunch

SESSION 3

Chairs: Sarah Jones (UK),
Pasquale Pignatelli (Italy)

14:00 - 14:30

Keynote Lecture
Phosphoinositides in the regulation of platelet generation and function
Bernard Payrastre (France)

ORAL COMMUNICATIONS

The C-type lectin CD93 regulates platelet activation induced by PAR4 stimulation
Silvia Trivigno (Italy)

14:45 - 15:00

Conformational change in platelet α IIb β 3 induce PKC-dependent serine 284 phosphorylation of junctional adhesion molecule-A and Rap1 activation
Meghna Naik (US)

15:00 - 15:15

Haemorrhagic complications in cholera – a possible role of *Vibrio cholerae* outer membrane vesicles via impairment of platelet function
Anita Pirabe (Austria)

15:15 - 15:30

Ticagrelor prevents infective endocarditis by mitigating *Staphylococcus aureus* virulence
Nicolas Jacques (Belgium)

15:30 - 16:00

Coffee break

SESSION 4

Chairs: Fabio Pulcinelli (Italy),
Isabella Russo (Italy)

16:00 - 16:30

Keynote Lecture
Treatment of immune thrombocytopenia
Nichola Cooper (UK)

ORAL COMMUNICATIONS

16:30 - 16:45

Ultrastructural changes in platelets associated with viral xenophagy in severe COVID-19 patients
Cédric Garcia (France)

30th September

16:45 - 17:00

Single-cell RNA sequencing reveals aberrant megakaryocyte-erythroid progenitor and megakaryocyte populations in thrombocytopenic ETV6 variant carriers

Timothée Jr Bigot (France)

17:00 - 17:15

Integrin $\alpha 5\beta 1$ in haemostasis and arterial thrombosis in mice

Pierre Mangin (France)

17:15 - 17:30

Temporal labelling uncovers functional and molecular changes of platelets as they age in the circulation

Paul Armstrong (UK)

20:30

| *Conference dinner*

09:00 - 09:30

SESSION 5

Chairs: *Francesca Santilli (Italy), Valeria Catani (Italy)*

Keynote Lecture

Microfluidic devices to study platelet thrombus formation *in vitro*

Matthew Harper (UK)

ORAL COMMUNICATIONS

09:30 - 09:45

GPIb α shedding is restricted to the inner platelet membrane

Caitlin Debaene (Belgium)

09:45 - 10:00

SARS-CoV-2 infection is associated with activated but exhausted platelets

Mariangela Scavone (Italy)

10:00 - 10:15

TNF-alpha-induced endothelial dysregulation enhances platelet activation under shear and in stasis: a multi-omics approach

Claudia Schönichen (The Netherlands)

10:15 - 10:30

Platelet dysfunction in HFpEF patients: reduced platelet activation and thrombus formation under flow

Giorgia D'Italia (The Netherlands)

10:30 - 11:00

| *Coffee break*

SESSION 6

Chairs: *Pierre Fontana (Switzerland), Anna Savoia (Italy)*

11:00 - 11:30

Keynote Lecture

Platelet function defects studied with Next Generation Sequencing: present and future perspectives

Eva Leinoe (Denmark)

ORAL COMMUNICATIONS

11:30 - 11:45

Platelet RNA sequencing for SLFN14 K219N deficiency shows overexpression of ribosomal genes

Fabienne Ver Donck (Belgium)

11:45 - 12:00

Molecular insights into the cause and treatment of congenital thrombocytopenia in mice lacking the co-inhibitory receptor G6b-B

Yotis Senis (France)

12:00 - 12:15

How to assess the ability of plasma exchange to reduce on COVID-associated thrombo-inflammation with an in vitro platelet-endothelium co-culture model

Theo Ebermeyer (France)

12:15 - 12:30

Blood platelets at the crossroad between Alzheimer's disease and ageing-related frailty

Mauro Vismara (Italy)

12:30 - 14:00

| *Poster Viewing Session / Lunch*

SESSION 7

Chairs: *Lucia Stefanini (Italy),
Pietro Minuz (Italy)*

14:00 - 14:30

**Keynote Lecture
Platelets in atherosclerosis: from experimental models to clinical relevance**

Judith Cosemans (The Netherlands)

ORAL COMMUNICATIONS

14:30 - 14:45

Platelet-released mitochondria interact with neutrophils causing alterations in their phenotype

Harriet Allan (UK)

14:45 - 15:00

Carotid stent thrombosis in acute stroke with tandem lesions: focus on the mechanism and its prevention

Axelle Kern (France)

15:00 - 15:15

Kinetics of circulating extracellular vesicles after low-dose aspirin administration in patients at cardiovascular risk

Maurizio Frezza (Italy)

15:15 - 15:30

Divalent ligands activate C-type lectin-like receptor 2 in mice but not in human platelets

Joanne Clark (UK)

15:30

Closing remarks

*Ilaria Canobbio (Italy),
Marco Cattaneo (Italy),
Gianmarco Podda (Italy),
Mauro Torti (Italy)*

POSTER

The **Poster Viewing Sessions** will take place during lunch time in the dedicated Poster Area in front of the plenary hall.

