Bringing Big and Complex Data into Clinical Practice

24 June 2016
Martinsried/Munich, Germany
# Program

## Plenary Session I: Big Data in Translation

**Prof. Dr. Marcus Kaiser**  
ICOS, School of Computing Science, Newcastle University  
Determining Epilepsy Surgery Targets Through Connectome-based Computer Simulations  
11:30

**Prof. Dr. Menno de Jong**  
Amsterdam Institute for Global Health and Development  
Systems Medicine Diagnostics: The Future of Infectious Disease Management?  
12:00

**Dr. Kai Stoever**  
Vice President, Shionogi Limited, London  
Big Data in the Pharmaceutical Value Chain  
12:30

**Prof. Dr. Fabian Theis**  
Institute of Computational Biology, Helmholtz Zentrum München  
Network Biology for Big Data Integration  
13:00

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## Lunch  
13:30 – 14:30

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## Plenary Session II: Big Data in Systems Medicine

**Prof. Dr. Francesco Falciani**  
Institute of Integrative Biology, University of Liverpool  
Computationally Driven Learning of Disease Mechanisms to Predict Patient Outcome  
14:30

**Dr. Gerhard Kraner**  
Discovery Software GmbH, Vienna  
Privacy-Preserving Data Mining (PPDM): An Approach to Safely Share and Use Sensitive Medical Data  
15:00

**Dr. Dieter Maier**  
Biomax Informatics AG, Munich  
Introduction to Panel Discussion: What Are the Next Steps to Using Big Data in Clinical Practice?  
15:30

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## Panel Discussion

**Panel Discussion**  
16:15 – 17:45

**Panel Discussion**

**Peter Steiert**  
Department Head, Bayerisches Staatsministerium für Gesundheit und Pflege (Bavarian Ministry of Health and Care)

**Prof. Dr. Karlheinz Seidl**  
Director of Medizinischen Klinik IV, Klinikum Ingolstadt

**Prof. Dr. Stefan Burbach**  
Chief Physician, Klinik für Kinder- und Jugendmedizin, Klinikum Schwabing (Clinic for Children and Youth, Klinikum Schwabing)

**Prof. Dr. Emiel Wouters**  
Department of Respiratory Medicine, University Medical Centre, Maastricht

**Moderator: Dr. Siegfried Jedamzik**  
Director, Bayerische TelemedAllianz

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**Closing**  
17:45

**Dr. Klaus Heumann**  
Biomax Informatics AG, Munich  
Closing Remarks

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**Closing**  
18:00

**Evening Program**

**Transfer to Weihenstephan**  
18:15

**Beer tasting and informal get together**  
19:00
Enable every patient, researcher and doctor to benefit from and contribute to the collective know-how, experience and knowledge on a disease.

This requires:

- **Fully digital** data- and information management (Healthcare 1.0)
- **Semantic integration** of heterogeneous data and tools (Healthcare 2.0)
- **Systematic feed-back** of events and experience (Healthcare 3.0)
Value based medicine – for patient benefit

- The right treatment
- At the right dose
- For the right patient
- At the right time
- For the best possible therapy

Cost efficiency

Increasing burden on the patient

Win-win situation for patients and healthcare system

Increasing cost burden for the healthcare economy

Quality of medication & care
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>9:10</td>
<td>Prof. Dr. Emiel Wouters</td>
<td>Department of Respiratory Medicine, University Medical Centre, Maastricht: Personalised Management in COPD: Beyond Gold Reductionism</td>
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<td>9:50</td>
<td>Henning Schneider</td>
<td>CIO, University Medical Center Hamburg-Eppendorf (UKE): Challenges, Opportunities and Successes of the Usage of Digital Patient Data at the UKE</td>
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<td>10:30</td>
<td>Prof. Dr. Hans-Werner Mewes</td>
<td>School of Life Sciences Weihenstephan Technische Universität München: Visions of the Future: How Clinical Data Will Change Medicine</td>
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<td>Coffee break</td>
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## Evening Program

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We appreciate your feedback!

## Biomax Symposium 2016

### Bringing Big and Complex Data into Clinical Practice

### Feedback

#### Opening Session: Big Data in Health Care

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Comments: ________________________________

Thank you!