Dear Colleagues and Friends,

it is our great pleasure to welcome you to the 16th International Conference of the European Society for Clinical Hemorheology and Microcirculation (ESCHM) and the 30th annual conference of the German Society for Clinical Microcirculation and Hemorheology (DGKMH) being held as a joint meeting scheduled to take place from June 18th – 21st 2011 in Munich, Germany.

As president of the conference I am pleased to welcome the working groups of ESCHM/DGKMH, the members of the advisory committee as well as non-european scholars in the field of clinical hemorheology and of microcirculation to participate in the conference by sending in proposals for topics, lectures, symposia, oral communications and posters. This is the fourth time that Germany will be hosting the International Conference of the European Society for Clinical Hemorheology and Microcirculation (ESCHM). The first one was organized by Holger Schmid-Schönbein in Baden-Baden, the second one by Albrecht Ehrly in Frankfurt, and the third one by Friedrich Jung in Dresden. Our aim is to tie in with the successes of the previous meetings. We hope that our current scientific program will present an overview of the actual developments in clinical hemorheology and microcirculation and pave the ground for fruitful interdisciplinary discussions. We hope that you will not only enjoy the scientific program, but also the social part of the meeting and the ambience of the beautiful city of Munich. During the conference, an award ceremony will be held for the Fåhraeus Medal, which is assigned according to the rules stated in the constitution of the society in recognition of scientific excellence in the field. I am honoured to be able to welcome such distinguished scientists in Munich, Germany.

Priv.-Doz. Dr. med. Dirk André Clevert, President of the 16th Conference of the ESCHM
Prof. Dr. Nadia Antonova, President of the European Society for Clinical Hemorheology and Microcirculation
Prof. Dr. Friedrich Jung, Past-President of the European Society for Clinical Hemorheology and Microcirculation
Prof. Sandro Forconi, Honorary President of the European Society for Clinical Hemorheology and Microcirculation
President of the Conference

Priv.-Doz. Dr. med. Dirk André Clevert
Department of Clinical Radiology
Ludwig-Maximilians University, Klinikum München-Großhadern
Marchioninistraße 15, 81377 Munich, Germany

Scientific Secretary

Dr. med. Andreas Helck
Department of Clinical Radiology
Marchioninistraße 15, 81377 Munich, Germany

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Prof. B. Sandhagen, Uppsala, Sweden
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Prof. K. Toth, Pecs, Hungary
Dra. A. Vayá, Valencia, Spain
Prof. J.-L. Wauiller, Paris, France
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<td>Rheological Flow Studies in the Cardiovascular System: Diagnostic and Therapeutic Applications</td>
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Scientific Program

Saturday, June 18th 2011

16.00 - 20.00 Registration at the Conference Center
18.00 Informal welcome reception at the Conference Center

Sunday, June 19th 2011

08.30 - 09.00 Opening Ceremony Room Kopernikus II+III

Reiser M Dean of the Medical Faculty of the University München
Clevert DA President of the Conference
Antonova N President of the European Society for Clinical Hemorheology and Microcirculation
Sunday, June 19th 2011

09.00 - 10.30  Room Kopernikus II+III

Symposium S1:

Ultrasound and Microcirculation I

Organized by the German Society for Clinical Microcirculation and Hemorheology

Chairpersons:  Clevert DA, Stroszczynski C (München, Regensburg, Germany)

Agha A, Jung EM, Schlitt HJ, Hornung M (Regensburg, Germany)

High resolution linear contrast enhanced ultrasound (CEUS) for evaluation of microcirculation of parathyroid adenomas in correlation to the operative findings

Schreyer AG, Friedrich C, Jung EM (Regensburg, Germany)

Transmural Penetration of Intravenously Applied Microbubbles During Contrast Enhanced Ultrasound as a New Diagnostic Feature in Patients with GVHD of the Bowel

Clevert DA, Helck A, Sommer W, Reiser M (München, Germany)

Contrast enhanced ultrasound in the detection of internal carotid artery pseudoocclusion

Wiggermann P, Schneider J, Stroszczynski C, Jung EM (Regensburg, Germany)

Innovations in High Resolution Ultrasound - Contrast-Enhanced Ultrasound with Image Fusion improves real-time imaging of ablation region during and after radiofrequency ablation: Preliminary Results.

