



Platelets 2010

6th International Platelet Symposium

Ma'ale Hachamisha, Israel | May 14 - 18, 2010

Friday, May 14

7:00 pm **Dinner**

8:00 pm **Welcome Reception**

Saturday, May 15

7:00 – 8:00 am **Breakfast**

8:00 – 10:00 **SESSION I: PLATELET DEVELOPMENT**

Chairs: Mortimer Poncz (Philadelphia, U.S.A.), Andy Weyrich (Utah, USA)

Invited Lectures:

Unraveling mechanisms of platelet biogenesis

Joseph Italiano (Boston, U.S.A.)

On the road to the production of non-donor-derived platelet transfusions

Mortimer Poncz (Philadelphia, U.S.A.)

New functions of human platelets: developmental implications

Andrew S. Weyrich (Salt Lake City, U.S.A.)

Oral abstracts:

The role of the IAP livin in megakaryocytes differentiation and thrombopoiesis

Ihab Abd-Elrahman, Varda Deutsch, Sigi Kay, Tsahi Noyman, Riki Perlman, Dina Ben-Yehuda (Jerusalem, Israel)

The platelet interior revisited: electron tomography reveals tubular alpha granule subtypes

Hezder van Nispen tot Pannerden, Felix de Haas, Willie Geerts, George Postuma, Suzanne van Dijk, Harry F.G. Heijnen (Utrecht, The Netherlands)

10:00 – 10:30 **Coffee Break**

10:30 – 12:30 pm **SESSION II: PLATELET ACTIVATION I**

Chairs: Peter Newman (Milwaukee, U.S.A.), Wolfgang Siess (Munich, Germany)

Invited Lectures:

Activation of cell adhesion

Mark H. Ginsberg (La Jolla, U.S.A.)

Impact of disturbed blood flow on platelet adhesive function

Shaun P. Jackson (Melbourne, Australia)

FcgRIIa – an ITAM-bearing two-edged sword involved in platelet activation

Peter J. Newman (Milwaukee, United States)

Oral abstracts:

Thrombin and collagen induce a feedback inhibitory signalling pathway in platelets involving dissociation of the catalytic subunit of PKA from an NF- κ B-I κ B complex
Stepan Gambaryan, Anna Kobsar, Sabine Herterich, Suzanne M. Lohmann, Ulrich Walter (Würzburg, Germany)

Apoptosis downregulates the surface expression and adhesive function of major platelet glycoproteins

Simone M. Schoenwaelder, Elizabeth Gardiner, My Hua, Emma C. Josefsson, Michael J. White, Robert K. Andrews, Andrew W. Roberts, David C.S. Huang, Benjamin T. Kile, Shaun P. Jackson (Melbourne, Australia)

12:30– 4:30 **Lunch & Free Time**

4:30– 6:30 **SESSION III: PLATELET ACTIVATION II**

Chairs: Steve Watson (Birmingham, U.K.), Skip Brass (Philadelphia, U.S.A.)

Invited Lectures:

Regulating platelet activation

Lawrence "Skip" Brass (Philadelphia, U.S.A.)

Protein tyrosine phosphatases: positive regulators of platelet activation and formation

Yotis A. Senis (Birmingham, U.K.)

Lyn and PECAM-1: interdependent inhibitors of platelet function

Debra K. Newman (Milwaukee, U.S.A.)

Oral abstracts:

Apolipoprotein A-IV is a platelet β 3 integrin ligand and an endogenous inhibitor of thrombosis

Wuxun Jin, Christopher Spring, Hong Yang, Adili Reheman, Guangheng Zhu, Sean Davidson, Patrick Tso, Yimin She, Terry Cyr, John Freedman, Heyu Ni (Toronto, Canada)

Different structural and functional roles for β 3 cysteines in α IIb β 3 and α v β 3 integrins

Ronit Mor-Cohen, Nurit Rosenberg, Uri Seligsohn (Tel Hashomer, Israel)

6:30 – 8:00 **Dinner**

8:00 – 10:00 **Posters**

Jonathan Wood & Associates

220 Kinderkamack Road, Suite A • Westwood, NJ, USA 07675

Phone: 1-201-594-0400 • Fax: 1-201-594-0409



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Sunday, May 16

7:00 am – 8:00 **Breakfast**

8:00 – 10 :00 **SESSION IV: PLATELET ADHESION**

Chairs: Barbara Furie (Boston, U.S.A.), Zaverio Ruggeri (La Jolla, U.S.A.)

Invited Lectures:

Thiol isomerases and their role in platelet thrombus formation

Bruce Furie (Boston, U.S.A.)

