

CONFIRMED SYMPOSIA (as per 31 May, 2016)

S1 *"Trends and Advances in Clinical Hemorheology - a tribute to Oguz Baskurt"*

- Seminal contributions of Oguz Baskurt to hemorheology - a personal view - Jean-Frédéric Brun, FR
- Red cell aggregation - does it matter in the microcirculation? - Walter Reinhart, CH
- Electrorheological method for the study of the rheological and electrical properties of the blood - Nadia Antonova, BG

Chairperson(s): Jean-Frédéric Brun, France

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S2 *"Vascular Wall Microenvironments - Impact on Vessel Function"*

- Extracellular Matrix Structure in Small Arteries: Significance of Postnatal Structural Development to Vessel Function - Michael Hill, US
- Dynamic Vascular Smooth Muscle Cell Behavior Evident in Cell-Extracellular Matrix and Cell-Cell Interactions - Gerald Meininger, US
- Cell-Cell Coupling and the Microvascular Function - Kim Dora, UK
- Novel targets in treating the microcirculation in obesity - David Stepp, US

Chairperson(s): Gerald Meininger, United States of America

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S3 *"Disorders of Erythrocyte: Its Genetic Variation and Cardiovascular Risk"*

- Novel Role of Protein Disulfide Isomerase in the Hematological Complications of Sickle Cell Disease - José Romero, US
- Hemorheological alterations in sickle cell anemia and their clinical consequences - the role of genetic modulators - Marisa Silva, PT
- Sickle Cell Disease a Model of Cardiovascular Risk and New Therapeutic Targets - Manuel Bicho, PT

Chairperson(s): Manuel Bicho, Portugal

Co-chair(s): Paula Faustino, Portugal

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S4 *"Inflammation: affecting hemorheology and vasomotor regulation"*

- Platelet aggregation inhibition: Hemorheological aspects - Katalin Koltai, HU
Inflammation-induced microvascular dysfunction in obesity - a translational approach - Eliete Bouskela, BR
- Inflammation: affecting hemorheology and vasomotor regulation - Erik Svensjo, HU
- Impact of diet on microvascular function and proinflammatory metabolites of arachidonic acid – Ines Drenjančević, HR

Chairperson(s): Ines Drenjančević, Croatia

Co-chair(s): Eliete Bouskela, Brazil



S5 "Hemorheological and Microvascular Manifestations of Solid Nonmyeloid Malignancies"

- Interrelation of blood coagulation and hemorheology in cancer - Irina Tikhomirova, RU
- Surgery effect on hemorheological profiles in patients with colon cancer - Yulia Malyshev, RU
- Hemorheological profile changes after chemotherapy: insight into the microrheological change mechanisms - Alexei Muravyov, RU
- Role of hemorheological factors in the control of microcirculation in anemic patients with solid cancer - Nikolay Kislov, RU

Chairperson(s): Irina Tikhomirova, Russia

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S6 "Hemorheological Alterations in Hematological Diseases"

- Hemorheological behavior in sickle cell disease pediatric patients – Donatella Venturelli, IT
- Hemorheological profiles in thalassemia: a new approach for the study of complications - Patrizia Caprari, IT
- Hemorheological pattern in disorders of plasma composition - Gregorio Caimi, IT

Chairperson(s): Gregorio Caimi, Italy | Carlota Saldanha, Portugal

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S7 "Studying the Microcirculatory Effects of Exercise in Clinical Populations"

- Exploring the role of exercise in conjunction with compression therapy in patients with venous ulcers: initial observations on a feasibility study - Markos Klonizakis, UK
- Assessing the evidence: exploring the effects of exercise in diabetic microcirculation - Helena Lenasi, SI

Chairperson(s): Markos Klonizakis, United Kingdom | Helena Lenasi, Slovenia

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**S8 "4th International MiDAS Microcirculation Meeting:
"Microcirculation as target in clinical medicine"**

