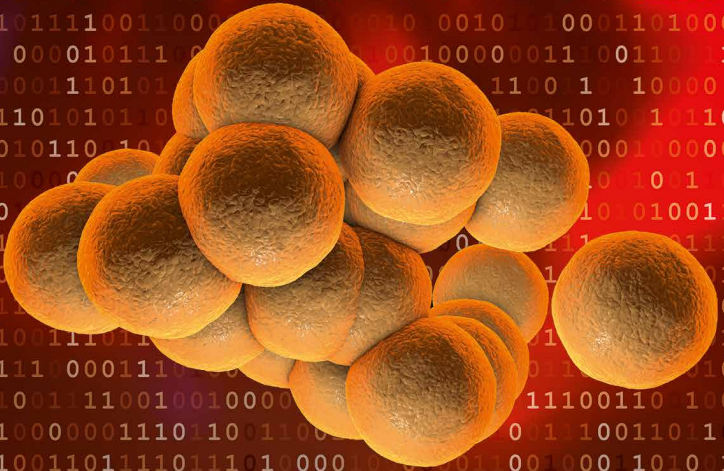


ZUKUNFTSKONZEPT UNIVERSITÄT HEIDELBERG
MASSNAHME 5.4
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SEIT 1386

SCIENTIFIC COMPUTING FOR THE IMPROVED DIAGNOSIS AND THERAPY OF SEPSIS (SCIDATOS) WORKSHOP FEBRUARY 18–19, 2016



PROGRAMME

FEBRUARY 18, 2016

- 08:30 Registration
- 09:00 Introduction to sepsis as a health problem and current research challenges: Workshop overview
MANFRED THIEL · HEIDELBERG UNIVERSITY
- 09:15 The power of electronic health databases, the challenges of data quality
LISA M. LIX · UNIVERSITY OF MANITOBA
- 10:00 An algorithm for systemic inflammatory response syndrome (SIRS) criteria-based prediction and diagnosis of sepsis in a polytrauma cohort
VERENA SCHNEIDER-LINDNER · HEIDELBERG UNIVERSITY
- 10:30 Rapid diagnosis of bacterial infection and resistogram determination by MALDI-TOF and metabolic testing
MICHAEL NEUMAIER · HEIDELBERG UNIVERSITY
- 11:15 **Coffee**
- 11:30 Sensing of PAMPs and DAMPs and its inflammatory consequences – Are there any differences?
THOMAS MIETHKE · HEIDELBERG UNIVERSITY
- 12:15 Compliance with patient privacy and data security regulations in research (presentation in German)
SILKE JANDT · KASSEL UNIVERSITY
- 13:00 Morning capsule
- 13:15 **Lunch**
- 14:30 CARS and compartmentalization of the immune response in systemic inflammation and sepsis
JEAN MARC CAVAILLON · INSTITUT PASTEUR, PARIS
- 15:15 Molecular therapies – Why have they failed?
JOHN C. MARSHALL · ST. MICHAEL'S HOSPITAL, TORONTO
- 16:00 Afternoon capsule
- 16:10 **Coffee & cake**
- 16:45 Open forum / Panel discussion
- 17:45 Closing remarks
MANFRED THIEL · HEIDELBERG UNIVERSITY
- 18:45 **Dinner at Haus Buhl**

PROGRAMME

FEBRUARY 19, 2016

- 09:00 Introduction to mathematical modeling and simulation: Overview
HANS GEORG BOCK · HEIDELBERG UNIVERSITY
- 09:15 Hypoxia inducible factor (HIF) network – Insights from mathematical models
ALEX CHEONG · ASTON UNIVERSITY, BIRMINGHAM
- 10:00 Constructing the gene regulatory network of macrophage in inflammation
TA-CHIEN TSENG · NATIONAL CHENG KUNG UNIVERSITY, TAIWAN
- 10:30 **Coffee**
- 10:45 Modeling the immune response
GENNADY BOCHAROV · UNIVERSITY OF CHESTER
- 11:30 Modeling systemic inflammation and sepsis: On model systems and system models
IOANNIS P. ANDROULAKIS · RUTGERS UNIVERSITY
- 12:15 Molecular mechanisms of primary hemostasis and links to sepsis
FRAUKE GRÄTER · HEIDELBERG INSTITUTE FOR THEORETICAL STUDIES
- 12:30 Morning capsule
- 12:45 **Lunch**
- 13:45 Persistent inflammation and immunosuppression in septic multiple organ failure – The clinical perspective
KONRAD REINHART · UNIVERSITY HOSPITAL JENA
- 14:30 Text mining infrastructure for cancer biology
SOPHIA ANANIADOU · UNIVERSITY OF MANCHESTER
- 15:15 Afternoon capsule
- 15:25 **Coffee & cake**
- 15:40 Open forum / Panel discussion
- 16:30 Closing remarks
HANS GEORG BOCK · HEIDELBERG UNIVERSITY

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LOCATIONS

Workshop: International Academic Forum Heidelberg (IWH)
Hauptstr. 242 · 69117 Heidelberg

Dinner: Haus Buhl · Hauptstr. 234 · 69117 Heidelberg

ORGANIZERS

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FURTHER INFORMATION AVAILABLE AT

www.scidatos.de