Rennert J, Georgova M, Jung W, Stroszczynski C, Jung EM (Regensburg, Germany)

Image fusion of contrast enhanced ultrasound (CEUS) with CT or MRI using volume navigation (Vnav) for evaluation of microcirculation of liver tumors and planning of therapeutic interventions.

D’Anastasi M, Schneevoigt B, Trottmann M, Clevert DA (München, Germany)

Acoustic radiation force impulse imaging of the testis: preliminary experience
Symposium S2:
Rheology and Hemostasis I
Chairpersons: Saldanha C, Bauersachs R (Lisboa, Portugal, Darmstadt, Germany)
Wenzel F, Gettmann T, Zimmermann N, Giers G (Düsseldorf, Germany)

Coronary Artery Bypass Grafting (CABG) effects perioperatively Serum Erythropoietin and Thrombopoietin Levels
Bauersachs R (Darmstadt, Germany)

NOACs - New oral Anticoagulants: Promises and Challenges
Pindur G (Homburg/Saar, Germany)

Alterations of haemostasis and haemorheology after venous thromboembolism
Saldanha C (Lisboa, Portugal)

Red Blood Cell as a Link between Basic and Clinical Research
von Tempelhoff GF (Aschaffenburg, Germany)

The risk of thrombosis and arterial events during hormonal treatment for anticonception and menopause
Ionova VG, Varakin YY, Gornostaeva GV, Kostyrev AA, Shabalina AA, Tarchokova MF (Moscow, Russia)

RBC hemorheology in patients with chronic cerebrovascular pathology and major cerebral arteries atherosclerosis
Symposium S3:
Hemorheology in diagnostics of circulatory disorders
Organized by the Hungarian Society of Haemorheology (HSH)
Chairpersons: Bogar L, Toth K (Pecs, Hungary)

(Pecs, Hungary, Los Angeles, USA)

Gender differences in hemorheological parameters and in „in vitro” platelet aggregation in ASA and thienopyridine treated vascular patients


The influence of various coronary artery bypass grafting (CABG) methods on hemorheological parameters

Bernát SI, Schweitzer K, Rókusz L (Budapest, Hungary)

Increased aggregation of platelets in diabetes

Woth G, Tőkés-Fűzesi M, Magyarlaki T, Bogár L, Mühl D (Pecs, Hungary)

Microparticules in septic shock
11.00 - 11.45  Room Kopernikus II+III

Plenary Lecture I
Chairperson: Forconi S (Siena, Italy)

Intaglietta M (La Jolla, USA)

Non-linear cardiovascular regulation consequent to changes in blood viscosity

13.00 - 14.30  Room Kopernikus II+III

Symposium S4:
Ultrasound and Microcirculation II

Chairpersons: Jung EM, Helck A (Regensburg, München, Germany)

Gehmert S, Kügler T, Prantl L, Jung EM (Regensburg, Germany)

Autologous Stem Cell application for tendon tissue repair

Clevert DA, Sommer W, Helck A, D' Anastasi M, Reiser M (München, Germany)

Ultrasound image fusion with CEUS and MS-CT in the follow up after EVAR


ARFI-based tissue elasticity quantification and kidney graft dysfunction: First clinical Experiences

Schreyer AG, Friedrich C, Jung EM (Regensburg, Germany)

Volume Navigation with Contrast Enhanced Ultrasound (CEUS) and image fusion with CT or MRT for percutaneous interventions: first results

Helck A, Notohamiprodjo M, Habicht A, Schönemarck U, Thieme S, Reiser M, Clevert DA (München, Germany)

Parametric imaging of renal transplants

Uller W, Gößmann H, Stroszcynski C, Jung EM (Regensburg, Germany)

Contrast-enhanced ultrasound for detection of microcirculation during TACE: advantage for a selective procedure?
Symposium S5:

Exercise Hemorheology

Organized by the International Society for Clinical Hemorheology (ISCH)

Chairpersons: Baskurt OK, Connes P (Antalya, Turkey, Guadeloupe, France)

Simmonds MJ, Tripette J, Sabapathy S, Marshall-Gradisnik SM, Connes P (Australia, Canada, France)

The influence of haemorheology on cardiovascular dynamics during the rest-work transition of exercise.

Baskurt OK, Meiselman HJ (Istanbul, Turkey, Los Angeles, USA)

Nitric oxide, Erythrocytes and Exercise

Ahmadizad S, Moradi A, Nikookheslat S, Ebrahimi H, Rahbaran A (Teheran, Iran)

Effects of age on hemorheological responses to acute endurance exercise

Muravyov A, Mikhailov P (Yaroslavl, Russia)

The correlations of physical performance with hemorheological and microvascular parameters.