- Microcirculation in septic shock – a feasible target? - Vladimir Cerny, CH
- Is a Perfused Boundary Region right parameter for endothelial glycocalyx description? - David Astapenko, CH
- Microcirculation of the eye – non-invasive window to the microcirculation in acute and chronic disease - Christian Lehmann, CA
- Microcirculatory studies in pregnant women - a useful tool for early detection of pregnancy-related complications? – Ronald B. George, CA
- Microcirculatory studies in developing countries – first results of the MicroScreen study - Nivin Sharawi, EG

Chairperson(s): Vladimir Cerny, Czech Republic

Co-chair(s): Christian Lehmann, Canada | Dragan Pavlovic, France



**S9 "German Society for Clinical Microcirculation and Hemorheology
Session: Experimental Microcirculation"**

- Effect of radiographic contrast media on renal perfusion: first results - Phillip Lamby, DE
- The influence of different rewetting procedures on the thrombogenicity of nanoporous poly(ether imide) microparticles - Steffen Braune, DE
- Cellular interactions during vascularization of human three-dimensional skin constructs - Johanna Plendl, DE
- Blood rheology during normal pregnancy - results of a single center investigation - Georg Friedrich von Tempelhoff, DE
- Cell layer formation and shear-resistance of human endothelial cells on LDI - crosslinked gelatin-based hydrogels with tailorable elastic properties - Christian Schulz, DE
- Blood-derived angiogenic cells (BDACs) resemble a hematopoietic pericyte population and are a promising candidate for therapeutic angiogenesis - Anna Blocki, DE
- **OC35** Dendritic cell responses towards clinically used polydimethylsiloxane and polytetrafluoroethylene - Toralf Roch, DE

Chairperson(s): Tommaso Gori, Germany | Steffen Braune, Germany

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S10 "Hemorheological Studies in Clinical Medicine"

- Hemorheological disturbances in chronic carotid artery stenosis - Kinga Totsimon, HU
- Ambulatory and home-based exercise training program in female patients with high cardiovascular risk - Dora Praksck, HU
- The hemorheological effects of cardiovascular rehabilitation training program in ischemic heart disease – an analysis of prospective studies - Andras Toth, HU
- Hemorheological factors can be informative in comparing treatment possibilities of abdominal compartment syndrome - Norbert Nemeth, HU
- Hemorheological and angiological differences in diabetic patients with and without intermittent claudication - Gabor Kesmarky, HU
- The rate of complete and partial venous recanalisation by optimal and non optimal oral anticoagulant therapy - Sándor Iván Bernát, HU

Chairperson(s): Gabor Kesmarky, Hungary | Norbert Nemeth, Hungary

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S11 "Red Blood Cell Nitric Oxide and Red Blood Cell Rheology"

- Physiological role of erythrocyte nitric oxide - Carlota Saldanha, PT
- RBC-NOS dependent NO production during RBC aging in healthy volunteers and type 2 diabetic patients - Marijke Grau, DE
- Interactions between oxidative stress and RBC-NOS - Michael Simmonds, AU
- RBC-NOS and RBC deformability in sickle cell disease - Philippe Connes, FR
- Red blood cell nitric oxide and sickle cell anemia - potential and pitfalls - Jon Detterich, US

Chairperson(s): Michael Simmonds, Australia | Philippe Connes, France

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**S12 "German Society for Clinical Microcirculation and Hemorheology
Session: Clinical Microcirculation"**

- Microcirculation of vascular malformations using contrast-enhanced ultrasound (CEUS) and time intensity curve (TIC) analyses - Wiesinger I, DE
- Shear wave elastography of the testis in the healthy man – comparison of standard values using ARFI and VTIQ techniques- Julian Marcon, DE
- Differences of standard values of Supersonic shear imaging and ARFI technique – in-vivo study of testicular tissue - Julian Marcon, DE
- Possibilities of contrast- enhanced ultrasound (CEUS) after percutaneous treatments of malignant liver lesions with perfusion software - Ernest Michael Jung, DE
- Characterization of Benign Periablational Enhancement Following Multipolar Radiofrequency Ablation Using Perfusion CT in an In-Vivo Porcine Liver Model - Stefan Niehues, DE
- Intravital microscopy to study pancreatic inflammation in type 1 diabetes - Christian Lehmann, DE

