

Cell Biology of Megakaryocytes & Platelets

Gordon Research Conference

Fundamental Biology and Disorders of the Megakaryocyte Lineage: From Hematopoietic Stem Cell to Hemostasis

Dates

February 26 - March 3, 2017

Location

Renaissance Tuscany Il Ciocco
Lucca (Barga), Italy

Organizers

Chair:

Benjamin T. Kile

Vice Chair:

Wolfgang Bergmeier

Application Deadline

Applications for this meeting must be submitted by **January 29, 2017**. Please apply early, as some meetings become oversubscribed (full) before this deadline. If the meeting is oversubscribed, it will be stated here. *Note:* Applications for oversubscribed meetings will only be considered by the Conference Chair if more seats become available due to cancellations.

Meeting Description

The Gordon Research Conference (GRC) on the Cell Biology of Megakaryocytes and Platelets is the premier international scientific meeting focused on the biology of the megakaryocyte lineage, from HSCs through to platelets. Fusing the latest developments in fundamental science with high-impact translational research, this, the 7th biennial meeting, will provide a stimulating program featuring an international mix of established and up-and-coming researchers.

Sessions will cover a diverse range of topics, including megakaryocyte lineage development, progress in identifying the causes of congenital disorders of platelet number and function, myeloproliferative disease and acute megakaryoblastic leukemia, platelet signalling, the role of platelets in settings such as cancer and immunity, and new therapeutic approaches to diseases both of, and involving, the megakaryocyte lineage.

Known for its collegial and inclusive atmosphere, the meeting draws a mixture of scientists, clinicians and industry representatives. It provides the ideal setting for cross-fertilization of ideas, conceptual advances, and the promotion of collaborations.

This GRC is tied in with a two-day Gordon Research Seminar (GRS) for trainees interested in the field, giving them the opportunity to present their research, and gain insights from senior academic and industry investigators in this area. This will be enhanced by a panel discussion on developing a research career in academia and industry. Furthermore, abstracts submitted to the GRS by trainees will be scored by a panel, and the highest rated will be selected for oral presentation during the GRC.

Related Meeting

This GRC will be held in conjunction with the "**Cell Biology of Megakaryocytes & Platelets**" Gordon Research



Seminar (GRS). Those interested in attending both meetings must submit an application for the GRS in addition to an application for the GRC. Refer to the [associated GRS program page](#) for more information.

Contributors



Meeting Program

Sunday

4:00 pm - 8:00 pm Arrival and Check-in

6:00 pm Dinner

7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff

7:40 pm - 9:30 pm **Keynote Session: From Fundamental Biology to Novel Therapies**

Discussion Leader: **Jack Levin** (University of California, San Francisco, USA)

7:40 pm - 8:20 pm **Andrew Weyrich** (University of Utah School of Medicine, USA)
"The Evolving Roles of Platelets in Health and Disease"

8:20 pm - 8:35 pm Discussion

8:35 pm - 9:15 pm **Martine Jandrot-Perrus** (Laboratory for Vascular Translational Science (LVTS), Paris Diderot University, France)
"GPVI: From Accessory Physiological Role to Major Therapeutic Asset"

9:15 pm - 9:30 pm Discussion

Monday

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Platelet Signaling: Lipids, Granules and Membranes**

Discussion Leader: **Elizabeth Gardiner** (John Curtin School of Medical Research, Australian National University, Australia)

9:00 am - 9:25 am **Junling Liu** (Shanghai Jiao Tong University School of Medicine, China)
"Activation of Platelet Function Through Adhesion G Protein-Coupled Receptors"

9:25 am - 9:40 am Discussion

9:40 am - 10:05 am **Lawrence Brass** (University of Pennsylvania, USA)
"Putting It All Together: Integrating the Platelet Signaling Network and the Hemostatic Response to Injury"

10:05 am - 10:20 am Discussion

10:20 am - 10:30 am Short Talk Selected from Poster Abstracts

10:30 am - 10:35 am Discussion

10:35 am - 10:55 am Coffee Break

10:55 am - 11:20 am **Alastair Poole** (University of Bristol, United Kingdom)
"Platelet Ballooning: Transforming Cell Shape for Procoagulant Activity"

11:20 am - 11:35 am Discussion

11:35 am - 12:00 pm **Justin Hamilton** (Monash University, Australia)
"Class II PI3Ks in Platelet Membrane Structure and Function"

12:00 pm - 12:15 pm Discussion

12:15 pm - 12:25 pm Short Talk Selected from Poster Abstracts

12:25 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:30 pm Free Time

3:00 pm - 4:00 pm Power Hour

The GRC Power Hour is an optional informal gathering open to all meeting participants. It is designed to help address the challenges women face in science and support the professional growth of women in our communities by providing an open forum for discussion and mentoring.

