



3<sup>rd</sup> Symposium  
**Platelets**

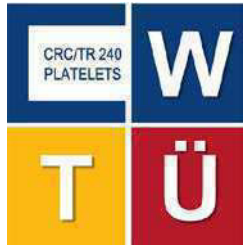
24<sup>th</sup> - 26<sup>th</sup> October 2019  
University Tübingen

Conference Center  
Otfried-Müller-Str. 6  
72076 Tuebingen



Tuebingen  
Platelet  
Investigative  
Consortium

KFO 274



## 3<sup>rd</sup> Symposium Platelets

Robert Ahrends (DE)  
Stella Autenrieth (DE)  
Tamam Bakchoul (DE)  
Markus Bender (DE)  
Oliver Borst (DE)  
Robert Feil (DE)  
Meinrad Gawaz (DE)  
Tobias Geisler (DE)  
Andreas Greinacher (DE)  
Katrin Heinze (DE)  
Peter U. Heuschmann (DE)  
Harald Langer (DE)  
Robert Lukowski (DE)  
Karin Müller (DE)  
Bernhard Nieswandt (DE)  
Nicolas Bézière (DE)  
Irina Pleines (DE)  
Tilman E. Schäffer (DE)  
Peter Seizer (DE)  
Thilo Stehle (DE)  
David Stegner (DE)  
Guido Stoll (DE)  
Harald Schulze (DE)  
Sebastian Vogel (USA)  
Ulf Ziemann (DE)  
Lars Zender (DE)  
Dominik Rath (DE)  
Jürgen Bernhagen (DE)  
Peter Rosenberger (DE)  
Steffen Borrmann (DE)

### *Featured Speakers*

Christoph Bode (DE)  
Daniel Dürschmied (DE)  
Johan W.M. Heemskerk (NL)  
Mathias Heikenwälder (DE)  
Hugo A. Katus (DE)  
Netanel Korin (IL)  
Patricia Maguire (IRL)  
Klaus Ley (USA)  
Götz Münch (DE)  
Karlheinz Peter (AUS)  
Alastair Poole (UK)  
Matthew T. Rondina (USA)  
Wolfram Ruf (DE)  
Robert Storey (UK)

EBERHARD KARLS  
UNIVERSITÄT  
TÜBINGEN





### Thursday, 24<sup>th</sup> October 2019

- |               |   |
|---------------|---|
| 07:30 – 08:00 | Registration und Get Together   |
| 08:00 – 08:05 | <b>Welcome</b>  |
| 08:00 – 12:00 | <b>Session I</b><br>Platelets- Molecular Mechanism and Translational Implications.<br>Highlights from “CRU 274” |
| 13:30 – 15:00 | <b>Session II</b><br>Platelet Signaling   |
| 15:30 – 17.30 | <b>Session III</b><br>Thrombopoiesis & Thrombocytopenia   |
| 17:30 – 19.30 | <b>Get together and poster session</b>  |

24<sup>th</sup>

### Friday, 25<sup>th</sup> October 2019

- |               |   |
|---------------|---|
| 09:00 – 10:20 | <b>Session IV</b><br>Novel techniques to study platelet morphology and function |
| 10:50 – 12:00 | <b>Session V</b><br>Immunodefense   |
| 13:00 – 15:00 | <b>Session VI</b><br>Thrombo-Inflammation                                       |
| 16:00 – 17:00 | <b>Session VII</b><br>Translational aspects                                     |
| 17:30 – 18:30 | <b>Plenary Lecture</b>  |
| 19:30 – 21:30 | <b>Get together</b>   |

25<sup>th</sup>

### Saturday, 26<sup>th</sup> October 2019

- |               |   |
|---------------|---|
| 09:00 – 10:20 | <b>Session VIII</b><br>Platelet in neuronal & myocardial diseases |
| 10:50 – 12:30 | <b>Session IX</b><br>Immunodefense                                |
| 12:30 – 15:00 | <b>Closing of the Symposium</b>                                   |

