

Organized by:



Advanced course in Platelet Research

Murcia (Spain)

27-28 September, 2024

Sercotel Amistad Hotel



PROGRAM

Friday, September 27th, 2024

08:00 **Registration Open**

08:45-8:55 **Welcome**

Pilar Llamas

Hospital Universitario Fundación
Jiménez Díaz, Madrid (Spain)

José Rivera

Centro Regional de Hemodonación,
Universidad de Murcia, IMIB-Pascual
Parrilla, CIBERER, Murcia (Spain)

SESSION 1

09:00-10:20 **NEW CONCEPTS IN MEGAKARYOPOIESIS AND THROMBOPOIESIS**

Moderator: **María Luisa Lozano**

Centro Regional de Hemodonación,
Universidad de Murcia, IMIB-Pascual
Parrilla, CIBERER, Murcia (Spain)

09:00-09:20 **How should we study
megakaryopoiesis nowadays?**
Alessandra Balduini

University of Pavia (Italy)

09:20-09:40 **Single cell methods to
study megakaryocyte
heterogeneity and regulatory
controls of endomitosis**
Antonio Rodríguez Romera

University of Oxford (United Kingdom)

09:40-10:00 **Can we really produce platelets
in vitro for clinical use?**

Cedric Ghevaert

University of Cambridge
(United Kingdom)

10:00-10:20 **Open discussion**

10:20-10:55 Coffee break & Posters

SESSION 2

11:00-12:20 **EMERGING TECHNOLOGIES FOR UNDERSTANDING PLATELET FUNCTION (I)**

Moderator: **Wolfgang Bergmeier**

University of North Carolina
at Chapel Hill, CA (USA)

11:00-11:20 **How should we use
mathematical modelling
and new research tools to
advance our knowledge of
platelet biology?**

Steve P. Watson

University of Birmingham
(United Kingdom)

11:20-11:40 **New approaches and new
reagents to study platelet
function (update in PROTAC
technology, nanobodies, etc.)**
Ingeborg Hers

University of Bristol (United Kingdom)

11:40-12:00 **High throughput
multi-parameter platelet
function analysis for donor
or patient phenotyping
and stratification**
Jon Gibbins

University of Reading
(United Kingdom)

12:00-12:20 **Open discussion**

12:20-12:25 Break

SESSION 3

12:30-13:30 **ADVANCES IN FLOW CYTOMETRY AND MICROSCOPY**

Moderator: **Alessandra Balduini**

University of Pavia (Italy)

12:30-12:50 **Moving forward on flow
cytometric analysis of
platelets and other blood
cells**

Alberto Orfao

Universidad de Salamanca (Spain)

12:50-13:10 **How should we use advanced
microscopy to improve our
understanding of platelet
function?**

Natalie Poulter

University of Birmingham
(United Kingdom)

13:10-13:30 **Open discussion**

13:30-13:45 Official Opening

13:45-15:20 Enjoy lunch & friendly
conversation & posters

PROGRAM

Friday, September 27th, 2024

SESSION 4

15:30-16:50 THE CRITICAL ROLE OF METABOLISM IN PLATELET BIOLOGY

Moderator: Constantino Martínez

Centro Regional de Hemodonación,
IMIB-Pascual Parrilla, Murcia (Spain)

15:30-15:50 Advanced analysis of platelet metabolism and mitochondrial function

Sonia del Águila

Centro Regional de Hemodonación,
IMIB-Pascual Parrilla, UCAM, Murcia
(Spain)

15:50-16:10 How is NO metabolism regulating platelet function?

Paolo Gresele

University of Perugia (Italy)

16:10-16:30 Platelet heterogeneity in health and disease

Paul C. Armstrong

Queen Mary University of London
Centre for Immunobiology, Blizard
Institute (United Kingdom)

16:30-16:50 Open discussion

16:50-16:55 Break

SESSION 5

17:00-18:20 EMERGING TECHNOLOGIES FOR UNDERSTANDING PLATELET FUNCTION (II)

Moderator: Steve P. Watson

University of Birmingham
(United Kingdom)

17:00-17:20 What is MK and platelet RNA biology telling us?

Matthew T. Rondina

University of Utah Health, Utah (USA)

17:20-17:40 What is the future of proteomics in platelet research?

