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

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

**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

**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 Drenjančevi, HR

Chairperson(s): Ines Drenjančevi, 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

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

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

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

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
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

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

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
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 Priezzhev, Russia | Sehyun Shin, South Korea

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
CONFIRMED PLENARY LECTURES (as per 31 May, 2016)

L1 "Biological Evaluation of polymer-based Biomaterials"
   Steffen Braune, Germany

L2 "Relationship between viscosity and endothelial function"
   Tommaso Gori, Germany

L3 "Evidence-based Hemorheology: does it exists?"
   António Vaz Carneiro, Portugal

L4 "Autodigestion in Inflammation: Digestive Enzymes on the Prowl"
   Geert Schmid-Schonbein, Germany

L5 "The history of the theory of the circulation of the blood"
   Michael Rampling, United Kingdom

L6 "Hemorheological Parameters in Different Forms of Coronary Heart Disease"
   Kalman Toth, Hungary

L7 “Apocalypse Now? Challenge of Arterial Disease in the First Quarter of the Century”
   Fernandes e Fernandes, Portugal
L8 "The Optimum Hematocrit"
Walter Reinhart, Switzerland

L9 "Potentialities of Laser Trapping and Manipulation of Blood Cells in Hemorheologic Research"
Alexander Priezzhev, Russia

L10 "Endothelial Phenotypes, Shear Rate and Dyslipidemia: A Continuum to Atherosclerosis"
Pedro Marques Silva, Portugal

L11 "Atherosclerosis: challenges in understanding the pathogenesis through a mathematical modelling approach"
Adélia Sequeira, Portugal

L12 "Endothelial cell dynamics in vessel regression"
Cláudio Areias Franco, Portugal

L13 "Regulation of endothelial recruitment of leukocytes by the local environment"
Gerard Nash, United Kingdom