26<sup>th</sup>



## 3<sup>rd</sup> Symposium Platelets

Thursday, 24<sup>th</sup> October 2019

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Session I

- 08:00 **Opening and Welcome Remarks**  
Meinrad Gawaz, Tuebingen
- 08:00 **Platelets- Molecular Mechanism and Translational Implications. Highlights from "CRU 274"**  
Chairs: Meinrad Gawaz, Tuebingen  
Harald Langer, Tuebingen
- 08:00 **Macrophage migration inhibitory factor (MIF) novel ligand for the chemokine receptor CXCR7**  
Meinrad Gawaz, Tuebingen
- 08:20 **Structural analyses of Junctional Adhesion Molecules and their ligands**  
Thilo Stehle, Tuebingen
- 08:40 **Extracellular Cyclophilin A is essential for EMMPRIN -dependent cell function**  
Peter Seizer, Tuebingen
- 09:00 **CK2 $\beta$  is a critical regulator of thrombopoiesis and Ca<sup>2+</sup>-triggered platelet activation in arterial thrombosis**  
Oliver Borst, Tuebingen
- 09:20 **SICM and live imaging of single platelets**  
Tilman E. Schäffer, Tuebingen
- 09:40 – 10:10 **Coffee Break**
- 10:10 **Imaging disruption of the Extra-Cellular Matrix using a GPVI fusion protein**  
Nicolas Bézière, Tuebingen
- 10:30 **Platelets induce apoptosis via membrane-bound FasL**  
Harald Langer, Tuebingen
- 10:50 **Value of platelet polymorphisms as risk predictor in cardiovascular patients**  
Tobias Geisler, Tuebingen
- 11:10 **Role of cGMP in regulation of platelet function**  
Robert Feil, Tuebingen



- 11:30 **Linking Thrombosis and Inflammation: Mechanisms and Therapeutic Opportunities for Platelet-Derived HMGB1**  
Sebastian Vogel, Bethesda

12:00 **Lunch Break**

- 13:30 **Platelet Signaling**  
Chairs: Oliver Borst, Tuebingen  
Bernhard Nieswandt, Wuerzburg
- 13:30 **GPVI and CLEC-2 in platelet ITAM signaling**  
Bernhard Nieswandt, Wuerzburg
- 14:00 **Molecular regulation of platelet secretion**  
Alastair Poole, Bristol
- 14:30 **Wnt signaling in platelets**  
Patricia Maguire, Dublin

Session II

15:00 – 15:30 **Coffee Break**

- 15:30 **Thrombopoiesis and Thrombocytopenia**  
Chairs: Taman Bakchoul, Tuebingen  
Markus Bender, Wuerzburg
- 15:30 **Regulation of Thrombopoiesis by the bone marrow vasculature**  
David Stegner, Wuerzburg
- 16:00 **Influence of the subendothelial matrix on platelet biogenesis**  
Harald Schulze, Wuerzburg
- 16:30 **Pathophysiology of Autoimmune Thrombocytopenia**  
Taman Bakchoul, Tuebingen
- 17:00 **Mechanisms of megakaryocyte polarisation and platelet biogenesis**  
Irina Pleines, Wuerzburg
- 17:30 **Get together and poster session**

Session III

Poster Session



## 3<sup>rd</sup> Symposium Platelets

# Friday, 25<sup>th</sup> October 2019

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### Session IV

- 09:00 **Novel techniques to study platelet morphology and function**  
Chairs: Robert Feil, Tuebingen  
TBA
- 09:00 **Novel approaches to study platelet production**  
Markus Bender, Wuerzburg
- 09:20 **Targeted Drug Delivery to Flow-Obstructed Blood Vessels Using Mechanically Activated Nanotherapeutics**  
Netanel Korin, Haifa
- 09:40 **How changes in the platelet lipidome may modulate platelet function?**  
Robert Ahrends, Dortmund
- 10:00 **Imaging of the bone marrow *in vivo*, *in vitro* and *in silico***  
Katrin Heinze, Wuerzburg

10:20 - 10:50 **Coffee Break**

### Session V

- 10:50 **Immunodefense**  
Chairs: Jürgen Bernhagen, Munich  
Stella Autenrieth, Tuebingen
- 10:50 **Immunothrombosis bridging innate and specific immunity**  
Andreas Greinacher, Tuebingen
- 11:10 **Role of platelet serotonin in innate immune cell recruitment**  
Daniel Dürschmied, Freiburg
- 11:30 **Platelet IFITM3 and antiviral immune response**  
Matthew T. Rondina, Salt Lake City