Organizers: **Elizabeth Gardiner** (John Curtin School of Medical Research, Australian National University, Australia) and **Kellie Machlus** (Harvard Medical School, USA)

4:30 pm - 6:00 pm Poster Session

6:00 pm - 8:00 pm **Embryonic and Ontological Development of Megakaryocytes and Platelets**

Discussion Leader: **James Palis** (University of Rochester, USA)

6:00 pm - 6:25 pm **Samir Taoudi** (The Walter and Eliza Hall Institute of Medical Research, Australia)
"Exploring the Mechanism of Platelet Formation During Prenatal Life"

6:25 pm - 6:35 pm Discussion

6:35 pm - 7:00 pm **Martha Sola-Visner** (Boston Children's Hospital, USA)
"Insights into the Transition from Neonatal to Adult Megakaryopoiesis"

7:00 pm - 7:10 pm Discussion

7:10 pm - 7:35 pm **Ana Cvejic** (University of Cambridge, United Kingdom)
"Single Cell RNA-Sequencing Reveals a Continuous Spectrum of Differentiation in Haematopoietic Cells"

7:35 pm - 7:45 pm Discussion

7:45 pm - 7:55 pm Short Talk Selected from Poster Abstracts

7:55 pm - 8:00 pm Discussion

8:00 pm Dinner

Tuesday

7:30 am - 8:30 am Breakfast

8:30 am Group Photo

9:00 am - 12:30 pm **Achilles' Heels: Identifying the Causes of Congenital Platelet Disorders**

Discussion Leader: **Kathleen Freson** (Katholieke Universiteit Leuven, Belgium)

9:00 am - 9:25 am **Hana Raslova** (Institut Gustave Roussy, France)
"Role of FLNA and DIAPH1 in Macrothrombocytopenia: From Functional Studies to Diagnosis or Vice-Versa?"

- 9:25 am - 9:40 am Discussion
- 9:40 am - 10:05 am **Jorge Di Paola** (University of Colorado, USA)
"ETV6-Related Thrombocytopenia: Lessons from Humans and Animal Models"
- 10:05 am - 10:20 am Discussion
- 10:20 am - 10:30 am Short Talk Selected from Poster Abstracts
- 10:30 am - 10:35 am Discussion
- 10:35 am - 10:55 am Coffee Break
- 10:55 am - 11:20 am **Patrizia Noris** (University of Pavia, Italy)
"Inherited Thrombocytopenias: Bleeding and Much More"
- 11:20 am - 11:35 am Discussion
- 11:35 am - 12:00 pm **Neil Morgan** (University of Birmingham, United Kingdom)
"Finding Novel Genes for Inherited Bleeding Disorders with Platelet Dysfunction"
- 12:00 pm - 12:15 pm Discussion
- 12:15 pm - 12:25 pm Short Talk Selected from Poster Abstracts
- 12:25 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:30 pm Free Time
- 4:30 pm - 6:00 pm Poster Session
- 6:00 pm - 8:00 pm **Backbone of the Lineage: TPO and c-Mpl Signalling in Health and Disease**
- Discussion Leader: **Nichola Cooper** (Imperial College Healthcare, United Kingdom)
- 6:00 pm - 6:25 pm **Warren Alexander** (Walter and Eliza Hall Institute of Medical Research, Australia)
"Expression and Roles of the Mpl Receptor in Health and Disease"
- 6:25 pm - 6:35 pm Discussion
- 6:35 pm - 7:00 pm **Ian Hitchcock** (University of York, United Kingdom)
"New Insights into Thrombopoietin Receptor Activation"
- 7:00 pm - 7:10 pm Discussion
- 7:10 pm - 7:35 pm **James Bussel** (Weill Cornell Medicine, USA)
"Clinical Effects of TPO Agents Inform Disease Biology"
- 7:35 pm - 7:45 pm Discussion
- 7:45 pm - 7:55 pm Short Talk Selected from Poster Abstracts
- 7:55 pm - 8:00 pm Discussion
- 8:00 pm Dinner

Wednesday

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Myeloproliferative Neoplasms and Acute Megakaryoblastic Leukemia**
- Discussion Leader: **Thomas Mercher** (Institut Gustave Roussy, France)
- 9:00 am - 9:25 am **Tanja Gruber** (St. Jude Children's Research Hospital, USA)
"Mechanisms of Acute Megakaryoblastic Leukemia in Non-Down Syndrome Patients"
- 9:25 am - 9:40 am Discussion
- 9:40 am - 10:05 am **Stefan Constantinescu** (Ludwig Institute for Cancer Research, Belgium)
"Blood Formation and the Molecular Bases of Chronic Myeloid Cancers"

