

# PLATELETS 2008 INTERNATIONAL SYMPOSIUM WOODS HOLE, MASSACHUSETTS, OCTOBER 15 - 18, 2008

## Wednesday, OCTOBER 15

- 4:45 pm - 5:00 pm **Welcome: Alan Michelson, Co-Chair, Platelets 2008 (Worcester, USA)**
- 5:00 pm – 6:30 pm **SESSION I: BIRTH AND DEATH OF PLATELETS**  
**Moderators: John Hartwig (Boston, USA), Ben Kile (Melbourne, Australia)**  
Building Platelets  
**John Hartwig (Boston, USA)**  
Yin and Yang in Megakaryopoiesis: New Insights into the Yang  
**Morty Poncz (Philadelphia, USA)**  
The Molecular Control of Platelet Life Span  
**Benjamin Kile (Melbourne, Australia)**  
**Abstract:** Two Distinct Pathways Regulate the Procoagulant Function of Platelets  
**Simone Schoenwaelder (Melbourne, Australia)**
- 6:30 pm – 8:00 pm **Welcome Dinner**
- 8:00 pm Welcome and Introduction to Barry Coller  
**David Varon, Co-Chair, Platelets 2008 (Jerusalem, Israel)**
- 8:05 pm – 9:00 pm **Keynote Address**  
The Golden Age of Platelet Research  
**Barry Coller (New York, USA)**

## Thursday, OCTOBER 16

- 7:30 am – 8:30 am **Breakfast**
- 8:30 am – 10:00 am **SESSION II: PLATELET ACTIVATION**  
**Moderators: Shaun Jackson (Melbourne, Australia), Peter Newman (Milwaukee, USA)**  
Identification of A New Shear-Dependent Platelet Aggregation Mechanism  
**Shaun Jackson (Melbourne, Australia)**  
Molecular Mechanisms of Platelet Activation and Adhesion  
**Peter Newman (Milwaukee, USA)**  
Role of ADAMTS-18 in Oxidative Platelet Fragmentation and Platelet Thrombus Regulation  
**Simon Karpatkin (New York, USA)**  
**Abstract:** Oxidative Stress Induces Platelet Receptor Shedding: A Potential Thrombosis-Limiting Mechanism  
**Alexander Brill (Boston, USA)**
- 10:00 am – 10:30 am **Coffee Break**
- 10:30 am – 12:00 pm **SESSION III: PLATELET SIGNALING**  
**Moderators: Steve Watson (Birmingham, UK), Skip Brass (Philadelphia, USA)**  
Platelet Integrins Signal Their Relevance to Vascular Biology and Oncology  
**Sandy Shattil (La Jolla, USA)**  
Investigation of Novel Platelet Surface Receptors and Signaling Proteins  
**Steve Watson (Birmingham, United Kingdom)**

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Achieving the Optimal Hemostatic Response by Regulating Platelet Activation

**Skip Brass (Philadelphia, USA)**

**Abstract:** The Notch Signaling Pathway in Human Megakaryocytes and Platelets

**Noemi Michetti (Salt Lake City, USA)**

12:00 pm – 1:00 pm

**Lunch**

1:00 pm – 3:00 pm

**Free Time**

3:00 pm – 4:30 pm

## **SESSION IV: PLATELET MICROPARTICLES**

**Moderators: David Varon (Jerusalem, Israel), Yasuo Ikeda (Tokyo, Japan)**

Membrane Elasticity and Cytoskeletal Structure Determine Platelet Tether and Microparticle Formation Under Shear Stress

**Armin Reininger (Munich, Germany)**

The Role of Platelet Microparticles in Angiogenesis and Tumor Invasion

**David Varon (Jerusalem, Israel)**

Nanobioparticles as Platelet Substitutes

**Yasuo Ikeda (Tokyo, Japan)**

**Abstract:** Platelets and Megakaryocytes Contain NF- $\kappa$ B Family Members and NF- $\kappa$ B Inhibitors Interfere With Platelet Function

**Sherry Spinelli (Rochester, USA)**

4:30 pm – 5:00 pm

**Coffee Break**

5:00 pm – 6:30 pm

## **SESSION V: PLATELET FUNCTION TESTING**

**Moderators: Alan Michelson (Worcester, USA), Paul Harrison (Oxford, UK)**

The History of Platelet Aggregometry

**Gustav Born (London, United Kingdom)**

Platelet Function Testing in Patients with Bleeding Disorders

**Paul Harrison (Oxford, United Kingdom)**

Platelet Function Testing in Patients with Thrombosis

**Alan Michelson (Worcester, USA)**

**Abstract:** Fibrinogen Plays an Important Role in Preservation of Intracellular and Cell Surface P-Selectin Expression

**Heyu Ni (Toronto, Canada)**

6:30 pm – 7:30 pm

**Dinner**

7:30 pm – 9:00 pm

**Posters and Pretzels**

## **Friday, OCTOBER 17**

7:30 am – 8:30 am

**Breakfast**

8:30 am – 10:00 am

## **SESSION VI: PHARMACOLOGY 1**

**Moderators: Carlo Patrono (Rome, Italy), Rob Storey (Sheffield, UK)**

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Current Issues with Aspirin and Clopidogrel

