Knowledge Management in Personalized Medicine

**Symposium**

Knowledge Management in Personalized Medicine

Personalized medicine has developed to one of the main topics in healthcare in recent years. The idea of Personalized Medicine is tailoring all medical decisions and practices to the individual patient. Integrating the huge amounts of data that are produced due to the tremendous biotechnological development challenges current information technology but is a pre-requirement to progress in treating the particular patient and his/her specific disease more individually and thus more successfully. Knowledge management has gained increasing importance in leveraging — if not even enabling — the integrated view on various healthcare aspects when trying to conceive an overall picture of the individual patient and his individual disease.

This symposium is dedicated to the concepts and challenges of knowledge management as well as to the obvious need for data structuring and integration in personalized medicine. It draws an arch from state of the art knowledge management over the application of knowledge management methods in exemplary projects up to practical know-how sessions. The talks are mainly addressed to medical researchers and bioinformatics scientists related to systems medicine.

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**Part I: State of the Art in Personalized Medicine**

**REGISTRATION:** 8:30 A.M. **START:** 9:30 A.M.

**UNIV.-PROF. DR. EMI WOUTERS**
Department of Respiratory Medicine, University Medical Centre, Maastricht
The Ciro+ Data Center

**UNIV.-PROF. DR. HANS-WERNER MEWES**
Helmholtz-Center, Munich
The Need for Structured Data in Medical Research

**UNIV.-PROF. DR. JOSEF ROCKA**
Lung Function Unit, Hospital Clinic, Barcelona
Integrating Care for Chronic Conditions: Toward a Systems Medicine approach

**UNIV.-PROF. DR. CHRISTIAN PESCHL**
Technical University, Munich
Challenges of Personalized Cancer Medicine

**UNIV.-PROF. DR. ZLATKO TRAJANOSKI**
Biocenter, Division for Bioinformatics, Medical University, Innsbruck
Integrating Biomolecular and Clinical Data for Cancer Research: Concepts and Challenges

**UNIV.-PROF. DR. OLIVER EICKELBERG**
CPC Comprehensive Pneumology Center, Munich
Mechanisms of Pulmonary Fibrosis: Need for an Integrated Approach

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**Part II: Applied Knowledge Management**

**UNIV.-PROF. DR. MICHAEL BERTHOLD**
KNIME.com AG, Constance
KNIME: Integrating Data, Tools, and Science

**ISAAC CANO, MSc**
Institut d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona
Data Integration and Inference: from Biobridge to Synergy

**DR. VOLKER STÜMPFLEN**
Helmholtz Center / Clueda UG, Munich
Do you know what’s in your patient records? -Intelligent Harvesting in Large Unstructured Data Collections

**UNIV.-PROF. DR. ULRICH MANSMANN**
Medical Division, Ludwig-Maximilian University, Munich
Enhancing Statistical Inference by Exploiting Knowledge Structures

**ANDREAS DANDER, MSc**
Biocenter, Division for Bioinformatics, Medical University, Innsbruck
Data Integration of Clinical and High-Throughput Data in Oncotyrol

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**Part III: Workshop - Practical know-how sessions**

**BIOMAX PRESENTATIONS**

Efficient Modeling of Biomedical Knowledge
Symposium

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May 3rd 2012
Munich, Germany