Connes P, Waltz X, Balayssac-Syransy E, Bogui P, Hedreville M, Hardy-Dessources MD (Guadeloupe, Côte d’Ivoire, France)

Effects of moderate endurance exercises on blood rheology in sickle cell anemia

Aufradet E, De Souza G, Bessaad A, Campion Y, Bourgeaux V, Pialoux V, Canet-Soulas E, Martin C (Lyon, France)

Voluntary wheel running modulates hypoxia response of sickle cell disease SAD mice

Brun JF, Varlet-Marie E, Romain AJ (Montpellier, France)

Interrelationships among body composition, blood rheology and exercise performance
15.00 - 15.45  Room Kopernikus II+III
Plenary Lecture II
Chairperson: Antonova N (Sofia, Bulgaria)

Liepsch D
Rheological Flow Studies in the Cardiovascular System: Diagnostic and Therapeutic Applications.

16.00 - 17.30  Room Kopernikus II+III
Symposium S6:
Experimental Hemorheology and Microrcirculation
Chairpersons: Prantl L, Hiebl B (Regensburg, Halle, Germany)

Aydogan S, Artis AS, Akin MA, Günes T, Kurtoglu S (Kayseri, Turkey)

Changes of red blood cell mechanical properties in newborns with congenital Hypothyroidism

Russ M, Bedarf JR, Ott S, Keckel T, Hiebl B, Unger JK (Berlin, Halle, Germany)

Colloids as well as acidaemia can compromise extracorporeal membrane filters and their biocompatibility – results from experimental studies

Hiebl B, Matschke K, Mrowietz C, Jung F (Halle, Dresden, Teltow, Germany)

Influence of Systemic Normo- or Hypothermia on Myocardial Oxygen Tension during Extracorporeal Circulation of the Unloaded Beating Heart

Müller C, Hiebl B, Hünigen H, Plendl J, Niehues SM (Berlin, Halle, Germany)

Morphometry of the aortic arch and its major branches of the Göttingen minipig®

Suhr F, Grau M, Brenig K, Brixius K, Mester J, Bloch W (Köln, Germany)

Influences of physical exercise on the Nitric Oxide Synthase / Nitric Oxide pathway in Red Blood Cells and the Red Blood Cell deformability

Artis AS, Aydogan S, Basaran E, Baktır A, Dolu N, Suer C (Kayseri, Turkey)

The effects of acute and chronic cold stress on the mechanical properties of the erythrocytes in rats
16.00 - 17.30      Room Galilei

Symposium S7:
Endothelial Cells
Chairpersons:  Franke RP, Kuepper JH (Ulm, Senftenberg, Germany)

Cicha I, Urschel K, Beronov K, Daniel WG, Garlichs CD (Erlangen-Nuernberg, Germany)

Endothelium-monocyte interactions: Shear stress magnitude and gradient in the TNF-alpha-induced endothelial activation and monocytic cell recruitment

Franke RP, Fuhrmann R, Mrowietz C, Hiebl B, Jung F (Ulm, Teltow, Germany)

Do radiographic contrast media (Iodixanol or Iomeprol) induce a perturbation of human arterial and/or venous endothial cells in vitro on extracellular matrix?

Urschel K, Daniel WG, Garlichs CD, Cicha I (Erlangen-Nuernberg, Germany)

Inhibition of vascular endothelial growth factor receptor 2 increases endothelial resistance to inflammatory cytokines under chronic non-uniform shear stress

Landgraf H (Berlin, Germany)

Air travel and venous thrombosis

Mayer A, Kralz K, Cui J, Lendlein A, Jung F, Hiebl B (Teltow, Germany)

Interaction of primary CD14+ CD163+ VEGF-A165+ monocytes/macrophages with soft hydrophobic poly(n-butyl acrylate) networks with elastic moduli matched to human arteries

Gosau M, Meier JK, Moralis A, Liebsch G, Prantl L (Regensburg, Germany)

Simple, Fast and Reliable Flap Perfusion Monitoring

17.30 - 18.15      Room Galilei

Session A:

Bildfusion - ein neuer Weg der Diagnostik!
„Wie - wo - warum“
Monday, June 20th 2011