Platelet adhesion under blood flow – a question of perspective?

Armin J. Reininger (Munich, Germany)

Modulation of platelet adhesive function by alpha-thrombin and von Willebrand factor

Zaverio Ruggeri (La Jolla, U.S.A.)

Oral abstracts:

Von Willebrand factor-mediated platelet recruitment is essential for deep vein thrombosis in a mouse model

Alexander Brill, Tobias A. Fuchs, Anil K. Chauhan, Janie J. Yang, Maria Köllnberger, Thomas W. Wakefield, Bernhard Lämmle, Steffen Massberg, Denisa D. Wagner (Boston, U.S.A.)

Three-dimensional analysis of platelets by cryo-electron tomography

Ohad Medalia (Beer Sheva, Israel)

10:00 – 10:30 **Coffee Break**

10:30 – 12:30 pm **SESSION V: PLATELET FUNCTION TESTING**

Chairs: Alan Michelson (Boston, U.S.A.) and Paul Harrison (Oxford, U.K.)

Invited Lectures:

New tests for monitoring P2Y₁₂ inhibition

Paul Harrison (Oxford, U.K.)

The relationship between platelet function and subsequent major adverse clinical outcomes

Alan Michelson (Boston, U.S.A.)

Debate:

Patients should have their antiplatelet therapy monitored by laboratory tests

Moderators: Alan Michelson (Boston, U.S.A.); Paul Harrison (Oxford, U.K.)

Yes: Robert Storey (Sheffield, U.K.)

No: Carlo Patrono (Rome, Italy)

Oral abstracts:

Variable effect of P2Y₁₂ inhibition on platelet thrombus volume in flowing blood

G. Loredana Mendolicchio, Dennis Zavalloni, Monica Bacci, Elena Corrada, Manuel Marconi, Corrado Lodigiani, Patrizia Presbitero, Lidia Rota, Zaverio M. Ruggeri (Milan, Italy)

Effects of atorvastatin on platelet microparticles and thrombin generation in patients with peripheral arterial disease

Fariborz Mobarrez, Shu He, Anders Brøijersén, Björn Wiklund, Gun Jöreskog, Håkan Wallén (Stockholm, Sweden)

12:30 – 4:30 **Lunch & Free Time**

4:30 – 6:30 **SESSION VI: PLATELET GENOMICS AND PROTEOMICS**

Chairs: Willem Ouwehand (Cambridge, U.K.), Paul Bray (Philadelphia, U.S.A.)

Invited Lectures:

Platelet RNA: is small better?

Paul Bray (Philadelphia, U.S.A.)

Any surprises under the quantitative trait loci for platelet volume and count?

Willem Ouwehand (Cambridge, U.K.)

Platelet proteomics for biomarker discovery in acute coronary syndrome

Ángel García-Alonso (Santiago de Compostela, Spain)

Oral abstracts:

The microRNA pathway of human platelets

Patrick Provost (Quebec, Canada)

The PlateletWeb provides the basis of new interacting partners in human platelets exemplified by the interaction of VASP and Abi-1

Marcus Dittich, Marc Fackler, Verena Straßberger, Urs Lewandrowski, Ulrich Walter, Thomas Dandekar, Arnold Ganser, Ingvild Birschmann (Hannover, Germany)

6:30 – 8:00 **Dinner**

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Monday, May 17

7:00 am – 8:00 **Breakfast**

8:00 – 10:00 **SESSION VII: GENETIC AND VASCULAR DISORDERS**
Chairs: Uri Seligsohn (Tel Hashomer, Israel), Beate Kehrel (Muenster, Germany)

Invited Lectures:

Update on inherited platelet function disorders

Marco Cattaneo (Milan, Italy)

Platelet studies to unravel the molecular basis of known and novel inherited human disorders

Kathleen Freson (Leuven, Belgium)

Platelet-derived microparticles: the good news and the bad news

David Varon (Jerusalem, Israel)

Oral abstracts:

A novel Glanzmann thrombasthenia-causing mutation in a highly conserved region of α IIb, Asn2Asp, probably impairs calcium binding by blade 6 of the β -propeller

Wissam Mansour, Nurit Rosenberg, Hagit Hauschner, Yulia Einav, Uri Seligsohn (Tel Hashomer, Israel)

Megakaryocytes death and proplatelet formation deficit contribute to thrombocytopenia in Myh9 knockout mice

Anita Eckly, Jean-Yves Rinckel, Patricia Laeuffer, Jean-Pierre Cazenave, François Lanza, Christian Gachet, Catherine Léon (Strasbourg, France)

10:00 – 10:30 **Coffee Break**

10:30 – 12:30 pm **SESSION VIII: IMMUNE PLATELET DISORDERS**
Chairs: Ellis Neufeld (Boston, U.S.A.), Cécile Kaplan (Paris, France)

Invited Lectures:

Pathogenesis of heparin-induced thrombocytopenia/thrombosis: role of monocytes

Douglas B. Cines (Philadelphia, U.S.A.)