12:00 **Lunch Break**



- 13:00 **Thrombo-Inflammation**  
Chairs: Klaus Ley, La Jolla  
Peter Rosenberger, Tuebingen
- 13:00 **Immunity and Inflammation in Atherosclerosis**  
Klaus Ley, La Jolla
- 13:30 **TBA**  
Paolo Gresele, Perugia
- 14:00 **Cross-talk of platelets, coagulation and neutrophils in thrombus formation**  
Johan W.M. Heemskerk, Maastricht
- 14:30 **Thrombo-Inflammation in Cardiovascular Disease**  
Wolfram Ruf, Mainz

15:00 – 16:00 **Coffee Break**

- 16:00 **Translational aspects**  
Chairs: Tobias Geisler, Tuebingen  
Peter U. Heuschmann, Wuerzburg
- 16:00 **Platelets in Cardiac Ischaemia/Reperfusion Injury - A Promising Therapeutic Target**  
Karlheinz Peter, Melbourne
- 16:30 **Recombinant GPVI-Fc and its new therapeutic applications**  
Götz Münch, Martinsried

17:00 – 17:20 **Coffee Break**

Chairs: Meinrad Gawaz & Christoph Bode

- 17:30 – 18:30  
**Hugo A. Katus**  
“Major achievements to control acute coronary syndrome: Troponin”

- 18:30 – 19:00  
**Robert Storey**  
“DAPT”

- 19:30 **Get together**



## 3<sup>rd</sup> Symposium Platelets

Saturday, 26<sup>th</sup> October 2019

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### Session VIII

- 09:00 **Platelet in neuronal & myocardial diseases**  
Chairs: Ulf Ziemann, Tuebingen  
Peter Seizer, Tuebingen
- 09:00 **Platelet-dependent injury and safeguard mechanisms in acute ischaemic stroke**  
Guido Stoll, Wuerburg
- 09:20 **Role of cardio-vascular cGMP signaling for the cellular adaption to patho-/physiological stress**  
Robert Lukowski, Tuebingen
- 09:40 **Platelet-derived inflammatory mediators in degenerative aortic valve disease and subclinical endocarditis**  
Karin Müller, Tuebingen
- 10:00 **TBA**  
Dominik Rath, Tuebingen

10:20 – 10:50 **Coffee Break**

### Session IX

- 10:50 **Platelets in diseases beyond thrombosis**  
Chairs: Meinrad Gawaz, Tuebingen  
Oliver Borst, Tuebingen
- 10:50 **Role of platelets for initiation, progression and maintenance of cholangiocarcinoma metastasis**  
Lars Zender, Tuebingen
- 11:10 **Platelet GPIIb/IIIa is a mediator and potential interventional target for NASH and subsequent liver cancer**  
Mathias Heikenwälder, Heidelberg
- 11:30 **Platelets in Acute Respiratory Distress Syndrome**  
Peter Rosenberger, Tuebingen
- 11:50 **Platelets and their role in the elimination of Plasmodium-infected red blood cells**  
Steffen Borrmann, Tuebingen
- 12:30 **Closing remarks**





### **Robert Ahrends**

Group leader of Lipidomics  
Leibniz-Institut für Analytische Wissenschaften – ISAS – e.V.  
Dortmund, Germany

### **Stella Autenrieth**

Group leader & chair of core facility flow cytometry  
Laboratory for dendritic cells  
University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

### **Tamam Bakchoul**

Medical Director of Center for Clinical Transfusion Medicine  
Medical Faculty Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

### **Nicolas Bézière**

Group Leader – Inflammation Imaging  
Werner Siemens Imaging Center  
Tuebingen, Germany

### **Markus Bender**

Group leader  
Institute of Experimental Biomedicine – Chair I  
University Hospital and Rudolf Virchow Center  
Wuerzburg, Germany

### **Jürgen Bernhagen**

Chair of Vascular Biology, Institute for Stroke and  
Dementia Research (ISD)  
Klinikum der Universität München (KUM), Ludwig-Maximilians-University (LMU)  
Munich, Germany

### **Christoph Bode**

Medical Director of the Department of Cardiology and Angiology I  
University of Freiburg, Faculty of Medicine, Internal Medicine III  
Freiburg, Germany