08.30 - 10.00  Room Kopernikus II+III

Symposium S8:
Aging and vasomotion in experimental models
Organized by the Italian Society

Chairpersons:  Caimi G, Landgraf H (Palermo, Italy, Berlin, Germany)

Lapi D, Sapi D, Mastantuono T, Colantuoni A (Napoli, Italy)

Aging and Microcirculation

Martini R (Padova, Italy)

Skin vasomotion in elderly subjects

Caprari P (Roma, Italy)

Haemorheological changes in cell aging

Tozzi Cianciarelli MG (L’Aquila, Italy)

Senescence and oxidative stress

Reinhart W, Schulzki T (Chur, Switzerland)

Metabolic depletion decreases the aggregability of erythrocytes
Symposium S9:
Rheological Disorders
Chairpersons: Vaya A, Pindur G (Valencia, Spain, Homburg/Saar, Germany)

Ruef P (Heidelberg, Germany)
Lipid A decreases human erythrocyte deformability by increasing intracellular Ca2+

Vaya A, Hernández-Mijares A, Sendra A, Bonet E, Corella D (Valencia, Spain)
Metabolic syndrome and rheological blood behaviour

Gehm L (Althengstedt, Germany)
Foundations of measurement of blood rheology

Fornal M, Korbut RA, Grodzicki T (Krakow, Poland)
Relevance of erythrocyte deformability to the glomerular filtration rate and concentration of soluble cell adhesion molecules in patients with untreated essential hypertension

Gehmert S, Prantl L (Regensburg, Germany)
Induction of Neoangiogenesis by stem cell application

Salazar Vázquez B (Durango, Mexico)
The relationship hematocrit/blood viscosity in a healthy young population adapted to 1,800m elevation
10.30 - 12.00  Room Kopernikus II+III

Fähraeus Ceremony
Chairperson: Rampling M (London, Great Britain)
Laudatio: Jung F (Teltow, Germany)
Fähraeus Lecture: Reinhart W (Chur, Switzerland)

13.00 - 14.45  Room Kopernikus II+III

Symposium S10:
Biomaterials in contact with blood and tissue cells
Chairperson: Lendlein A, Ambrosio L (Teltow, Germany, Naples, Italy)

Lendlein A (Teltow, Germany)
Multifunctional Polymers for Cardiovascular Implants

Ambrosio L (Naples, Italy)
Bioactive polymer based structure for tissue repair and regeneration

Falkenhagen D (Krems, Austria)
Suspension Technologies - a New Hope for Adsorption Therapy in Medicine

Glasmacher B (Hannover, Germany)
Vascular grafts: Biomaterials in contact with blood and cells.

Zöllnther-Momm D (Berlin, Germany)
Gene expression profiling for identification of cardiovascular candidate genes

Pool A (Twente, Netherland)
Tissue engineering of small-diameter blood vessels
30. Jahrestagung der DGKMH
Opening by Jünger M and Jung EM (Greifswald, Regensburg)

Symposium S11:
Clinical Hemorheology and Microcirculation
Organized by the German Society for Clinical Microcirculation and Hemorheology (in german language)
Chairpersons: Angelkort B, Sternitzky R (Dortmund, Dresden, Germany)

Contrast enhanced ultrasound and time intensity curve (TIC) analysis in compartment syndrome: first results
Niehues SM, Müller C, Unger J, Jung F, Hiebl B (Berlin, Teltow, Halle, Germany)

Influence of positioning on cervical vessels in minipigs
Kauder S, Schnabl S, Strölin A, Häfner HM (Tübingen, Germany)

Analysis of rhythmical behavior of tissue blood perfusion for calculating tumor borders in vivo
Angelkort B, Harlacher M, Schmid-Schönbein H (Aachen, Germany)

Blut-Fluidität bei geriatrischen Patienten - Eine Beurteilung anhand des Aachener Risikoprofils
Gehmert S, Gehmert S, Bai X, Ortmann O, Prantl L (Houston, USA, Regensburg, Germany)

Limitation of in vivo models investigating angiogenesis in breast cancer
Mrowietz C, Peuker A, Schunk WH, Blaschke F, Müller D, Lendlein A, Jung F (Teltow Berlin, Germany)

Influence of different Cytochrom-P450 Eicosanoids on the Ristocetin-induced platelet aggregation
15.00 - 15.45  Room Kopernikus II+III

Plenary Lecture III
Chairperson: Rampling M (London, Great Britain)

