European Platelet Network EUPLAN

3rd EUPLAN Conference  http://www.euplan.eu

Basic and Clinical aspects of platelet research including megakaryocytes

September 21-23, 2016, Bad Homburg vor der Höhe (Germany)

Programme

Wednesday, September 21, 2016

From 18:30  Welcome drink

Session 1  
19:30 - 20:30  Pharmacology and Clinical Aspects  
Chairpersons:  Michael Buerke (Siegen, Germany)  
  Peter Presek (Halle, Germany)
19:30 - 20:00  Keynote Lecture  
  Meinrad Gawaz (Tübingen, Germany)  
  Antithrombotic therapy with cardiovascular risk patients
20:00 - 20:30  Keynote Lecture  
  Christian Gachet (Strasbourg, France)  
  Antiplatelet drugs: toward improved safety profile?

20:30  Dinner
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Thursday, September 22, 2016

Session 2

08:30 - 10:30 Megakaryocyte and Platelet Signaling
Chairpersons: Steve Watson (Birmingham, UK)
               Angel Garcia (Santiago de Compostela, Spain)

08:30 - 09:00 Keynote Lecture
Markus Bender (Würzburg, Germany)
Cytoskeletal dynamics in megakaryocytes and platelets

09:00 - 10:30 Oral communications

09:00 – 09:15 OC01
Daniela Semeniak (Würzburg, Germany)
Proplatelet formation is selectively inhibited by collagen type I via Syk-independent
GPVI signaling

09:15 – 09:30 OC02
Catherine Strassel (Strasbourg, France)
Selected expression and functional importance of α4a-tubulin in platelet biogenesis

09:30 – 09:45 OC03
Markus Spindler (Würzburg, Germany)
Microthrombocytopenia and premature platelet release in ADAP-deficient mice

09:45 – 10:00 OC04
Jun Mori (Birmingham, UK)
Maintenance of platelet homeostasis by the kinase-phosphatase pair Csk-CD148

10:00 – 10:15 OC05
Knut Fälker (Örebro, Sweden)
The inhibitory effects of concomitant cGMP and cAMP elevation on thrombin-
induced platelet responses are abrogated by epinephrine via a2A adrenoceptors
and the interplay of Gαz- and β/γ-subunit signal

10:15 – 10:30 OC06
Loredana Bury (Perugia, Italy)
Megakaryocyte and platelet dysfunction in Platelet-type Von Willebrand Disease

10:30 - 11:00 Coffee break

11:00 - 12:30 Poster Session
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12:30 - 14:00 Lunch

Session 3
14:00 - 18:00 Platelet Activation / Inhibition
Chairpersons: Kerstin Jurk (Mainz, Germany)
               Alastair Poole (Bristol, UK)

14:00-14:30 Keynote Lecture
Natalie Poulter (Birmingham, UK)
Super resolution microscopy gives new insights into platelet activation

14:30 - 16:00 PART I - Oral communications

14:30 - 14:45 OC07
Ahmed Aburima (Hull, UK)
Platelet-derived Thrombospondin-1 Modulates cAMP Signaling To Promote Platelet Activation

14:45 - 15:00 OC08
Samantha Montague (Birmingham, UK)
Fibrin stimulation of platelets induces GPVI shedding

15:00 -15:15 OC09
Dina Vara (Bath, UK)
Characterisation of the role of NADPH oxidase 1 in GPVI signalling and
development of novel platelet inhibitors targeting this enzyme

15:15 - 15:30 OC10
Gianni Guidetti (Pavia, Italy)
Novel pharmacological inhibitors demonstrate the role of the tyrosine kinase Pyk2
in adhesion and aggregation of human platelets

15:30 - 15:45 OC11
Lisa-Marie Holbrook (Reading, UK)
The identification and characterization of a novel, selective platelet-surface ERp57
inhibitor which modulates platelet function independently of outside-in signaling
through integrin αIIbβ3

15:45 - 16:00 OC12
Martin Berger (Hull, UK) – 15:45
Dyslipidaemia associated oxidized phospholipids induce platelet hyperactivity
through CD36 and PLCγ2 dependent ROS production
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16:00 - 16:30 Coffee break

16:30 – 18:00 PART II - Oral communications
Chairpersons: Bernard Payrastre (Toulouse, France) Mauro Torti (Pavia, Italy)

16:30 - 16:45 OC13
Giorgia Manni (Perugia, Italy)
Thrombin activation induces miR-223 maturation downregulating P2Y12 mRNA expression in human platelets

