

18th Conference of the European Society for Clinical Hemorheology and Microcirculation

5-8 June 2016 | LISBOA | PORTUGAL
Faculty of Medicine, University of Lisbon
Edifício Egas Moniz



Programme Overview (as per 14 April, 2016)

Sunday, 5 June		Foyer		
16:00 - 16:45		Opening Ceremony		
16:45 - 18:00		S1 "Trends and Advances in Clinical Hemorheology - a tribute to Oguz Baskurt" Chairperson(s): Jean-Frédéric Brun, <i>France</i> 1) "Red cell aggregation - does it matter in the microvasculature" - Walter Reinhart, <i>CH</i> 2) "Electrorheological method and mechanical properties of blood" - Nadia Antonova, <i>BG</i>		
18:00 - 18:15		Coffee-break		
18:15 - 18:45		L1 "Biological Evaluation of polymer-based Biomaterials" Chairperson(s): Friedrich Jung, <i>Germany</i>		
18:45 - 19:15		Baskurt Travel Award		
19:15 - 20:00		Chairperson(s): Friedrich Jung, <i>Germany</i>	Welcome Reception	
Monday, 6 June		Foyer		
08:30 - 09:15	L2 "Stem Cell and Vascular Regenerative Medicine" Chairperson(s): Jean François Stoltz, <i>France</i>			
09:15 - 10:00	L3 "Evidence-based Hemorheology: does it exist?" Chairperson(s): António Vaz Carneiro, <i>Portugal</i>			
10:00 - 10:30		Coffee-break		
10:30 - 12:00	S2 "Vascular Wall Microenvironments - Impact on Vessel Function" Chairperson(s): Gerald Meininger, <i>United States of America</i> 1) "Extracellular Matrix Structure in Small Arteries: Significance of Postnatal Structural Development to Vessel Function" - Michael Hill, <i>US</i> 2) "Cell interactions with the Extracellular Matrix Microenvironment" - Gerald Meininger, <i>US</i> 3) "Cell-Cell Coupling and the Microvascular Function" - Kim Dora, <i>UK</i> 4) "Novel targets in treating the microcirculation in obesity" - David Stepp, <i>US</i>	S3 "Disorders of Erythrocyte: Its Genetic Variation and Cardiovascular Risk" Chairperson(s): Manuel Bicho, <i>Portugal</i> Co-chair: Paula Faustino, <i>Portugal</i> 1) "Novel Role of Protein Disulfide Isomerase in the Hematological Complications of Sickle Cell Disease" - José Romero, <i>US</i> 2) "Hemorheological alterations in sickle cell disease and their clinical consequences" - Marisa Silva, <i>PT</i> 3) "Sickle Cell Disease a Model of Cardiovascular Risk and New Therapeutic Targets" - Manuel Bicho, <i>PT</i>	S4 Reserved Chairperson(s): TBC	
	12:00 - 12:45	L4 "Autodigestion in Inflammation: Digestive Enzymes on the Prowl" Chairperson(s): Geert Schmid-Schonbein, <i>Germany</i>		
	12:45 - 14:00	Lunch-break		
	14:00 - 14:45	L5 "The history of the theory of the circulation of the blood" Chairperson(s): Michael Rampling, <i>United Kingdom</i>		
14:45 - 16:00	S5 "Hemorheological and Microvascular Manifestations of Solid Nonmyeloid Malignancies" Chairperson(s): Alexei Muravyov, <i>Russia</i> 1) "Interrelation of blood coagulation and hemorheology in cancer" - Irina Tikhomirova, <i>RU</i> 2) "Surgery effect on hemorheological profiles in patients with colon cancer" - Yulia Malyshev, <i>RU</i> 3) "Hemorheological profile alterations after chemotherapy: insight into the microrheological change mechanisms" - Nikolay Kislov, <i>RU</i> 4) "Role of hemorheological factors in the control mechanisms of the tissue microvascular perfusion in anemic patients with solid cancer" - Anna Akhapiin, <i>RU</i>	S6 "Hemorheological Alterations in Hematological Diseases" Chairperson(s): Gregorio Caimi, <i>Italy</i> Carlota Saldanha, <i>Portugal</i> 1) "Hemorheological behavior in sickle cell disease pediatric patients" - Donatella Venturelli, <i>IT</i> 2) "Hemorheological profiles in thalassemia: a new approach for the study of complications" - Patrizia Caprari, <i>IT</i> 3) "Hemorheological pattern in disorders of plasma composition" - Gregorio Caimi, <i>IT</i>	F1 Free Communications	
	16:00 - 16:30	Coffee-break		
	16:30 - 17:15	L6 "Hemorheological Parameters in Different Forms of Coronary Heart Disease" Chairperson(s): Kalman Toth, <i>Hungary</i>		
	17:15 - 18:00		Clinical Hemorheology and Microcirculation Editorial Board Meeting	Poster Session