Chairperson(s): Christian Lehmann, Canada | Lukas Prantl, Germany

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S13 "Microcirculation, Hemorheological Profile and Inflammation in Metabolic Diseases"

- Oscillations in cutaneous blood flow in hyperglycemic obese patients - Antonio Colantuoni, IT
- Blood viscosity in subjects with normoglycemia and prediabetes - Agostino Gnasso, IT
- Metabolic syndrome: inflammation and hemorheology - Rosalia Lo Presti, IT

Chairperson(s): Carlota Saldanha, Portugal | Antonio Colantuoni, Italy

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S14 Korea-Russia Joint Symposium

“Critical Shear Stress of RBC aggregation and disaggregation”

- Study of platelet-activation and - aggregation with stirrer-induced shear generation
- Sehyun Shin, KR
- Can Critical shear stress (CSS) be an all-round player? Correlation with yield stress and RBC deformability - Byoung Kwon Lee, KR
- Characterization of shear stress preventing red blood cells aggregation at the individual cell level and in whole blood samples - Kisung Lee, RU
- Effect of platelet activation on disaggregating shear stress in red blood cells aggregation
- Seawhan Choi, KR

Chairperson(s): Alexander Priezhev, Russia | Sehyun Shin, South Korea

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S15 ISCH/ISB Joint Symposium

“The microvascular behaviour of circulating cells”

- Adhesive behaviour of mesenchymal stem cells from flowing blood: implications for intravenous therapy - Gerard B. Nash, UK
- Red blood cell rheology and vascular dysfunction in sickle cell disease - Philippe Connes, FR
- The microvascular behaviour of malaria- and babesia-infected red blood cells - same pathophysiological endpoint but different molecular mechanisms - Brian M. Cooke, AU
- Inhibition of shedding of the endothelial glycocalyx and leukocyte adhesion with low molecular weight heparin - Herbert H. Lipowsky, Anne Lescanic & Rachna Sah, US

Chairperson(s): Sehyun Shin, Korea | Herbert H. Lipowski, United States of America

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CONFIRMED PLENARY LECTURES (as per 31 May, 2016)

L1 "Biological Evaluation of polymer-based Biomaterials"

Steffen Braune, Germany

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L2 "Relationship between viscosity and endothelial function"

Tommaso Gori, Germany

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L3 "Evidence-based Hemorheology: does it exists?"

António Vaz Carneiro, Portugal

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L4 "Autodigestion in Inflammation: Digestive Enzymes on the Prowl"

Geert Schmid-Schonbein, Germany

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L5 "The history of the theory of the circulation of the blood"

Michael Rampling, United Kingdom

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L6 "Hemorheological Parameters in Different Forms of Coronary Heart Disease"

Kalman Toth, Hungary

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L7 "Apocalypse Now? Challenge of Arterial Disease in the First Quarter of the Century"

Fernandes e Fernandes, Portugal

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L8 "The Optimum Hematocrit"

Walter Reinhart, Switzerland

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**L9 "Potentialities of Laser Trapping and Manipulation
of Blood Cells in Hemorheologic Research"**

Alexander Priezzhev, Russia

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**L10 "Endothelial Phenotypes, Shear Rate and Dyslipidemia: A Continuum to
Atherosclerosis"**

Pedro Marques Silva, Portugal

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**L11 "Atherosclerosis: challenges in understanding
the pathogenesis through a mathematical modelling approach"**

Adélia Sequeira, Portugal

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L12 "Endothelial cell dynamics in vessel regression"

Cláudio Areias Franco, Portugal

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L13 "Regulation of endothelial recruitment of leukocytes by the local environment"

Gerard Nash, United Kingdom

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