Gori T (Mainz, Germany)

Viscosity, platelet activation, and hematocrit: progress in understanding their relationship with clinical and subclinical vascular disease

16.00 - 17.30  Room Kopernikus II+III

Symposium S12:

Rheology and Microcirculation in cardiovascular disorders
Chairpersons: Gori T, Kessler U (Mainz, Germany, Bern, Switzerland)

Grotemeyer KC, Kaiser R, Lammert F, Elmas E (Homburg/Saar, Mannheim, Germany)

Decreased TSP-1 Levels in Patients after Myocardial Infarction and Stenting as a Risk Factor for Major Adverse Cardiac Events

Braune S, Hönow A, Mrowietz C, Cui J, Kratz K, Lendlein A, Jung F (Teltow, Germany)

Thrombogenicity of Poly(n-butylacrylat) networks

Kerdjoudj H, Stoltz J-F, Menu P (Nancy, France)

Use of polyelectrolyte films in vascular tissue engineering

Arnold A, Lutze S, Jünger M, Ladwig A, Bichel J, Schuren J (Greifswald, Neuss, Germany)

Macro- and microperfusion during application of a new compression system, designed for patients with leg ulcer and concomitant peripheral arterial occlusive disease

Kowal P, Marcinkowska-Gapińska A, Siemieniak I (Poznan, Poland)

Hemorheological and biochemical characteristics of a group of patients with clinically silent vascular cerebral lesions.

Gori T, Lisi M, Dragoni S, Laghi Pasini F, Parker JD (Mainz, Germany)

Chronic nitroglycerin, but not chronic pentaerythrityl tetranitrate, cause loss of preconditioning effects against ischemia and reperfusion injury
16.00 - 17.30       Room Galilei

Symposium S13:
Röntgenkontrastmittel

Organized by the German Society for Clinical Microcirculation and Hemorheology (in german language)

Chairpersons: Jung F, Franke RP (Teltow, Ulm, Germany)

Jung F (Teltow, Germany)

Einführung

Mrowietz C, Franke RP, Jung F (Teltow, Ulm, Germany)

Echinozytenbildung nach Röntgenkontrastmittelexposition

Pindur G, Mrowietz C, Spitzer S, Jung F (Homburg/Saar, Teltow, Dresden, Germany)

Einfluss von Röntgenkontrastmittel auf die Gerinnung bei intrakoronarer Applikation

Franke RP, Fuhrmann R, Hiebl B, Jung F (Ulm, Halle, Dresden, Germany)

Interaktion von Röntgenkontrastmitteln mit Endothelzellen

Knaut M, Mrowietz C, Matschke K, Jung F (Dresden, Teltow, Germany)

Röntgenkontrastmittel und myokardiale Mikrozirkulation

Gerk U (Dresden, Germany)

Einfluss von Röntgenkontrastmittel auf die kutane Mikrozirkulation bei koronarer Herzerkrankung

Wessely R (Duisburg, Germany)

Klinische Ergebnisse

Franke RP (Ulm, Germany)

Zusammenfassung

17.30 - 18.15       Room Galilei

Session B:

Die Zukunft des kontrastverstärkten Ultraschalls

Greis C, Konstanz, Germany

Philips, xMATRIX Technologie ein neuer Weg der kontrastverstärkten Leberherddiagnostik

Clevert DA, München, Germany
Tuesday, June 21st 2011

08.30 - 10.00  Room Kopernikus II+III

Symposium S14:
Transplantation and Microcirculation

Chairpersons: Horch E, Vogt PM, Steinsträßer L (Erlangen, Hannover, Bochum, Germany)

Greis C (Konstanz, Germany)

Demonstration and quantitative evaluation of microvascular blood flow by contrast-enhanced ultrasound (CEUS)

Sorg H (Hannover, Germany)

Mikrozirkulation bei der Hautneubildung

Lorenz S, Ninkovic M, Fichter AM, Stergioula S, Herter F, Domseifer U (München, Germany)

Impact of continuous controlled temperature application on microcirculatory parameters in free tissue transfer

Lechler P, Klein SM, Prantl L, Renkawitz T, Grifka J (Regensburg, Germany)

Hypoxic downregulation of cellular proliferation and dedifferentiation of human osteoblasts is mediated by HIF-1alpha

Jung EM, Prantl L (Regensburg, Germany)

CEUS Guidelines for Free Tissue Transplants

Pfeifer C, Jung EM, Prantl L (Regensburg, Germany)