PO-01 / ID 226

Impact of thrombocytopenia, temperature changes and acidic/alkaline conditions on haemostatic and immunomodulatory functions of platelets

Anna Schmuckenschlager (Austria)

PO-02 / ID 229

Observation of decreased platelet functional responses to conventional activation over six months period in patients after acute coronary syndrome on dual anti-platelet therapy

Aleksandra Filkova (Russia)

PO-03 / ID 230

Increased platelet distribution width is associated with mortality risk: prospective findings in an Italian adult general population

Benedetta Izzi (Spain)

PO-04 / ID 240

Ambiguous role of F11 receptor/junctional adhesion molecule-A in human blood platelet adhesion and thrombus formation

Tomasz Przygodzki (Poland)

PO-05 / ID 248

Apolipoprotein CIII impairs platelet function

Waltraud Schrottnmaier (Austria)

PO-06 / ID 249

Effect of NO-GC stimulators and activators on platelet biomechanics

Johanna Gabriela Rodriguez Cabezas (Germany)

PO-07 / ID 250

A multi-trait association analysis of platelet traits and brain disorders identifies novel susceptibility loci for major depression, Alzheimer's and Parkinson's disease

Alfonsina Tirozzi (Italy)

PO-08 / ID 256

PIKfyve-dependent phosphoinositide dynamics in megakaryocyte/platelet granule integrity and platelet functions

Sonia Severin (France)

PO-09 / ID 257

Clot structure changes and decreased procoagulant platelet development mediated by fibrin-GPVI interaction

Julia Sandrin Gauer (United Kingdom)

PO-10 / ID 259

Plasma exosomes reflect myocardial injury detected by cardiac magnetic resonance in STEMI patients

Marta Zarà (Italy)

PO-11 / ID 260

Characterising the native extracellular matrix in an endothelialised model of atherothrombosis

Amelia Drysdale (United Kingdom)

PO-12 / ID 266

Effects of inositol -1,3,4,5-tetrakisphosphate (IP4) on Rap1-GTP and Akt phosphorylation in permeabilised human platelets

Kalwant Authi (United Kingdom)

PO-13 / ID 268

Characterisation of platelet activation surface markers using spectral flow cytometry

Ami Vadgama (United Kingdom)

PO-14 / ID 270

The impact of platelet isolation protocol on the release of extracellular vesicles

Marta Zarà (Italy)

PO-15 / ID 271

Adenovirus-based and mRNA-based COVID-19 vaccines differentially modify the platelet-immune crosstalk and platelet count homeostasis in healthy subjects

Lucia Stefanini (Italy)

PO-16 / ID 272

Platelet lipidome fingerprint of obese patients: new assistance to characterize platelet dysfunction in obesity

Sara Troitiño Cora (Spain)

PO-17 / ID 274

Obese patients show enhanced ex vivo collagen-induced thrombus formation in flowing human blood

Sara Troitiño Cora (Spain)

PO-18 / ID 278

MicroRNA-223 is a regulator of platelet procoagulant activity

Julia Charlon (Switzerland)

PO-19 / ID 280

Development of a cell based in vitro model of ischaemic reperfusion injury, to identify small molecule multicellular drug targets for the prevention and treatment of ischaemic stroke

Xenia Sawkulycz (United Kingdom)

PO-20 / ID 281

Tetrameric nanobodies as novel ligands for GPVI and CLEC-2

Luis Arturo Moran Lara (United Kingdom)

PO-21 / ID 282

Small-molecule cyclophilin inhibitors as a potential therapeutic application to limit thrombosis

Jens Van Bael (Belgium)

PO-22 / ID 283

Eltrombopag iron-chelating effects on thrombopoiesis

Alessandro Malara (Italy)

PO-23 / ID 284

Inter-individual variation in platelet aggregation and secretion responses in healthy volunteer donors

Ebtihal Alfatani (Ireland)

PO-24 / ID 285

Proteomics-based comprehensive in silico model of human platelet signalling for the personalized studies of hemostasis disorders

Alexey Martyanov (Russia)

PO-25 / ID 287

Characterisation of platelet-leukocyte interactions in COVID-19 patients

Lucia Stefanini (Italy)

PO-26 / ID 289

Exploring the cardiovascular risk in people living with HIV by determining the platelet and endothelial effects of integrase inhibitors used in current anti-retroviral therapies

Renos Keniyopoulos (United Kingdom)

PO-27 / ID 293

Detection of platelet-activating antibodies associated with vaccine induced thrombotic thrombocytopenia by flow cytometry: an Italian experience

Silvia Sorrentino (Italy)

PO-28 / ID 294

Rivaroxaban attenuates second wave of platelet aggregation by inhibition of platelet-derived factor Xa

Tomas Lindahl (Sweden)

PO-29 / ID 296

Circulating miRNAs release predicts suboptimal response to aspirin in patients at high cardiovascular risk with and without type 2 diabetes mellitus

Rossella Liani (Italy)

PO-30 / ID 299

Apolipoprotein A1 becomes tyrosine phosphorylated during platelet activation by *Staphylococcus aureus* alpha-toxin

Christine Föhrkolb (Germany)

Scan here for the full Abstract Book of the
5th EUPLAN Conference



Also available at www.euplan2022.org/abstract

INFORMATION

CONFERENCE VENUE

**Università degli Studi di Milano
La Statale**

Via Festa del Perdono, n. 7
Plenary hall: Aula Magna

MedTech Europe Code of Ethical Business Practice:

COMPLIANT

Reference number: **EMT29506**

ON-SITE SECRETARIAT IS OPEN AT:

WEDNESDAY 28 Sept.

15:00-19:00

THURSDAY 29 Sept.

08:00-18:00

FRIDAY 30 Sept.

08:30-16:00

For urgent matters,
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INFORMATION

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