New thrombopoietic agents and their use in ITP

David J. Kuter (Boston, U.S.A.)

Platelet function in ITP patients undergoing TPO mimetic therapy

Simon Panzer (Vienna, Austria)

Oral abstracts:

Predictors of response to therapy in the North American Chronic Immune Thrombocytopenia Registry (NACIR)

Rachael F. Grace, A. Kim Ritchey, Michael Jeng, Manjusha Kumar, Victor Blanchette, Robert J. Klaassen, Carolyn L. Bennett, Margaret Heisel Kurth, George R. Buchanan, Diane J. Nugent, Courtney D. Thornburg, Michelle Neier, Michele P. Lambert, Alexis A. Thompson, Michael Recht, Ellis J. Neufeld (Boston, U.S.A.)

Animal model of fetal and neonatal immune thrombocytopenia: role of neonatal Fc receptor (FcRn)

Pingguo Chen, Conglei Li, Sean Lang, Guangheng Zhu, John Freedman, Heyu Ni (Toronto, Canada)

12:30 – 4:30 **Lunch & Free Time**

4:30 – 6:30 **SESSION IX: ANGIOGENESIS AND NANOPARTICLES**

Chairs: David Varon (Jerusalem, Israel), Giannoula Klement (Boston, U.S.A.)

Invited Lectures:

Platelets regulate tumor growth and angiogenesis in zebrafish embryos

Robert I. Handin (Boston, U.S.A.)

Platelet content of angiogenesis regulators and tumor growth modulation by platelets

Giannoula Klement (Boston, U.S.A.)

Nanoparticles having hemostatic property

Yasuo Ikeda (Tokyo, Japan)

Oral abstracts:

Platelets as carriers of tumor and microenvironment secretomes during prostate cancer growth

B. A. Kerr, R. Miocinovic, A. K. Smith, E. A. Klein, T. V. Byzova (Cleveland, U.S.A.)

Platelet microparticles increase proangiogenic properties of prostate cancer cell lines

Olga Dashevsky, David Varon, Ela Shai (Jerusalem, Israel)

6:30 – 8:00 **Farewell Dinner**

8:00 – 10:00 **Concert**

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Tuesday, May 18

7:30 am – 8:30 **Breakfast**

8:30 – 10:30 **SESSION X: PHARMACOLOGY I**

Chairs: Carlo Patrono (Rome, Italy), Paul Hjerdahl (Stockholm, Sweden)

Invited Lectures:

Clinical pharmacology of COX-1 inhibition by aspirin in diabetes

Carlo Patrono (Rome, Italy)

Clopidogrel resistance – what can be done?

Shlomi Matetzky (Tel Hashomer, Israel)

New platelet inhibitors: PLATO and beyond

Robert Storey (Sheffield, U.K.)

Oral abstracts:

Inhibitors of α_2 -adrenergic receptor and Gq-protein signaling improve poor response of acute coronary syndrome platelets to P2Y₁₂ antagonist

Naphtali Savion, Shlomi Matetzky, Ivan Budnik, Boris Shenkman (Tel Hashomer, Israel)

LXR, FXR, and PPAR γ : a nuclear receptor net that regulates the function of the anucleate platelet

Michael Spyridon, Leonardo A. Moraes, Jonathan M. Gibbins (Reading, U.K.)

10:30– 11:00 **Coffee Break**

11:00– 12:30 pm **SESSION XI: PHARMACOLOGY II**

Chairs: Christian Gachet (Strasbourg, France), Marco Cattaneo (Milan, Italy)

Invited Lectures:

Old and new targets and drugs in arterial thrombosis

Christian Gachet (Strasbourg, France)

Novel approaches to GPIIb-IIIa inhibition

Joel S. Bennett (Philadelphia, U.S.A.)

Roundtable discussion: Which antiplatelet drugs for which patients: now and in the future?

Moderators: *Christian Gachet (Strasbourg, France), Marco Cattaneo (Milan, Italy)*

Participants: *Robert Storey (Sheffield, U.K.), Shlomi Matetzky (Tel Hashomer, Israel), Carlo Patrono (Rome, Italy)*

12:30 – 1:30 **Lunch & Departure**