

8th World Congress on

TRAUMA, SHOCK, INFLAMMATION AND SEPSIS - TSIS 2010

March 9th-13th, 2010, Munich, Germany

In Conjunction with the
23rd SIS-Europe Congress on Surgical Infections (www.sis-e.org)
and the
2nd Interdisciplinary Summit on Inflammation

Topics of Symposia (Excerpt)

I Cell-/Molecular Biology

- In-Vivo Models of Inflammation
- Damage and Danger Recognition and Response to Stressful Conditions
- The Sterile Inflammatory Response
- Activation of Inflammatory Processes: The Role of the Inflammasome
- TLRs/NLRs/RLRs and Signal Transduction in Innate Immunity
- Resolution of Inflammation: Molecular Mechanisms
- Dysfunctional Cell Migration – Pathophysiologic Consequences
- The Role of Dendritic Cells and Regulatory Dendritic Cells in Acute Inflammatory Disease
- Immunologic Memory and Chronic Inflammation
- Regulation of T-Cell Function: Update on Treg-Subpopulations and Clinical Relevance
- Trauma and Infection Induced Immunodysfunction: Activators, Mediators and Compartments
- Novel Mediators of Inflammation and Sepsis: Biochemistry and Function
- Cytokines and Stem Cells
- Crucial Roles of Cytokines and Adipokines for the Regulation/Dysregulation of Metabolic Homeostasis

II Clinical Pathophysiology

- Stress Response to Critical Illness
- Coagulation in Septic Versus Non Septic Inflammation
- Mitochondrial Function and Dysfunction: From Adaptive Strategies to Critical Organ
- Injuries in States of Trauma and Infection
- Endoplasmic Reticulum Stress in Disease Pathogenesis
- Neuroregulation of the Immune Response – From Preclinical Data to Patient Benefit
- Inflammation at Interfaces
- Liver Disease as a Cause and Consequence of Systemic Inflammation
- Genetic Variation in Innate Immunity and Susceptibility to Disease
- Gender in Human Disease: Where Does It Matter?
- Inflammatory Pathogenesis of Chronic Diseases: New Insights
- Role of Inflammation in Neurodegeneration and Neuroregeneration
- Inflammatory Bowel Disease: Inflammatory and/or Infectious Disease?
- Crossroads of Inflammation and Cancer: Innate Immune Response and Endogenous Mediators
- Relevant Animal Models of Sepsis

- Atherosclerosis, Metabolic Syndrome and Obesity: Novel Insights in the Mechanisms of Inflammation
- Animal Models in Regenerative Medicine
- Endotoxin Associated Human Diseases: Update on Interactions with the Host, Quantifying Toxin Load and Technologies of Removal
- Pediatric Sepsis and Multiple Organ Dysfunction Syndrome
- Intestinal Inflammation/Injury: Pathogenesis and Therapeutic Approaches
- Pathophysiologic Factors of Acute Lung Injury
- Systems Biological Approaches in Infectious Diseases
- Myocardial Suppression and Impaired Regulation of Cardiovascular Function in Inflammation, Sepsis, MODS
- Understanding Newly Emerging Nosocomial Pathogens
- Problematic Microbial Infections: Epidemiology, Mechanisms of Resistance and Optimization of Therapy
- Transplantation and Infection
- Immunopathologic Mechanisms in Fungal Infection and Sepsis
- Glycemic Control in Acute Care: What Is the Status of the Learning Curve?
- Novel Insights in the Pathophysiology and Treatment of Acute and Chronic Pain
- Randomized Clinical Trials in Acute Care Medicine: Is There a Need for Better Infrastructure?

III Monitoring/Imaging

- Predictive Medicine in Trauma, Shock and Sepsis
- Challenges in Designing Randomized Clinical Trials in Acute Inflammation and Sepsis
- Novel Electronic Support Systems to Improve Critical Care Quality
- Functional Hemodynamic Monitoring: New Tools for Optimal Assessment
- Monitoring of Antimicrobial Therapy
- Rapid Molecular Tools in Microbiologic Diagnostics
- Microarrays in Inflammation
- RNAi Technology: Application in Systemic Inflammatory Diseases
- Novel Biomarkers Detect and Quantify Acute and Chronic Inflammation
- Magnetic Nanoparticle Biosensor Technology: Current Clinical Applications and Future Perspectives
- Immunoinflammatory Monitoring Following Trauma, Shock and Sepsis
- Lipidomic Biomarkers in SIRS and Sepsis
- Multi-Modality Imaging of Acute and Chronic Inflammatory Diseases
- Update on Non-Invasive Assessment of Dysfunctional Cell and Organ Activity via Radio- and Molecular Imaging

IV Therapeutic Approaches

- From Guidelines to Practice: The New Science of Implementation
- Surviving Sepsis Campaign Phase III: Implementation of Sepsis Bundles and Reduced Mortality
- Early Sepsis Resuscitation: What Should We Target?
- Bacterial Sepsis: New Treatment and Prevention Paradigms
- Blood Purification and Plasmapheresis Systems in Acute Inflammation and Sepsis
- Novel Immunomodulatory Intervention Strategies in Acute Care Medicine
- HMGB-1: Therapeutic Target versus Therapeutic Agent
- Vaccine Strategies for Immunocompromised Patients
- Pulmonary Infection in the Immunocompromised Patient: Effective Recognition and Treatment
- Managing the Infected Heart
- Antiinflammatory Effects of Inhaled Drugs in Sepsis and Acute Lung Injury
- Novel Therapeutic Targets in Autoimmune Inflammation
- Individualized Optimal Nutritional Management for Acute Critically Ill Patients: Crucial Factors
- Prevention of Nosocomial Infections: Old, New and Smart Approaches
- Identification and Control of Surgical Site Infections: Crucial Factors
- Management of Post Operative Ileus: State of the Art
- Cornerstones and Controversies in the Management of Intraabdominal Infection
- Modern Management of Necrotizing Tissue Infections
- Resistant Superbugs and New Antibiotics
- Woundhealing and Tissue Engineering: New Therapeutic Approaches
- Management of Hemorrhagic Shock
- The Future of MODS is MORE (Multiple Organ Reprogramming/Regeneration)
- Clinical Perspectives of Stem Cell Therapy in Traumatic Tissue Destruction and in Chronic Inflammatory Diseases
- Metabolic Surgery: Crucial Indications, Perioperative Interdisciplinary Management, Appropriate Procedures, Complications and Monitoring of Outcome

Call for Abstracts
(Deadline Nov 6th, 2009)

Choice of Topics for the submission of
Free Communication Abstracts can
be seen under www.TSIS2010.org/

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