Ángel García-Alonso

CIMUS, Universidad de Santiago
de Compostela (Spain)

17:40-18:00 Bone marrow organoids in the study of megakaryocytopoiesis and myelofibrosis

Abs Khan

University of Oxford
(United Kingdom)

18:00-18:20 Open discussion

18:20-18:30 Break

SESSION 6

18:30-19:50 INHERITED PLATELET DISORDERS. EDUCATIONAL APPROACH OF DIAGNOSIS AND MANAGEMENT

Moderator: Kathleen Freson

University of KU Leuven (Belgium)

18:30-18:50 How will you approach diagnosis and clinical management of IPD

José María Bastida

Complejo Asistencial Universitario
de Salamanca-IBSAL,
Universidad de Salamanca (Spain)

18:50-19:10 The Iberian contribution to the knowledge of IPD

Ana Marín

Centro Regional de Hemodonación,
Universidad de Murcia, IMIB-Pascual
Parrilla, CIBERER, Murcia (Spain)

19:10-19:30 Gene therapy in severe IPD: Dream or reality?

Raúl Torres

CIEMAT, Madrid (Spain)

19:30-19:50 Open discussion

19:50-21:30 Free walk discovering Murcia

21:30

Enjoy dinner with friends
in Murcia (Hispano restaurant,
walking distance)

PROGRAM

Saturday, September 28th, 2024

SESSION 7

09:00-10:20 **ADVANCED EXPLORATION OF GENOME VARIATION IN PLATELETS, BLEEDING AND THROMBOTIC DISORDERS**

Moderator: **José Rivera**

Centro Regional de Hemodonación, Universidad de Murcia, IMIB-Pascual Parrilla, CIBERER, Murcia (Spain)

09:00-09:20 **Why is the genetic basis of many platelet disorders still unknown?**

Neil Morgan

University of Birmingham (United Kingdom)

09:20-09:40 **How is novel long sequencing technologies increasing our knowledge of bleeding and thrombotic disorders**

Belén de la Morena

Centro Regional de Hemodonación, Universidad de Murcia, IMIB-Pascual Parrilla, CIBERER, Murcia (Spain)

09:40-10:00 **New concepts in genetic diversity of inherited platelet disorders**

Kathleen Freson

University of KU Leuven (Belgium)

10:00-10:20 **Open discussion**

10:20-10:55 Coffee break & Posters

SESSION 8

11:00-12:20 **PLATELETS BEYOND HEMOSTASIS**

Moderator: **Jon Gibbins**

University of Reading (United Kingdom)

11:00-11:20 **How do platelet contribute to venous thrombosis**

Wolfgang Bergmeier

University of North Carolina at Chapel Hill, CA (USA)

11:20-11:40 **Platelet antibody driven thromboinflammation and potential treatments**

Andreas Greinacher

University of Greifswald (Germany)

11:40-12:00 **Platelet alterations in myeloproliferative neoplasms**

Jorge Di Paola

Washington University in St. Louis, MO (USA)

12:00-12:20 **Open discussion**

12:20-12:25 Break

SESSION 9

12:30-13:30 **IMMUNE THROMBOCYTOPENIA (ITP)- DIAGNOSIS AND TREATMENT**

Moderator: **Chris Ward**

University of Sydney (Australia)

12:30-12:50 **New concepts in the mechanisms of ITP**

John Semple

Lund University (Sweden)

12:50-13:10 **How should we treat ITP in 2024?**

María Luisa Lozano

Centro Regional de Hemodonación, Universidad de Murcia, IMIB-Pascual Parrilla, CIBERER, Murcia (Spain)

13:10-13:30 **Open discussion**

13:30-15:20 Enjoy lunch & friendly conversation & posters

SESSION 10

15:30-16:25 **EARLY CAREERS RESEARCH ON THE PLATELET FIELD & RESEARCH CULTURE IN 2024**

Moderator: **Jorge Di Paola**

Washington University in St. Louis,
MO (USA)

15:30-15:45 **EARLY CAREER 1**

Abstract to be selected by the SAB, among the abstract submitted

Discussion

15:45-16:00 **EARLY CAREER 2**

Abstract to be selected by the SAB, among the abstract submitted

Discussion

16:00-16:15 **EARLY CAREER 3**

Abstract to be selected by the SAB, among the abstract submitted

Discussion

16:15-16:25 **RESEARCH CULTURE IN 2024**

Steve P. Watson

University of Birmingham
(United Kingdom)