Detection of bone microperfusion
Symposium S15:
Hot topics in Hemorheology and Microcirculation

Chairpersons: Forconi S, Bogar L (Siena, Italy; Pecs, Hungary)

Gori T, Forconi S (Siena, Italy)

Endothelium and hyperviscosity

Intaglietta M (San Diego, USA)

Increasing plasma viscosity and the beneficial effects of supra plasma expansion in transfusion medicine

Caimi G, Lo Presti R (Palermo, Italy)

Hemorheology in the metabolic syndrome

Rossi M (Pisa, Italy)

Obesity and microcirculation

Seringec N, Guncu G, Arihan O, Avcu N, Dikmenoglu N (Turkey)

Hemorheological parameters in periodontal diseases

Kessler U, Zachariou Z, Seller S, Klimek P, Slongo T (Bern, Switzerland)

Is there a correlation between preincisional fluid administration and blood loss in adolescent orthopaedic surgery?
10.30 - 11.15  
**Room Kopernikus II+III**

**Plenary Lecture IV**

Chairperson: Bogar L (Pecs, Hungary)

Toth K (Pecs, Hungary)

Hemorheological parameters in different forms of coronary disease

12.30 - 14.15  
**Room Kopernikus II+III**

**Symposium S16:**

**Experimental Microcirculation**

Chairpersons: Lehmann C, Plendl J (Halifax, Canada, Berlin, Germany)

Lehmann C (Halifax, Canada)

The eye - window for microcirculation research

Pavlovic D (Greifswald, Germany)

Optimization of experimental setups for microcirculatory research

Cerny V (Prag, Czech Republic)

SDF imaging in experimental microcirculatory research

Moser C, Jung EM, Schlitt HJ, Lang S (Regensburg, Germany)

Effects of the vascular disrupting agent ASA404 on tumor growth of gastric cancer in an experimental model


Near Infrared Fluorescence Imaging using the Non-specific Dye Tetrasulfocyanine and Contrast enhanced MR Imaging of Rat Ankle Joints with Experimentally Induced Arthritis

Tomaiuolo G, Guido S (Napoli, Italy)

Red blood cell deformation and clustering in microconfined Poiseuille flow
Symposium S17:
Macro- and microrheology at pathological processes
Organized by the Bulgarian Society of Biorheology and Russian Society and groups

Chairpersons: Antonova N, Velcheva I (Sofia, Bulgaria)

Antonova N (Sofia, Bulgaria)

Methods in hemorheology – from theory to clinical practice
Velcheva I, Antonova N, Stoyneva Z, Damianov P, Ivanov I, Dimitrova V (Sofia, Bulgaria)

Hemorheology and vascular reactivity in patients with diabetes mellitus type II
Velcheva I, Antonova N, Damianov P, Mantarova S, Ivanov I (Sofia, Plovdiv, Bulgaria)

Hemorheology and heart rate variability in patients with diabetes mellitus type II

Maimistova A, Muravyov A, Bulaeva S (Yaroslavl, Russia)

Macro- and microrheological parameters of blood in patients with cerebral and peripheral atherosclerosis: The molecular change mechanisms
Mikhailova SG, Tikhomirova IA, Oslyakova AO (Yaroslavl, Russia)

Microcirculation and blood rheology in patients with cerebrovascular disorders
Roitman E (Moscow, Russia)

Adrenergic erythrocytes aggregation and microcirculation
Roitman E, Azizova OA, Aseychev AV (Moscow, Russia)

Oxidized fibrinogen is a real factor disturbing hemocoagulation and blood rheology (in vitro study)
Symposium S18:
Clinical Microcirculation

Chairpersons: Jünger M, von Tempelhoff G (Greifswald, Mainz, Germany)
Jünger M (Greifswald, Germany)

Clinical effects of Fibrinogen apheresis in patients with chronic leg ulcers
Forst T (Mainz, Germany)

Microcirculation disorder and endothelial dysfunction in diabetes mellitus
Lamby P, Prantl L, Jung EM (Regensburg, Germany)

Pathophysiology and diagnostics of impaired microcirculation after free tissue transfer in plastic surgery
Jung F, Sternitzky R, Pindur G (Teltow, Dresden, Homburg/Saar, Germany)

Association between post-ischaemic perfusion in conduit arteries and in the supplied microcirculation
Gori T, Stenko A, Muxel S, Schäfer S, Münzel T (Mainz, Germany)

