

24th - 26th October 2019 University Tübingen

> Conference Center Otfried-Müller-Str. 6 72076 Tuebingen





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)





Program

Thursday, 24th October 2019

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

Friday, 25th October 2019

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

Saturday, 26th October 2019

09:00 - 10:20 10:50 - 12:30	Session VIII Platelet in neuronal & myocardial diseases Session IX
10.00 12.00	Immunodefense
12:30 - 15:00	Closing of the Symposium

10:50



3rd Symposium Platelets

Thursday, 24th October 2019

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	CK2β is a critical regulator of thrombopoiesis and Ca²+-triggered platelet activation in arterial thrombosis Oliver Borst, Tuebingen
09:20	SICM and live imaging of single platelets Tilmann 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

11:10 Role of cGMP in regulation of platelet function Robert Feil, Tuebingen

cardiovascular patients
Tobias Geisler, Tuebingen

Value of platelet polymorphisms as risk predictor in



Thursday, 24th October 2019

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

12:00 Lunch Break

17:30

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
	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, Wuerzbug

Get together and poster session

10:50



3rd Symposium Platelets

Friday, 25th October 2019

09:00 Novel techniques to study platelet morphology and function Robert Feil, Tuebingen Chairs: TBA Novel approaches to study platelet production 09:00 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

10:20 - 10:50 Coffee Break

Katrin Heinze, Wuerzburg

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



Friday, 25th October 2019

13:00 Thrombo-Inflammation Chairs: Klaus Lev, La Jolla Peter Rosenberger, Tuebingen 13:00 Immunity and Inflammation in Atherosclerosis Klaus Lev. 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 & Christroph Bode

17:30 - 18:30

Hugo A. Katus

"Major achievements to control acute coronary syndrome: Troponin"

18:30 - 19:00

Robert Storey "DAPT"

Get together 19:30



Saturday, 26th October 2019

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
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 GPlb α 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



Chairs & Speakers

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



Chairs & Speakers

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 University 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



Chairs & Speakers

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



Chairs & Speakers

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



Chairs & Speakers

Peter Seizer

Group leader

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David Stegner

Group leader

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Rudolf Virchow Center, DFG Research Center for Experimental Biomedicine, University of Wuerzburg

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Thilo Stehle

Group Leader, Vice Dean for Research Interfaculty Institute of Biochemistry, University of Tuebingen Tuebingen, Germany

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Sebastian Vogel

Group leader

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Lars Zender

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Ulf Ziemann

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



General Informations

Scientific supervision / organization

Prof. Dr. med. Meinrad Gawaz

Ärztlicher Direktor und Ordinarius Innere Medizin III, Kardiolo-

gie und Kreislauferkrankungen Universitätsklinikum Tübingen

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Scientific coordination / conference office

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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

Directions to conference venue

by airplane

The Airport Stuttgart (STR) is approximatly 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 whithin two and a half hours.

by train

Tuebingen main station is well connected with Stuttgart main stain, 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 mains 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 let onto the B 27 to Tuebingen. Use the second exit Tuebingen Nord, Kliniken, Kunsthalle. Follow the signalpostings Zentrum, Uni-Kliniken Berg. Turn right at the JET gas station onto the Nordring. You will reach Kliniken Berg after 5 km.