### **Steffen Borrmann**

Group leader  
Institute for Tropical Medicine  
University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

### **Oliver Borst**

Group leader  
Department of Cardiology and Angiology  
University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany



## 3<sup>rd</sup> Symposium Platelets

### Chairs & Speakers

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#### **Daniel Dürschmied**

Group leader – Platelets in Inflammation  
Department of Cardiology and Angiology I  
Heart Center, Faculty of Medicine, University of Freiburg  
Freiburg, Germany

#### **Robert Feil**

Head of the Department of Signal Transduction & Transgenic Models  
Interfaculty Institute of Biochemistry, University of Tübingen  
Tuebingen, Germany

#### **Meinrad Gawaz**

Medical Director of the Department of Cardiology and Angiology III  
University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

#### **Tobias Geisler**

Group leader – Clinical trials  
University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

#### **Andreas Greinacher**

Head of the Department of Transfusion Medicine  
Institute for Immunology and Transfusion Medicine  
University Medicine of Greifswald  
Greifswald, Germany

#### **Paolo Gresele**

Full Professor of Internal Medicine  
Department of Medicine – Section of Internal and Cardiovascular  
Medicine  
University of Perugia  
Perugia, Italy

#### **Johan W.M. Heemskerk**

Full professor – Personal chair  
Department of Biochemistry  
Cardiovascular Research Institute Maastricht (CARIM) Maastricht Uni-  
versity  
Maastricht, The Netherlands

#### **Mathias Heikenwälder**

Group leader  
Division of Chronic Inflammation and Cancer (F180)  
German Cancer Research Center  
Heidelberg, Germany

#### **Katrin Heinze**

Group leader  
Rudolf Virchow Center for Experimental Biomedicine  
University of Würzburg  
Wuerzburg, Germany



**Netanel Korin**

Group leader  
Department of Biomedical Engineering  
Technion – Israel Institute of Technology  
Haifa, Israel

**Klaus Ley**

Division Head  
Division of Inflammation Biology  
La Jolla Institute for Immunology  
La Jolla, USA

**Robert Lukowski**

Group leader  
Department of Pharmacology, Toxicology and Clinical Pharmacy  
Institute of Pharmacy, University of Tuebingen  
Tuebingen, Germany

**Patricia Maguire**

Director of UCD Institute for Discovery  
University College Dublin  
School of Biomolecular and Biomedical Science  
Conway Institute Belfield  
Dublin, Ireland

**Karin Müller**

Group leader  
University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

**Götz Münch**

Chief Executive Officer  
advanceCOR GmbH  
Martinsried, Germany

**Bernhard Nieswandt**

Professor of Experimental Biomedicine and Chair  
University Hospital and Rudolf Virchow Center  
University of Würzburg  
Wuerzburg, Germany

**Karlheinz Peter**

Deputy Director (Basic and Translational Research)  
Head of the Atherothrombosis Program  
Head of the Atherothrombosis and Vascular Biology Laboratory  
Baker Heart and Diabetes Institute  
Melbourne, Australia

**Irina Pleines**

Group leader, Institute of Experimental Biomedicine I  
University Hospital and Rudolf Virchow Center, University of Wuerzburg  
Wuerzburg, Germany



## 3<sup>rd</sup> Symposium Platelets

### Chairs & Speakers

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#### **Alastair Poole**

Professor of Pharmacology and Cell Biology  
School of Physiology, Pharmacology & Neuroscience  
University of Bristol  
Bristol, United Kingdom

#### **Dominik Rath**

Group leader  
University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

#### **Matthew Rondina**

Associate Professor of Internal Medicine &  
Adjunct Associate Professor of Microbiology and Immunology  
Molecular Medicine Program, University of Utah  
Department of Internal Medicine  
George E. Wahlen VAMC Department of Internal Medicine and GRECC  
Salt Lake City, USA

#### **Peter Rosenberger**

Medical Director of the Department of Anesthesiology &  
Intensive Care Medicine  
University Hospital Tuebingen, Eberhard-Karls-University Tuebingen  
Tuebingen, Germany