EXHIBITION
Poster's Display
Coffee-break
Lunch-break

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Tuesday, 7 June		
09:00 - 09:45	L7 "Apocalypse Now? Challenge of Arterial Disease in the First Quarter of the Century" Chairperson(s): Fernandes e Fernandes, Portugal	
09:45 - 10:15	Coffee-break	
10:15 - 12:00	S7 "4th International MiDAS Microcirculation Meeting: "Microcirculation as target in clinical medicine" Chairperson(s): Vladimir Cerny, Czech Republic Co-chair(s): Christian Lehmann, Canada Dragan Pavlovic, France	S8 "German Society for Clinical Microcirculation and Hemorheology - PART I" Chairperson(s): Lukas Prantl, Germany Co-chair: Tommaso Gori, Germany
	1) "Microcirculation in septic shock – a feasible target?" - Vladimir Cerny, CH	1) "Relationship between viscosity and endothelial function" - Tommaso Gori, DE
	2) "Is a Perfused Boundary Region right parameter for endothelial glycocalyx description?" – David Astapenko, CH	2) "Contrast Enhanced Ultrasound (CEUS) of vascular malformations: New imaging tool for characterization the dynamic effects of micro vascularization using perfusion imaging" Wiesinger I, Wolgemuth W, Teusch V, Michael Jung, Lukas Prantl
	3) "Microcirculation of the eye – non-invasive window to the microcirculation in acute and chronic disease" - Christian Lehmann, CA	3) "Shear wave elastography of the testis in the healthy man – comparison of standard values using ARFI and VTIQ techniques" - Julian Marcon, DE
	Symposium break (10 min)	4) "Differences of standard values of Supersonic shear imaging and ARFI technique – in-vivo study of testicular tissue" - Julian Marcon, DE
	4) "Microcirculatory studies in pregnant women - a useful tool for early detection of pregnancy-related complications?" - Ronald B. George, CA	5) "New imaging methods using CEUS for interventional procedures of liver tumors" - Ernst Michael Jung, DE
	5) "Microcirculatory studies in developing countries – first results of the MicroScreen study" - Nivin Sharawi, EG	6) "Rim perfusion in thermoablation procedures: A physiologic antagonist?" - Stefan Niehue, DE
12:00 - 12:45	L8 "The Optimum Hematocrit" Chairperson(s): Walter Reinhart, Switzerland	
12:45 - 14:00	Lunch-break	
14:00 - 14:45	L9 "Potentialities of Laser Trapping and Manipulation of Blood Cells in Hemorheologic Research" Chairperson(s): Alexander Priezzhev, Russia	
14:45 - 16:30	S10 "Red Blood Cell Nitric Oxide and Red Blood Cell Rheology" Chairperson(s): Michael Simmonds, Australia Philippe Connes, France	S11 "German Society for Clinical Microcirculation and Hemorheology - PART II" Chairperson(s): Christian Lehmann, Canada Co-chair: Friedrich Jung, Germany
	1) "Physiological role of erythrocyte nitric oxide" - Carlota Saldanha, PT	1) "Influence of radiographic contrast media on the kidney perfusion" - Ernst Michael Jung, DE
	2) "RBC-NOS dependent NO production during RBC aging in healthy volunteers and type 2 diabetes" - Marijke Grau, DE	2) The influence of different rewetting procedures on the thrombogenicity of nanoporous poly(ether imide) microparticles - S. Braune, DE
	3) "Interactions between oxidative stress and RBC NOS" - Michael Simmonds, AU	3) "Cellular interactions during vascularization of human three-dimensional skin constructs" - J. Plendl, DE
	Symposium break - 10 min-	4) "Intravital microscopy to study pancreatic inflammation in type 1 diabetes" - Christian Lehmann, CA
	4) "RBC-NOS and RBC deformability in sickle cell disease" - Philippe Connes, FR	5) "Geometry of microwells modulate IL-6 secretion of human adipose derived mesenchymal stem cells via ROCK signaling pathway" - Zhengdong Li, DE
	5) "Red blood cell nitric oxide and sickle cell anemia - potential and pitfalls" - Jon Deterich, US	6) "Cell layer formation and shear-resistance of human endothelial cells on gelatin-based hydrogels with tailorable elasticity" - Christian Schulz, DE
	7) "Not all pericytes are MSCs? - About the controversial origin of pericytes" - Anna Blocki, DE	
16:30 - 17:00	Coffee-break	
17:00 - 17:30	Joint meeting between ISCH & ISB and ESCHM	
19:30 - 22:30	Conference Dinner	