16:45 - 17:00 OC14
Sophie Lepropre (Louvain, Belgium)
AMPKalpha1 participates in the regulation of thrombin-induced phosphatidylserine exposure in platelets through acetyl-CoA carboxylase phosphorylation

17:00 - 17:15 OC15
Craig Hughes (Reading, UK)
Btk is regulated downstream of Syk in GPVI and CLEC-2-stimulated platelets

17:15 - 17:30 OC16
Giordano Pula (Bath, UK)
Extracellular fibrinogen binding protein (Efb) from S. aureus inhibits the formation of platelet/leukocyte complexes

17:30 - 17:45 OC17
Raghavendra Palankar (Greifswald, Germany)
Role of platelet factor 4 (PF4) and anti-platelet PF4/Polyanion IgG antibodies in FcγRIIA mediated platelet anti-bacterial activity

17:45 - 18:00 OC18
Laurence Servais (Liège, Belgium)
Clopidogrel prevents colitis-associated carcinogenesis by inhibiting myeloid cell immunosuppressive activity in tumor microenvironment

18:00 – 18:30 Keynote Lecture
Tomas Lindahl (Linköping, Sweden)
Platelets and coagulation - from antiplatelet drugs to NOACs

20:00 Dinner
Session 4

08:30 - 10:30 Platelets and Thrombosis

Chairpersons: Johan Heemskerk (Maastricht, The Netherlands)
Ilaria Canobbio (Pavia, Italy)

08:30 – 09:00 Keynote Lecture
Christophe Dubois (Marseille, France)
Mechanisms of thrombus formation in cancer

09:00 - 10:30 Oral communications

09:00 - 09:15 OC19
Sonia Severin (Toulouse, France)
Dual role for class III PI3K, Vps34, in platelet production and thrombus growth

09:15 - 09:30 OC20
Judith Cosemans (Maastricht, The Netherlands)
Platelet-thrombi display proteolytic activity in vivo and remodel the vessel wall locally at the site of injury

09:30 - 09:45 OC21
Carmen Coxon (Bristol, UK)
Thioredoxin inhibitors inhibit platelet function and thrombus formation

09:45 - 10:00 OC22
Marijke Kuijpers (Maastricht, The Netherlands)
Tyrosine kinase inhibitors sunitinib and pazopanib inhibit platelet function in vitro and in cancer patients

10:00 - 10:15 OC23
Paul Armstrong (London, UK)
Reticulated platelets undermine pharmacokinetically short-lived anti-platelet therapies

10:15 - 10:30 OC24
Ilaria Canobbio (Pavia, Italy)
Increased platelet adhesion and thrombus formation in a mouse model of Alzheimer’s Disease

10:30 - 11:00 Coffee break
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11:00 - 12:30  Poster Session
12:30 - 14:00  Lunch

Session 5
14:00 - 15:45  Platelets and Disease
Chairpersons:  Hans Deckmyn (Kortrijk, Belgium)
              Christian Gachet (Strasbourg, France)

14:00 - 14:30  Keynote Lecture
Johan Heemskerk (Maastricht, The Netherlands)
Platelet: different types, different environment, different functions

14:30 - 15:45  Oral communications

14:30 - 14:45  OC25
Odile Wera (Liege, Belgium)
P2X1 ion channel is critical for vascular integrity in inflammation

14:45 - 15:00  OC26
Eleonore Petito (Perugia, Italy)
Platelet recruitment and activation in the joint cavity in rheumatoid arthritis (RA)

15:00 - 15:15  OC27
Julia Pointner (Wien, Austria)
Platelet PI3K in Acute Lung Injury

15:15 - 15:30  OC28
Bela Nagy Jr. (Debrecen, Hungary)
Sepsis alters platelet microRNA levels that may contribute to increased platelet reactivity

15:30 - 15:45  OC29
Magdolna Nagy (Maastricht, The Netherlands)
Variable linkage with platelet functions of genetic mutations in ORAI1, STIM1 or FERMT3 in patients with severe immune deficiencies

15:45 - 16:00  Concluding remarks
Next meeting

16:15  Departures
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POSTERS

P01 Fortunato Tiago (Bath, UK)
Platelet lysate gel and endothelial progenitors stimulate microvascular network formation in vitro

P02 Lisa-Marie Holbrook (Reading, UK)
A humanized monoclonal antibody that inhibits platelet-surface ERp72 reveals a role for ERp72 in platelet function