Peripheral Hemorheological and Vascular Correlates of Coronary Blood Flow
Kessler U, Schlapbach LJ, Klimek P, Boillat C, Zachariou Z, Jakob SM (Bern, Switzerland)

Repeated measurements of all lectin pathway of complement activation molecules in critically ill adults with sepsis.
Symposium S19: Hemorheological Disorders

Chairpersons: Aydogan S, Brun JF (Kayseri, Turkey, Montpellier, France)
Kaliviotis E (London, Great Britain)

Rheological characteristics of blood plasma in the micro/nano-scale
Antonova N, Riha P, Ivanov I, Gluhcheva Y (Sofia, Bulgaria, Prague, Czech Republic)

Experimental evaluation of mechanical and electrical properties of RBC suspensions under flow. Role of RBC deformability
Antonova M, Stoytchev S (Sofia, Bulgaria)

A Strain Energy Function for Rat Thoracic Aorta
Ahmazad S, Rahbaran A, Nkookheslat S, Moradi A, Tarmahi V, Gholami F (Teheran, Iran)

Effects of acute endurance exercise intensity on determinants of blood fluidity in older adults
Brun JF, Varlet-Marie E, Raynaud de Mauverger E (Montpellier, France)

Blood rheology and body composition as determinants of exercise performance in middle-aged patients exhibiting the metabolic syndrome
Yapıslar H, Aydogan S (Kayseri, Turkey)

Effect of Carnosine on erythrocyte deformability in streptococcin induced diabetic rats; relationship between carnosine and nitric oxide

Closing remarks: Antonova N (Sofia, Bulgaria)
Sunday, June 19th 2011  17:30 – 18:30  Room Einstein

Postersession 1
Chairperson: Varlet-Marie E (Montpellier, France)

P1: Cicha I, Urschel K, Daniel WG, Garlichs CD (Erlangen-Nuernberg, Germany)
Olmesartan and amlodipine prevent monocyte chemotaxis to MCP-1 and monocyte adhesion to endothelium under non-uniform shear stress conditions.

P2: Urschel K, Daniel WG, Garlichs CD, Cicho I (Erlangen-Nuernberg, Germany)
Shear stress patterns affect the secreted cytokine and chemokine profile in endothelial cells

P3: Aufradet E, Bessaad A, Campon Y, Canet-Soulas E, Martin C (Lyon, France)
Endothelial activation in response to hypoxia in two sickle transgenic models: the SAD and BERK mice

P5: Ahmadizad S, Fathi I, Bassami M, Howanloo F, Nikookheslat S, Ebrahimi H (Teheran, Iran)
Performing a single bout of endurance exercise at four different times of day induces similar responses in hemorheological variables

The metabolic syndrome and its individual components: Its association with venous thromboembolism in a Mediterranean population

P7: Bonet E, Suescun M, Todoli JA, Láz B, Vayá A (Valencia, Spain)
Macrocytosis and erythrocyte deformability

P8: Caprari P, Caforio MP, Tarzia A, Pasquino MT, Di Silvio D, Maffi D (Rome, Italy)
Rheological and structural characterization of Glucose-6-Phosphate Ddehydrogenase deficient red blood cells during blood bank storage

P9: Brun JF, Varlet-Marie E, Cassan D (Montpellier, France)
Blood rheology and body composition as determinants of exercise performance in female rugby players

P15: Jung EM, Ross CJ (Regensburg, Germany)
Image fusion of CEUS with PET/CT for the detection of microcirculation and perfusion of liver tumors before SIRT

Monday, June 20th 2011  12:00 – 13:00  Room Einstein

Postersession 2
Chairperson: Ahmadizad S (Teheran, Iran)

P10: Yegane EM (Qom, Iran)
There is no relationship among the responses of hemorheological parameters and lipid profiles to a single session of moderate-intensity aerobic exercise

P11: Gluhcheva Y, Ivanov I, Atanasov V, Antonova N, Ivanova J, Mitewa M (Sofia, Bulgaria)
Hematological changes in case of chronic cadmium intoxication and monensin detoxication. Relationship with rheological variables

P12: Grau M, Suhr F, Behrens H, Reichelt E, Bloch W (Köln, Germany)
Influence of smoking on deformability and oxidative stress of human red blood cells

Metabolic alterations in morbid obesity. Influence on the hemorheological profile

