Thursday, September 21, 2023

ESS

7:30-16:00	Congress registration
	Found in Translation: Pathomechanisms of Critical Care Illness
	Main Session (AudiMax)
	Chairs: Stefanie Flohe, Germany / Timothy Billiar, USA
09:00-09:20	Pheno-and endo-typing in the ICU: reality or hype? Matthijs Kox, Netherlands
09:20-09:40	Polytrauma: are immunomodulatory therapies feasible? Markus Huber-Lang, Germany
09:40-10:00	It is in the blood: Characterization of the Human Injury Response by Single Cell Omics. Timothy Billiar, USA
10:00-10:15	Procizumab: a new treatment at the crossroad of circulatory failure? Antoine Herpain, Belgium
10:15-10:30	Methane revisited: mechanisms & its utility in critical ischemic conditions. <i>Mihaly Boros, Hungary</i>
10:30-10:45	A smelly choice: protecting revascularized organs with hydrogen sulfide. Alex Dyson, UK
10:45-11:15	Coffee Break
	An Impactful Encounter: Sepsis meets COVID-19
	Main Session (AudiMax)
	Chairs: Evangelos J. Giamarellos-Bourboulis, Greece / Jesus Bermejo-Martin, Spain
11:15-11:20	Opening of ESS (Marcin Osuchowski, ESS/Roland Frank, AUVA)
11:20-11:40 11:40-12:00	NK cells under stress: functional reprogramming in sepsis and COVID-19. <i>Stefanie Flohe, Germany</i> Sepsis-COVID-19: precision medicine crossroads. <i>Evangelos J. Giamarellos-Bourboulis, Greece</i>
12:00-12:20	Severe COVID-19: a cytokine of viral storm? Jesus Bermejo-Martin, Spain
12:20-12:40	ECMO as last resort: differences/similarities in COVID-19 and non-C-19 ARDS. Waldemar Gozdzik, Poland
12:40-13:00	My COVID-19 teacher: what sepsis researchers can learn? <i>Joost Wiersinga, Netherlands</i>
13:00-14:00	Lunch
13:30-14:45	Poster Session (Courtyard Poster Area) (Organization: Mihaly Boros, Hungary / Jean-Marc Cavaillon, France)
	SOMAREALITY – Company Lecture
	Main Session (AudiMax)
	Chairs: Johannes Zipperle, Austria / Martin Helan, Czech Republic
14:45-15:05	The potential of eye-tracking based digital biomarkers for neurological monitoring. Julia Kern, Austria
15:05-15:15	Q/A (10min)
	The End is Only the Beginning: Chronic Consequences of Acute Illness
	Parallel Session 1 (AudiMax)
	Chairs: Andreas Barratt-Due, Norway / Marc Jeschke, Canada
15:15-15:30	Long COVID-19: what we know and what we fear. Andreas Barratt-Due, Norway
15:30-15:45	Longitudinal PBMC proteomics to understand COVID-19 progression. <i>Reinaldo Salomao, Brazil</i>
15:45-16:00 16:00-16:15	A burning need: novel technologies for wound healing. <i>Marc Jeschke, Canada</i> Long-term sepsis consequences: the immunity in the driver's seat. <i>Charles de Roquetaillade, France</i>
16:15-16:30	Post-sepsis chronic muscle weakness: mitochondria damage as key culprit. <i>Hiroshi Saito, USA</i>
16:30-16:45	No way back- the tradeoff of surviving sepsis. Sebastian Weis, Germany
16:45-16:55	Detailed immunophenotyping of pediatric septic patients - mapping the features of long-lasting immunosuppression.
	Marcela Hortova-Kohoutkova, Czech Republic (abstract 166)
16:55-17:05	Role of different biomarkers predicting 90-day mortality in COVID-19 patients according to time since disease onset prior to hospitalization.
17:05-17:15	<i>Tamara Postigo Casado, Spain (abstract 131)</i> Interleukin-2: A Key Player in Age-related Disparities of Performative Physical Outcomes among Polytraumatized Patients.
17.00-17.10	Lena Reichardt, Germany (abstract 146)
17:15-17:25	Insufficient heme degradation in macrophages - a factor aggravating post-sepsis complications in diabetes?
	Catharina Duvigneau, Austria (abstract 156)
	All Models are Wrong but Some are Useful
	Parallel Session 2 (Lecture Hall)
15.15 15.00	Chairs: Tomasz Skirecki, Poland / Anna Herminghaus, Germany
15:15-15:30	Pneumonia 1: Bacterial. <i>Tomasz Skirecki, Poland</i>