F2 Free Communications

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Wednesday, 8 June	
09:30 - 10:15	L10 "Endothelial Phenotypes, Shear Rate and Dyslipidemia: A Continuum to Atherosclerosis" Chairperson(s): Pedro Marques Silva, Portugal
09:45 - 10:15	Coffee-break
10:15 - 12:00	S12 "Microcirculation, Hemorheological Profile and Inflammation in Metabolic Diseases" Chairperson(s): Carlota Saldanha, Portugal Antonio Colantuoni, Italy 1) "Oscillations in cutaneous blood flow in hyperglycemic obese patients" - Antonio Colantuoni, IT 2) "Microcirculatory dysfunction in obesity: effect of gastric bypass surgery" - Marco Rossi, IT 3) "Blood and plasma viscosity in subjects with prediabetes and diabetes" - Agostino Gnasso, IT 4) "Metabolic syndrome: inflammation and hemorheology" - Rosalia Lo Presti, IT
	S13 "Studying the Microcirculatory Effects of Exercise in Clinical Populations" Chairperson(s): Markos Klonizakis, United Kingdom Helena Lenasi, Slovenia 1) "Exploring the Role of Exercise in Conjunction with Compression Therapy in Patients with Venous Ulcers: Initial Observations on a Feasibility Study" - Markos Klonizakis, UK 2) "Comparing the effect of exercise training and weight loss on microvascular function in coronary artery disease" - Rasmus Olsen, DK 3) "Assessing the evidence: exploring the effects of exercise in diabetic microcirculation" - Helena Lenasi, SI
	S14 "Korea-Russia Joint Symposium: Critical Shear Stress of RBC aggregation and disaggregation" Chairperson(s): Alexander Priezhev, Russia Sehyun Shin, South Korea 1) "Study of platelet-activation and -aggregation with stirrer-induced shear generation" - Sehyun Shin, KR 2) "Can Critical shear stress (CSS) be an all-round player? Correlation with yield stress and RBC deformability" - Byoung Kwon Lee, KR 3) "Characterization of shear stress preventing red blood cells aggregation at the individual cell level and in whole blood samples" - Kisung Lee, Russia, RU 4) "Effect of platelet activation on disaggregating shear stress in red blood cells aggregation" - Hoyoon Lee, KR
	L11 "Atherosclerosis: challenges in understanding the pathogenesis through a mathematical modelling approach" Chairperson(s): Adélia Sequeira, Portugal
12:00 - 12:45	
12:45 - 14:00	Lunch-break
14:00 - 14:45	L12 "Endothelial cell dynamics in vessel regression" Chairperson(s): Cláudio Areias Franco, Portugal
14:45 - 15:45	S15 ISCH/ISB Joint Symposium "The microvascular behaviour of circulating cells" Chairperson(s): Sehyun Shin, Korea Herbert H. Lipowski, United States of America 1) "Adhesive behaviour of mesenchymal stem cells from flowing blood: implications for intravenous therapy" - Gerard B. Nash, UK 2) "Red blood cell rheology and vascular dysfunction in sickle cell disease" - Philippe Conne, FR 3) "The microvascular behaviour of malaria- and babesia-infected red blood cells – same pathophysiological endpoint but different molecular mechanisms" - Brian M. Cooke, AU 4) "Inhibition of shedding of the endothelial glycocalyx and leukocyte adhesion with low molecular weight heparin" - Herbert H. Lipowsky, US
	S16 "Inflammation: affecting hemorheology and vasomotor regulation" Chairperson(s): Ines Drenjancevic Hungary Kalman Toth, Hungary 1) "Platelet aggregation inhibition: Hemorheological aspects" - Katalin Koltai, HU 2) "Inflammation-induced microvascular dysfunction in obesity - a translational approach" - Eliete Bouskela, BR 3) "Inflammatory edema is enhanced by proteolytic activation of the mast cell/kallikrein-kinin pathway affecting vascular function" - Erik Svensio, HU 4) "Regulation of venular tone in HHcy-induced inflammation" - tbc 5) "Impact of diet on microvascular function and proinflammatory metabolites of arachidonic acid" - Ines Drenjancevic, HU
15:45 - 16:15	Coffee-break
16:15 - 17:00	L13 "Regulation of Endothelial Recruitment of Leukocytes by the Local Environment" Chairperson(s): Gerard Nash, United Kingdom
17:00 - 17:15	Fahraeus Award Ceremony
17:15 - 17:30	Closing remarks