P03 Celine Delierneux (Liège, Belgium)
CLEC-2 mediates platelet activation by CpG oligodeoxynucleotide therapeutics

P04 Stefan Heber (Vienna, Austria)
Correlation between Cardiorespiratory Fitness and Platelet Function in Healthy Women

P05 Alice Pollitt (Reading, UK)
Large differences in protein expression levels between mouse and human platelets do not effect Syk activation downstream of GPVI

P06 Christopher Smith (Birmingham, UK)
LAIR-1 and PECAM-1 function as interdependent inhibitors of platelet aggregation

P07 Dina Vara (Bath, UK)
The novel NOX inhibitor, 2-acetylphenothiazine impairs collagen-dependent thrombus formation in a GPVI-dependent manner

P08 Tomas Lindahl (Linköping, Sweden)
Heparin does not abolish thrombin activation of platelets through PAR1

P09 Marta Brambilla (Milano, Italy)
Circulating microvesicles in cardiovascular disease: predictive value in coronary artery bypass graft patency

P10 Thi-Huong Nguyen (Greifswald, Germany)
Direct Measurement of Rupture Force between Human Blood Platelets at different Degrees of Activation by Single Cell Force Spectroscopy

P11 Roberta Rolla (Novara, Italy)
Impact of long-term dual antiplatelet therapy on immature platelet count and platelet reactivity
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P12 Zoltan Nagy (Birmingham, UK)
The GPIbα-Cre transgenic mouse: a new tool for platelet biologists

P13 Kjersti Claesson (Linköping, Sweden)
Redistribution of procoagulant platelets during thrombus formation is dependent on aggregation

P14 Silvia S. Barbieri (Milano, Italy)
Effect of cigarette smoke on platelet-derived Brain Derived Neurotrophic Factor (BDNF): impact on thrombosis

P15 Marta Brambilla (Milano, Italy)
Angiotensin II and hypertension stimulate platelets to express Tissue Factor

P16 Kirk Taylor (Cambridge, UK)
Interplay between calcium and zinc: implications for platelet activation

P17 Gunawardena Dammika (Sri Jayawardenapura, Sri Lanka)
Identifying the characteristics, natural behavioral pattern, and response to therapy in ITP in a multicenter population in Sri Lanka

P18 Andreas Wersall (Bristol, UK)
Ral GTPases: Key regulators of platelet secretion

P19 Morgane Batzenschlager (Strasbourg, France)
Regulation of tubulin acetylation during megakaryopoiesis and identification of novel acetylation sites in platelet microtubules

P20 Anastasia Sveshnikova (Moscow, Russia)
Platelet PAR4 activity influences the dynamics of procoagulant subpopulation formation

P21 Irene Izquierdo (Santiago de Compostela, Spain)
Extensive proteomic analysis of platelet lipid rafts: setting the basis for proteome analyses of these membrane domains in activated platelets

P22 Surasak Wichaiyo (Birmingham, UK)
Podoplanin cytoplasmic tail-deficient mouse model as a tool to investigate the role of C-type lectin-like receptor-2 and podoplanin interaction

P23 Marko Damm (Halle, Germany)
Human platelet PLD regulates MAP-kinases downstream of Gi/Gz-receptor-mediated PI3K γ and β signaling

P24 Anita Eckly-Michel (Strasbourg, France)
Distinct modes of platelet granule exocytosis: single versus compound exocytosis depending on the stimulus
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P25  Manuel Salzmann (Vienna, Austria)
The role of IKK2 in megakaryocyte and platelet function

P26  Ivana Bertovic (Rijeka, Croatia)
Phosphatidylinositol 3-monophosphate (pI3p) regulates proplatelet formation in vitro

P27  Maria Nunez Barrachina (Santiago de Compostela, Spain)
Platelet and plasma microvesicles proteomic analysis in obese patients: a pilot study

P28  Ejaife Agbani (Bristol, UK)
Membrane ballooning in aggregated platelets is synchronised and mediates rapid microvesicle release

P29  Flora Gagan (Reading, UK)
The Pregnane X receptor exhibits non-genomic effects to inhibit platelet function

P30  Hamaia Samir (Cambridge, UK)
Engineering scFvs (single chain variable fragments) to platelet glycoprotein VI

P31  Samir Hamaia (Cambridge, UK)
The recognition of collagen by the vWF a domains

P32  Melissa Hayman (London, UK)
Tracking and functional analysis of reticulated platelets