19:00-22:00	Speakers Dinner (12 Apostles Cellar; Sonnenfelsgasse 3, 1010 Vienna; 1.4km, 20min walk)
17:30-18:30	Get-together (Uni Wien Courtyard)
17:15-17:25	Impact of "Early Life Stress" on anesthesia-related systemic alterations. Franziska Muenz, Germany (abstract 111)
17:05-17:15	A porcine model of severe compartment syndrome in the lower extremity. Philipp Thaler, Austria (abstract 171)
16:55-17:05	Bruton's tyrosine kinase inhibition attenuates disease progression by reducing renal immune cell invasion in mice with hemolytic-uremic syndrome. Sarah Kröller, Germany (abstract 128)
	Photoacoustic Technology. Caroline O'Riordan, UK (abstract 120)
16:45-16:55	Enhancing Sepsis and Shock Research: Unravelling Early Dysfunction and Molecular Targets Non-Invasively Through Ultrasound and
16:30-16:45	Organs-on-the-Chip: in vitro veritas? Mario Rothbauer, Austria
16:15-16:30	Polytrauma: small and large animals. <i>Borna Relja, Germany</i>
16:00-16:15	Abdominal sepsis 2: CASP. Anna Herminghaus, Germany
15:45-16:00	Abdominal sepsis 1: CLP. Irshad Chaudry, USA
15:30-15:45	Pneumonia 2: COVID-19. <i>Sylvia Knapp, Austria</i>
15.15-15.50	Fileumonia I. Dactenai. Tomasz Skrecki, Folanu

Friday, September 22, 2023

ESS

	A Light in the Critical Care Tunnel: Improvements in Diagnosis & Therapy
	Main Session (AudiMax)
08:30-08:45	<u>Chairs: Christoph Thiemermann, UK / Andrea Szabo, Hungary</u> Next Generation Sequencing: sensitive and rapid diagnostics for sepsis. <i>Kai Sohn, Germany</i>
08:45-09:00	Modern use of old therapies: Activated carbon in sepsis prevention and treatment. <i>Elisaveta Snezhkova, Ukraine</i>
09:00-09:15	The hepatic PI3K-PKC axis in critically ill: A drugable target to restore liver function. Adrian Press, Germany
09:15-09:30	Plasma exchange in septic shock: removal or replacement? Sascha David, Switzerland
09:30-09:45	Endothelial dysfunction: a therapeutic target in sepsis? Steve Kerrigan, Ireland
09:45-10:00	A real-time action: rapid diagnostics of coagulopathy in polytrauma. Herbert Schöchl, Austria
10:00-10:15	Freeze-dried plasma in the ER: OctaplasLG® as a new pharmaceutically-licensed resuscitation product. Andrea Heger, Austria
10:15-10:45	Coffee Break
	Keynote lecture
	Main Session (AudiMax)
	<u>Chairs: Marcin Osuchowski, Austria / Marc Maegele, Germany</u>
10:45-10:50	Introduction (Marcin Osuchowski)
10:50-11:30	From Cancer to Intensive Care Medicine: Must-Learn Lessons (Alberto Mantovani, Italy)
11:30-11:45	Q/A
5 min Break	
	40 Years of ESS: Reminiscences
	Main Session (AudiMax)
11.50 12.00	<u>Moderators: Marcin Osuchowski, Austria / Borna Relja, Germany</u> Down-the-Memory-Line. <i>Andrea Szabo, Hungary</i>
11:50-12:00 12:00-12:45	Round Table with Past ESS Presidents – Q/A
12.00-12.45	(Aasen, Bahrami, Brückner, Cavaillon, Goris, Giamarellos-Bourboulis, Neugebauer, Huber-Lang, Thiemermann, Redl)
12:45-13:45	Lunch
	Rising Stars: European New Investigator Award Competition
	Main Session (AudiMax)
	(Organization: Sina Coldewey, Germany)
	Chairs: Sina Coldewey, Germany / Jan Goris, Belgium
	Judges (tentative): J-M. Cavaillon (F), C. Thiemermann (UK), B. Zingarelli (USA), F. Aletti, (IT), I. Marzi (D)
13:45-14:00	suPAR combined with qSOFA as a prediction tool at the emergency department to guide early antibiotic treatment: a randomized trial. <i>Maria Adami, Greece</i> (abstract 142)
14:00 14:15	Modelling trauma-related acute kidney injury (TRAKI) reveals a highly complex temporo-spatial pathophysiological response.
14:00-14:15	Rebecca Halbgebauer, Germany (abstract 150)
14:15-14:30	Dexamethasone benefits are partly due to a reduction of thrombogenic risk in critically ill COVID-19 patients.
	Naimeh Hashemi, Austria (abstract 165)
14:30-14:45	Methane inhalation improves microcirculatory-mitochondrial distress in a large animal model of sepsis. Atilla Rutai, Hungary (abstract 149)
14:45-15:00	An imbalance of the master regulators of metabolism promotes the dysfunction of natural killer cells during human sepsis.
	Andre van der Wurff, Germany (abstract 136)
15:00-15:30	Coffee Break
	Harnessing Coagulopathy in Critical Illness
	Parallel Session 1 (AudiMax)
	Chairs: Christoph Schlimp, Austria / Athanasios Chalkias, Greece
15:30-15:45	REBOA: Visceral Ischemia and Reperfusion Coagulopathy. Ernest Moore, USA
15:45-16:00	Shear stress and endothelial mechanotransduction: hidden pro-coagulopathy pathways in massive trauma. Athanasios Chalkias, Greece
16:00-16:15	Coagulopathy in the critically ill: lessons learnt from COVID-19. Johannes Gratz, Austria
16:15-16:30	Cellular modulation and dysregulation of hemostasis in the critically ill. Johannes Zipperle, Austria
16:30-16:40	Implementation of a point-of-care ROTEM® algorithm for perioperative bleeding in a tertiary academic hospital.
16:40 40:50	<i>Giacomo Iapichino, Italy (abstract 119)</i> Prehospital Pooled Frozen Solvent Detergent Plasma in a Nonhuman Primate Polytrauma Hemorrhage Model.
16:40-16:50	Alejandra Lorenzen, USA (abstract 124)
16:50-17:00	Enhanced platelet activation in patients with COVID-19 pneumonia. <i>Nicky Solomonidi, Greece (abstract 208)</i>