#### **Wolfram Ruf**

Scientific Director and Professor of Experimental Hemostaseology  
Center for Thrombosis and Hemostasis  
Johannes Gutenberg University Medical Center  
Mainz, Germany

#### **Robert Storey**

Head of the Platelet Research Group &  
Director of the Cardiovascular Research Unit  
Department of Infection, Immunity and Cardiovascular Disease  
University of Sheffield, Medical School  
Sheffield, United Kingdom

#### **Tilman E. Schäffer**

Professor of Physics / Medical Engineering  
Institute of Applied Physics, University of Tuebingen  
Tuebingen, Germany

#### **Harald Schulze**

Group leader - Experimental Hemostaseology  
Institute of Experimental Biomedicine-Department I  
University Hospital Wuerzburg  
Wuerzburg, Germany



### **Peter Seizer**

Group leader

University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

### **David Stegner**

Group leader

Institute of Experimental Biomedicine–Department I, University Hospital  
Wuerzburg  
Rudolf Virchow Center, DFG Research Center for Experimental Biome-  
dicine, University of Wuerzburg  
Wuerzburg, Germany

### **Thilo Stehle**

Group Leader, Vice Dean for Research

Interfaculty Institute of Biochemistry, University of Tuebingen  
Tuebingen, Germany

### **Guido Stoll**

Deputy Hospital Director

Department of Neurology, University Hospital Würzburg  
Wuerzburg, Germany

### **Sebastian Vogel**

Group leader

Department of Perioperative Medicine, Pediatric Anesthesiology and  
Critical Care Section, National Institutes of Health Clinical Center, NIH  
Bethesda, MD, USA

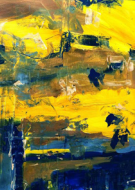
### **Lars Zender**

Medical director of the department of Internal Medicine VIII – Medical  
Oncology and Pulmonology  
University Hospital Tuebingen, Eberhard Karls University Tuebingen  
Tuebingen, Germany

### **Ulf Ziemann**

Medical director

Department of Neurology & Stroke, and Hertie-Institute for Clinical  
Brain Research, Eberhard-Karls University of Tübingen  
Tuebingen, Germany



## General Informations

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### Scientific supervision / organization

Prof. Dr. med. Meinrad Gawaz

Ärztlicher Direktor und Ordinarius Innere Medizin III, Kardiologie und Kreislauferkrankungen

Universitätsklinikum Tübingen

Otfried-Müller-Str. 10, 72076 Tübingen

### Scientific coordination / conference office

Dr. sc. hum. Tatsiana Castor

Innere Medizin III, Kardiologie und Kreislauferkrankungen

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Building 500; first floor; Room

### Venue

University Hospital Tuebingen

**Conference Center**

Otfried-Müller-Str. 6

72076 Tübingen

Building 520; first floor; Room



## General Informations

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### Directions to conference venue

#### by airplane

The Airport Stuttgart (STR) is approximately 35 km away from Tuebingen, which can be reached within 30 min via the B 27 by car. The bus line 828 commutes several times a day between the airport and Tuebingen main station.

Tuebingen can be reached from Frankfurt Airport (FRA) via a connecting flight to Airport Stuttgart or by train. Intercity Express trains (ICE) are connecting Tuebingen main station with Frankfurt Airport within two and a half hours.

#### by train

Tuebingen main station is well connected with Stuttgart main station, which can be reached within 1 hour and offers fast connection to all major German cities.

#### by public transport

Several bus lines are connecting the bus terminal at the Tuebingen main station (platform F) and Tuebingen city center to the University Hospital Campus 'Uni-Kliniken Berg'.

**bus station:** Klinik Berg

**bus lines:** 5, 13, 17, 18, 19, X15, N93 & N94

#### by car

The parking garages P4 and P5 are in the immediate vicinity to the conference venue (building 520) at the Campus Uni-Kliniken Berg.

From Stuttgart you can reach Tuebingen via the Autobahn A8. Leave the A8 at junction 52 Tübingen / Reutlingen. From there you are led onto the B 27 to Tuebingen. Use the second exit Tuebingen Nord, Kliniken, Kunsthalle. Follow the signalposts Zentrum, Uni-Kliniken Berg. Turn right at the JET gas station onto the Nordring. You will reach Kliniken Berg after 5 km.

