

# European Platelet Network **EUPLAN**

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

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*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  $\alpha$ 4a-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  $\alpha$ 2A adrenoceptors and the interplay of  $G_{\alpha z}$ - and  $\beta/\gamma$ -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  $\alpha$ IIb $\beta$ 3**

15:45 - 16:00 **OC12**

Martin **Berger** (Hull, UK) – 15:45

**Dyslipidaemia associated oxidized phospholipids induce platelet hyperactivity through CD36 and PLC $\gamma$ 2 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 Leprore (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

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**Friday, September 23, 2016**

## **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 GPIb $\alpha$ -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  $\gamma$  and  $\beta$  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  $\alpha$ -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 lipoxigenase 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)  
 **$\alpha$ 2-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 Leprope (Louvain, Belgium)  
**Sustained inhibition of acetyl-CoA carboxylase decreases platelet dense granules secretion and aggregation**
- P56** Waltraud Schrottmaier (Vienna, Austria)  
**Platelet PI3K p110 $\beta$  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**