**Carlo Patrono (Rome, Italy)**

Prasugrel

**Joe Jakubowski (Indianapolis, USA)**

AZD6140 and Cangrelor

**Rob Storey (Sheffield, United Kingdom)**

**Abstract:** The ATP-gated P2X1 Receptor Plays a Pivotal Role in Activation of Aspirin-Treated Platelets by Thrombin and Epinephrine

**Tomas Lindahl (Uppsala, Sweden)**

10:00 am – 10:30 am **Coffee Break**

10:30 am – 12:00 pm **SESSION VII: GENETIC DISORDERS**

**Moderators: Marco Cattaneo (Milan, Italy), Uri Seligsohn (Tel Hashomer, Israel)**

Lessons from the Middle Eastern Cradle of Glanzmann Thrombasthenia

**Uri Seligsohn (Tel Hashomer, Israel)**

ADP Receptor Disorders

**Marco Cattaneo (Milan, Italy)**

Gene Therapy for Platelet Disorders

**Gil White (Milwaukee, USA)**

**Abstract:** A Unique Interaction Between  $\alpha$ IIb- $\beta$ 3 and  $\beta$ 3-Arg261 is Important for  $\alpha$ IIb- $\beta$ 3 Complex Stability and Outside-In Signaling

**Nurit Rosenberg (Tel Hashomer, Israel)**

12:00 pm – 1:00 pm **Lunch**

1:00 pm – 3:00 pm **Free Time**

3:00 pm – 4:30 pm **SESSION VIII: ANTIBODY-MEDIATED PLATELET DISORDERS**

**Moderators: Andreas Greinacher (Greifswald, Germany), Flip de Groot (Utrecht, The Netherlands)**

Heparin-induced Thrombocytopenia

**Andreas Greinacher (Greifswald, Germany)**

The Role of Platelets in the Pathophysiology of the Antiphospholipid Syndrome

**Flip de Groot (Utrecht, The Netherlands)**

Fetal and Neonatal Alloimmune Thrombocytopenia: Recent Developments in Diagnosis and Management

**Cécile Kaplan (Paris, France)**

**Abstract:** Determination of Platelet-Specific Autoantibodies in Autoimmune Thrombocytopenia, Heparin-Induced Thrombocytopenia and Anti-Phospholipid Antibody Syndrome

**Aaron Tomer (Beer-Sheva, Israel)**

4:30 pm – 5:00 pm **Coffee Break**

5:00 pm – 6:30 pm **SESSION IX: PLATELET FUNCTION UNDER FLOW CONDITIONS**

**Moderators: Barbara Furie (Boston, USA), Zaverio Ruggeri (La Jolla, USA)**

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Platelet Adhesive Interactions Involved in Thrombus Formation: Understanding *In Vivo* and *Ex Vivo* Models

**Zaverio Ruggeri (La Jolla, USA)**

Pathways of Platelet Activation *In Vivo*

**Barbara Furie (Boston, USA)**

Regulation of Thrombus Formation *In Vivo* by Thiol Isomerases

**Bruce Furie (Boston, USA)**

**Abstract:** Endothelial Cell Selective Adhesion Molecule (ESAM) Associates With the PDZ Domain Containing Scaffold Protein NHERF-1 in Platelets

**Timothy Stalker (Philadelphia, USA)**

6:30 pm – 7:30 pm **Farewell Dinner**

7:30 pm – 9:00 pm **Posters and Pretzels**

**Saturday, OCTOBER 18**

7:30 am – 8:30 am **Breakfast**

8:30 am – 10:00 pm **SESSION X: PLATELETS IN ATHEROTHROMBOSIS AND INFLAMMATION**

**Moderators: Denisa Wagner (Boston, USA), Willem Ouwehand (Cambridge, UK)**

Unraveling the Genetic Architecture of Atherothrombosis

**Willem Ouwehand (Cambridge, United Kingdom)**

Protein Synthetic Events in Platelets that Contribute to Thrombosis and Inflammation

**Andy Weyrich (Salt Lake City, USA)**

Role of Platelets in Preserving Vascular integrity During Inflammation

**Denisa Wagner (Boston, USA)**

**Abstract:** A Dual Role for Integrin-Linked Kinase in Platelets: Regulating Integrin Function and  $\alpha$ -Granule Secretion

**Katherine Tucker (Vancouver, Canada)**

10:00 am – 10:30 am **Coffee Break**

10:30 am – 12:00 pm **SESSION XI: PHARMACOLOGY 2**

**Moderators: David Kuter (Boston, USA), Larry Frelinger (Worcester, USA)**

Protease-Activated Receptor Antagonists in Platelet-mediated Thrombosis

**Athan Kuliopulos (Boston, USA)**

Novel Antiplatelet Agents

**Larry Frelinger (Worcester, USA)**

Novel Thrombopoietic Agents

**David Kuter (Boston, USA)**

**Abstract:** Interferon- $\gamma$ -Induced Thrombocytopenia is Caused by Inhibition of Platelet Production but not Proliferation and Endomitosis in Human Megakaryocytes

**Akiko Yamane (Tokyo, Japan)**

12:00 pm – 1:00 pm **Lunch and Departure**