Intrinsic and extrinsic factors cause angiogenic heterogeneity of endothelial cells in vitro

P17: Suescun M, Vayá A, Mico ML, Todoli JA, Ricart JM (Valencia, Spain)
Hemorheological profile in primary Sjögren’s syndrome: a case-control study
Modulation of the endocannabinoid system affects the iridial microcirculation in experimental endotoxemia

Effects of exercise training on blood rheology: a meta-analysis

Cannabinoid receptor CB2 - A novel target to improve intestinal microcirculation in experimental sepsis
Tuesday, June 21st 2011  11:15 – 12:30  Room Einstein

Postersession 3

Chairperson:  Cicha I (Nuernberg, Germany)

P21: Varlet-Marie E, Brun JF, Raynaud de Mauverger E (Montpellier, France)
Blood rheology and body composition as determinants of exercise performance in male soccer players

P22: Momot A, Fadeeva N, Agarkova T, Remneva O, Yavorskaya S, Antyufeeva X (Russia)
Heparin prophylaxis of placental insufficiency at pregnant women with the thrombophilia

P23: Kaessmeyer S, Plendl J (Berlin, Germany)
Postnatal endothelial progenitor cells detected in the corpus luteum

P24: Braune S, Cui J, Kratz K, Jung F, Lendlein A (Teltow, Germany)
Morphology and function of smooth muscle cells on poly (n-butylavrylate) networks with different elastic moduli

Viability, proliferation, apoptosis and adhesion of smooth muscle cells (SMCs) and endothelial cells (HUVECs) on degradable electrospun structures

P26: Wobser H, Wiest R, Georgieva M, Jung EM (Regensburg, Germany)
Evaluation of tumor microcirculation of HCC lesions after chemoembolisation (TACE) using contrast enhanced ultrasound (CEUS) with image fusion and follow up with CT

P27: Kessler U, Berger S, Zachariou Z, Klimek P (Bern, Switzerland)
A single fatty meal doesn’t cause hypercoagulability in medium altitude

P28: Roch T, Braune S, Lange M, Seifert B, Lendlein A, Jung F (Teltow, Germany)
Immunocompatibility of Poly(n-butylacrylat) networks

P29: Reinhart W, Geissmann-Ott C, Bogdanova A (Chur, Switzerland)
Activation of N-methyl D-aspartate (NMDA) receptors has no influence on rheological properties of erythrocytes

P30: Yapislar H, Taskin E (Kaesere, Turkey)
Can Carnosine Have Protective Effects on Erythrocytes in Subtotal Nephrectomy
Multimodality imaging using ultrasound image fusion in renal lesions

Elastography: A new diagnostic tool for classification of obstructive sialadenitis

Research actovegin effect to RBC hemorheological features and platelet aggregation in patients with chronic cerebrovascular pathology in vitro

Evidence that the degree of band 3 phosphorylation modulates human erythrocytes nitric oxide efflux – in vitro model of hyperfibrinogenaemia

Hemotheological and haemostatic profiles in hypertensive subjects

Gene therapy with iNOS enhances regional contractility and reduces delayed contrast enhancement in a model of postischemic congestive heart failure
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Social Program

An attractive program will be offered to congress participants and their accompanying persons.

Sunday, June 19th 2011

Barbecue at the conference hotel

19.00 Start of the Barbecue on the terrace of the conference hotel
Price: EUR 45.00 per person (participants or accompanying persons)
All inclusive: food and drinks

Monday, June 20th 2011

Conference Dinner – Trip to "Buchscharner Seewirt" on the Starnberger See

For more than two centuries the today’s "Buchscharner Seewirt" existed as "Wildschönau" in Tyrol, Austria. Is building technique - masoned ground work, surrounding balcony and a built-on stairway from shelves above a of the alps. In Tyrol the uneconomic house had to give way to a new building by the "Spaten"-brewery, decomposed in its separate parts, carried to the been reconstructed. In this way the gastronomic facility "Buchscharner being there since a long time, not only at first sight. Time schedule:

18.30 Transfer by bus from the Congress Hotel to the "Buchscharner Seewirt"
from 19.45 Aperitif and dinner
c.a. 22.15 Return journey
c.a. 23.00 Arrival at the Congress Hotel
Price: EUR 65.00 per person (participants or accompanying persons)
All inclusive: round trip by bus, aperitif, drinks and 3-course menu
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Sincere thanks are given to the companies for their generous support.