16:25-16:35 Break

16:35-16:45 **CONCLUDING REMARKS**

SAB & ISTH: **Alessandra Balduini**

University of Pavia (Italy)

Jorge Di Paola

Washington University in St. Louis,
MO (USA)

Kathleen Freson

University of KU Leuven (Belgium)

Chris Ward

University of Sydney (Australia)

Steve P. Watson

University of Birmingham
(United Kingdom)

16:45-17:00 **ACKNOWLEDGMENTS AND CLOSING**

Pilar Llamas

Hospital Universitario Fundación
Jiménez Díaz, Madrid (Spain)

José Rivera

Centro Regional de Hemodonación,
Universidad de Murcia, IMIB-Pascual
Parrilla, CIBERER, Murcia (Spain)

General information

SUBMISSION OF ABSTRACTS

Deadline: 20 July 2024

E-mail: st_platelet2024@seth.es

Abstracts will not be accepted by other means.

Guidelines for the preparation of abstracts:

- ▶ Abstracts should be submitted in Word or similar format, with a limit of 500 words.
 - ▶ The text of the papers must be presented in English.
 - **Authors:** all authors of the communication must be included (surname, first initial). Example: García Pérez, A (surname, first initial). The maximum number of authors for each paper is 20.
 - **Place of work:** this information is compulsory for all authors.
 - **Title:** it must be in capital letters and it is recommended not to exceed 25 words.
- ▶ Structure: introduction, methods, results and conclusions.
 - ▶ The selected abstracts (up to 25) will be printed in poster format for their exhibition on the days of the meeting. Specific instructions will be given to the presenting authors.
 - ▶ The Scientific Committee will select the 3 best abstracts for their presentation as oral communication.
 - ▶ It is not necessary to be registered to submit an abstracts. It will be mandatory for the presenting authors to register for the course. If no author is registered before 1st September, the abstract will be considered withdrawn.

General information

COURSE DETAILS

- **Chairs:**
José Rivera (Murcia, Spain) and Pilar Llamas (Madrid, Spain)
- **Science Advisory Board (SAB):**
Alessandra Balduini (Pavia, Italy)
Kathleen Freson (Leuven, Belgium)
Jorge Di Paola (St. Louis, USA)
Steve P. Watson (Birmingham, United Kingdom)
- **Date:** 27-28 September 2024
- **Venue:** Sercotel Amistad Murcia, Spain
- **Format:** on site

COURSE OBJECTIVES

- ▶ The advanced workshop will bring together 60-80 early career and established researchers to discuss the latest advances in the platelet field and the underpinning technology.
- ▶ This includes the increasing recognition of the role of platelets in inflammation and in thromboinflammatory disease, as exemplified by the Covid-19 pandemic, and their role in venous thrombosis, and the emergence of GPVI as a target in ischaemic stroke with minimal effect on bleeding.
- ▶ The technologies include the advances in generating platelets from iPSCs and the use of advanced microscopy to be able to visualize the organization of proteins on the platelet surface.
- ▶ The goal is to discuss these advances and how they can be applied to the development of new ways to prevent thrombotic disease, including personalized medicine.

REGISTRATION

- **Registration fee:** 675 €.
- **Registration deadline:** 26 August 2024 [\[click here\]](#)

• Registration includes

- Course documentation
- Access to lectures
- Up to 3 nights accommodation
- Coffee breaks
- Lunches
- Certificate of attendance

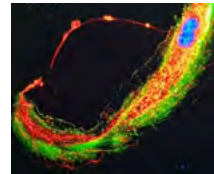
- **Limited places:** 150 registrants.

The technical secretariat will personally communicate acceptance to the course by e-mail as soon as the payment of the registration fee will be received.

• Cancellations

Cancellations received after September 2nd, 2024 will not be reimbursed.

Scientific and financial support



Grupo Español de Alteraciones
Plaquetarias Congénitas (GEAPC)



Organized by:



SETH 50 AÑOS
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SOCIEDAD ESPAÑOLA DE
TROMBOSIS Y HEMOSTASIA

Isth

International Society on
Thrombosis and Haemostasis

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