- 10:05 am - 10:20 am Discussion
- 10:20 am - 10:30 am Short Talk Selected from Poster Abstracts
- 10:30 am - 10:35 am Discussion
- 10:35 am - 10:55 am Coffee Break
- 10:55 am - 11:20 am **Norio Komatsu** (Juntendo University, Japan)
"Activation of the Thrombopoietin Receptor by Mutant Calreticulin in CALR-Mutant Myeloproliferative Neoplasms"
- 11:20 am - 11:35 am Discussion
- 11:35 am - 12:00 pm **John Crispino** (Northwestern University, USA)
"Aberrant Megakaryopoiesis in the Myeloproliferative Neoplasms"
- 12:00 pm - 12:15 pm Discussion
- 12:15 pm - 12:25 pm Short Talk Selected from Poster Abstracts
- 12:25 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:30 pm Free Time
- 4:30 pm - 6:00 pm Poster Session
- 6:00 pm - 8:00 pm **Form and Function: Cytoskeletal Regulation in Megakaryocytes and Platelets**
- Discussion Leader: **Antonija Begonja** (University of Rijeka, Croatia)
- 6:00 pm - 6:25 pm **Markus Bender** (University Hospital Würzburg, Germany)
"Role of Cytoskeleton-Regulatory Proteins in Platelet Production and Function"
- 6:25 pm - 6:35 pm Discussion
- 6:35 pm - 7:00 pm **Catherine Leon** (INSERM U949, EFS-Alsace, Université de Strasbourg, France)
"Actomyosin, Key Player at Multiple Steps in Platelet Biogenesis"
- 7:00 pm - 7:10 pm Discussion
- 7:10 pm - 7:35 pm **Steve Thomas** (University of Birmingham, United Kingdom)
"Platelet Actin Organisation – Peeking Beyond the Diffraction Limit"
- 7:35 pm - 7:45 pm Discussion
- 7:45 pm - 7:55 pm Short Talk Selected from Poster Abstracts
- 7:55 pm - 8:00 pm Discussion
- 8:00 pm Dinner

Thursday

- 7:30 am - 8:30 am Breakfast
- 8:30 am - 9:00 am Business Meeting
- Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair*
- 9:00 am - 12:30 pm **Platelets, Inflammation and Innate Immunity**
- Discussion Leader: **Craig Jenne** (University of Calgary, Canada)
- 9:00 am - 9:25 am **Jane Freedman** (University of Massachusetts Medical School, USA)
"Platelets and Innate Immunity: From Mechanism to Populations"

9:25 am - 9:40 am	Discussion
9:40 am - 10:05 am	Eric Boilard (CHU de Quebec, Universite Laval, Canada) "Platelets and Platelet-Derived Microparticles in Antibody-Mediated Inflammatory Responses"
10:05 am - 10:20 am	Discussion
10:20 am - 10:30 am	Short Talk Selected from Poster Abstracts
10:30 am - 10:35 am	Discussion
10:35 am - 10:55 am	Coffee Break
10:55 am - 11:20 am	Marieke Essers (Heidelberg Institute for Stem Cell Technology and Experimental Medicine, Germany) "Inflammation-Induced Emergency Hematopoiesis"
11:20 am - 11:35 am	Discussion
11:35 am - 12:00 pm	Adam Cunningham (University of Birmingham, United Kingdom) "The Balance Between Inflammation and Thrombosis During Gram-Negative Infection"
12:00 pm - 12:15 pm	Discussion
12:15 pm - 12:25 pm	Short Talk Selected from Poster Abstracts
12:25 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm - 8:00 pm	Tumour Cells and Platelets: Une Affaire Compliquée
	Discussion Leader: Emma Josefsson (The Walter and Eliza Hall Institute of Medical Research, Australia)
6:00 pm - 6:25 pm	Myriam Labelle (St. Jude Children's Research Hospital, USA) "Signaling Roles of Platelets During Metastatic Seeding"
6:25 pm - 6:35 pm	Discussion
6:35 pm - 7:00 pm	Anil Sood (University of Texas MD Anderson Cancer Center, USA) "Emerging Role of Platelets in Adaptive Changes to Anti-Angiogenesis Therapy"
7:00 pm - 7:10 pm	Discussion
7:10 pm - 7:35 pm	Elisabeth Battinelli (Brigham and Women's Hospital / Harvard Medical School, USA) "Platelets and Tumor Cells: Breaking the Cycle"
7:35 pm - 7:45 pm	Discussion
7:45 pm - 7:55 pm	Short Talk Selected from Poster Abstracts
7:55 pm - 8:00 pm	Discussion
8:00 pm	Dinner
Friday	
7:30 am - 8:30 am	Breakfast
9:00 am	Departure

Funding for this conference was made possible (in part) by 1R13HL135868-01 from the National Institutes of Health. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade

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