17:00-17:10	Multimodal platelet function testing during cardiopulmonary bypass - a pilot study. Roman Hajek, Czech Republic (abstract 123)
	Technological Palantir: In silico modeling
	Parallel Session 2 (Lecture Hall)
	Chairs: Federico Aletti, Italy / Brendon Scicluna, Malta
15:30-15:45	Deus ex machine - clinical need and remaining challenges. Florian Uhle, Germany
15:45-16:00	Integrated Analysis of SIRS-Sepsis, Organ Dysfunction, and Mortality: Protein Biomarkers and their Biological Process Importance. Vicent Ribas-Ripoll, Spain
16:00-16:15	Autonomic control in shock: decoupling of heart rate and blood pressure regulation. Federico Aletti, Italy
16:15-16:30	The Consensus Molecular Endotypes of Sepsis and Septic Shock. Brendon Scicluna, Malta
16:30-16:40	Blood-based risk assessment for infectious outcomes in polytrauma via machine learning. Tobias Jooss, Germany (abstract 170)
16:40-16:50	Pathogenesis-related common gene polymorphism and complementary molecular biomarker concept: a step toward precision medicine of sepsis. <i>Vladimir Pisarev, Russia (abstract 176)</i>
16:50-17:00	The combination of CRP and PCT improves the identification and severity stratification of infection in surgical patients. Amanda de la Fuente, Spain (abstract 147)
17:00-17:10	Metabolomic profile in sepsis according to the state of immune activation. Eleftheria Kranidioti, Greece (abstract 202)
18:00-19:00	Shock(ing) Organ Concert – Jesuit Church (1.6km/20min walking distance from the congress venue)