P33  Elena Walter (Mainz, Germany)
The protein phosphatase 2A inhibitor α-endosulfine (ENSA) is a substrate of both cAMP- and cGMP-dependent protein kinases in human platelets

P34  Arnaud Dupuis (Strasbourg, France)
Identification of two new P2RY12 heterozygous mutations responsible for hemorrhagic diathesis in two unrelated families

P35  Anastasia Ignatov (Moscow, Russia)
Impaired platelet function in patients with chronic lymphoblastic leukemia and mantle cell lymphoma treated with ibrutinib: differentiating effects of the drug from those of the disease

P36  Bernard Payrastre (Toulouse, France)
Severe aortic stenosis-induced platelet activation and high plasma lipoxygenase products are rapidly corrected by transcatheter aortic valve replacement

P37  Madelene Johansson (Örebro, Sweden)
IL6/IL6R induce slow and sustained tyrosine phosphorylation of STAT3 in human platelet mitochondria

P38  Caroline Kardeby (Örebro, Sweden)
Synthetic fucoidan-mimetic sulfated glycopolymers provoke molecular and cellular responses in human blood platelets
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P39 Anastasia Sveshnikova (Moscow, Russia)
Comprehensive systems biology modeling of platelet activation integrating signal transduction pathways via P2Y1, P2Y12, PAR1 and PAR4

P40 Zeki Ilkan (Leicester, UK)
Role for the mechanosensitive ion channel Piezo1 in shear-dependent calcium entry in human platelets and thrombus formation

P41 Chiara Pallini (Birmingham, UK)
Investigating collagen receptor organization and signalling using super resolution microscopy and cluster analysis

P42 Johanna van Geffen (Maastricht, The Netherlands)
(Anti)coagulation pathways in whole-blood assessment of platelet-driven thrombus clot formation under flow to dissect hemostatic disorders

P43 Tony Walsh (Bristol, UK)
Cardioprotective roles for platelet secretion during ischaemia

P44 Niaz Ahmed (Cambridge, UK)
Modelling intracellular zinc release in platelets

P45 Daniel Ebert (Halle, Germany)
α2-adrenoceptor agonists overcome ADP receptor-mediated platelet inhibition

P46 Joanna-Marie Howes (Cambridge, UK)
Matrix metalloproteinase-13 interacts with several platelet receptors and their substrates and significantly attenuates platelet aggregation and thrombus formation

P47 Martina Bucsaiova (Vienna, Austria)
Interaction of platelets with dendritic cells

P48 Khaled Sahli (Reading, UK)
Connexin 62 hemichannels and gap junctions regulate the function of platelets

P49 Philippe Ohlmann (La Ferté Saint-Aubin, France)
Microfibrillar murine collagen from tail tendon: a new tool for studying collagen pathways signalling in mouse platelets

P50 Simla Cobanoglu (Gazi, Turkey)
Structure-based virtual screening to discover platelet gpVI inhibitors

P51 Ying Di (Birmingham, UK)
Development of a stable cell line for clinical diagnostic testing of heparin-induced thrombocytopenia (HIT)

P52 Janay Gibbons (Cambridge, UK)
Probing the effect of free fatty acids on platelet activation in vitro

P53 Stephanie M. Jung (Cambridge, UK)
Analysis of receptor expression after activation of platelets by flow cytometry
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**P54**  
Martin Berger (Hull, UK)  
Dyslipidemia associated oxidized LDL impairs inhibitory cAMP signaling through a CD36-dependent activation of PDE3A

**P55**  
Sophie Lepropre (Louvain, Belgium)  
Sustained inhibition of acetyl-CoA carboxylase decreases platelet dense granules secretion and aggregation

**P56**  
Waltraud Schrottmaier (Vienna, Austria)  
Platelet PI3K p110β inhibition reduces leukocyte recruitment and exacerbates pneumococcal pneumonia

**P57**  
Zsolt Fejes (Debrecen, Hungary)  
Hyperglycemia depresses the expression of platelet miR-223, miR-26b and miR-140 in type 2 diabetes mellitus

**P58**  
Sofia Ramstrom (Linköping, Sweden)  
Platelet subpopulations – do they exist?

**P59**  
Aisha Alsheikh Abu Baker (Bath, UK)  
Novel dihydroethidium-based flow cytometric assay for the analysis of intracellular superoxide anion and its utilisation to discover the oxidative stress induced by amyloid peptides in human platelets

**P60**  
Katie Wraith (Hull, UK)  
Critical Role for ITAM dependent signaling in CD36-mediated platelet activation by oxidised low density lipoproteins