Saturday, September 23, 2023

ESS

	1983
	Animal-based Research in Critical Care: Reality, Challenges and Solutions
	Main Session (AudiMax)
	<u>Chairs: Marcin Osuchowski, Austria / Daniel Remick, USA</u>
08:30-08:45	Animal Research: time to talk! Kirk Leech, UK
08:45-09:00	The legal reality: regulatory aspects of animal use. Susanne Drechsler, Austria
09:00-09:15	Hurdles in running a pre-clinical lab: Germany vs the US Perspective. Markus Bosmann, Germany
09:15-09:30	Preregistration in animal research – Animal welfare and scientific progress. Celine Heinl, Germany
09:30-09:45	Veterinary research: another solution for clinical translation. Kris Gommeren, Belgium
09:45-10:00	Mortality as translational endpoint: a must-do or useless redundancy? Christian Braun, Germany
10:00-10:30	Coffee Break
	The Lethal Trauma/ Shock /Sepsis Triad: Where We Are & Where We Go
	Main Session (AudiMax)
	Chairs: Thomas Hausner, Austria / Roland Frank, Austria
10:30-10:45	Trauma hemorrhage and shock: novel insights and clinical relevance. <i>Marc Maegele, Gemany</i>
10:45-11:00	Translational Research: Polytrauma-Serum Database Consortium. <i>Ingo Marzi, Germany</i>
11:00-11:15	The Renin-Angiotensin System in acute lung injury – friend or foe? <i>Roman Ullrich, Austria</i>
11:15-11:30	The master key: immune system in control of sepsis pathophysiology. <i>Jan Frič, Czech Republic</i>
11:30-11:45	Cardiovascular dysfunction in sepsis: a clinical perspective. <i>Sina Coldewey, Germany</i>
11:45-12:00	Vasoplegic shock: time to forget about septic shock? Zsolt Molnar, Hungary
5 min Break	
12:05-12:10	Introduction (Herbert Schöchl / Thomas Hausner)
12:10-12:20	Sepsis Patient testimonial: Mr. Dennis Kredler, Belgium
12:20-12:25	Introduction (Herbert Schöchl / Thomas Hausner)
12:25-12:35	Polytrauma Patient testimonial: Mr. Paul Föll, Germany
12:45-13:45	Lunch
13:45-14:45	General Assembly ESS (AudiMax)
	Exosomes in Critical IIIness: Diagnostics, Treatment or both?
	Parallel Session 1 (AudiMax)
	<u>Chairs: Wolfgang Holnthoner, Austria / Viktoria Weber, Austria</u>
14:45-15:00	Omnipresent EV species: characteristics & enrichment approaches. Wolfgang Holnthoner, Austria
15:00-15:15	How extracellular vesicles in body fluids interfere with virus infection and transmission. Janis Müller, Germany
15:15-15:30	A new frontier: clinical importance of exosomes in sepsis. Barbara Adamik, Poland
15:30-15:45	Exosomes: an emerging tool for liquid biopsy in sepsis. Basilia Zingarelli, USA
15:45-16:00	EVs as mediators of immunothrombosis in sepsis & COVID-19. <i>Victoria Weber, Austria</i>
16:00-16:10	Characterization of circulating tissue factor-bearing extracellular vesicles in COVID-19 provides evidence for platelet-leukocyte aggregate formation. <i>Tanja Eichhorn, Austria (Abstract 109)</i>
16:10-16:20	Unraveling the pathogenic and pro-inflammatory potential of extracellular vesicles secreted by <i>Bacillus cereus</i> . Astrid Laimer- Digruber,Austria (Abstract 110)
16:20-16:30	Red blood cell transfusion-related dynamics of extracellular vesicles in intensive care patients – a prospective subanalysis. <i>Pierre Raeven, Austria (Abstract 117)</i>
16:30-16:40	Functional thromboelastometry: an effective monitoring tool in small rodent models of acute critical care illnesses. Fatemeh Azizian-Farsani, Austria (Abstract 154)
	It's a No-Brainer: Neuro-Signaling & Pathophysiology
	Parallel Session 2 (Lecture Hall)
	Chairs: Andrey Kozlov, Austria / Gerhard Fritsch, Austria
14:45-15:00	Mitochondria: key players of excitotoxicity in brain injury? Andrey Kozlov, Austria
15:00-15:15	Testing reanimation frontiers: preserving brain/neuronal functionality in prolonged cardiac arrest. Wolfgang Weihs, Austria
15:15-15:30	The Glasgow Coma Scale: well established, often used but adequate? Martin Winkler, Germany
15:30-15:45	Septic encephalopathy: a dynamic trajectory from inflammation to neurodegeneration? Antigone Kotsaki, Greece
15:45-16:00	Rare genetic neurodevelopmental syndromes: all (many) roads lead to neuroinflammation? Ignacio Rubio, Germany
16:00-16:10	Critical illness polyneuropathy: insights into pathogenesis of a neglected disease. Radoslaw Kanarkowski, Poland (Abstract 218)

16:00-16:10	Critical illness polyneuropathy: insights into pathogenesis of a neglected disease. Radoslaw Kanarkowski, Poland (Abstract 218)
16:10-16:20	Is lactate a good or a bad guy for rescuing neurons from glutamate-mediated death? A study in primary cortical cells. Anette Vaglio Garro, Austria (Abstract 158)
16:20-16:30	New TBI-specific blood-based EV biomarker candidates in polytrauma patients. Cora Schindler, Germany (Abstract 154)
16:30-16:40	Do current trauma scores require critical adjustments due to the dynamics of traumatic brain injury? Jason-Alexander Hoerauf, Germany (Abstract 143)
18:30-24:00	sit-in Gala Dinner, Festsaal, City Hall, Vienna
18:30-19:00	Aperitifs
19:00-21:00	Dinner
20:30-21:00	Awards
21:00-24:00	Party time with live music by AI Capone Band (<u>https://alcaponeband.at</u>)