Einladung zum

BIOMETRISCHEN KOLLOQUIUM

Am **Mittwoch, 30. Jänner 2013** um **14:30 Uhr** (s.t.)

in der Informatik-Bibliothek (Ebene 3, Raum 88.03.806) des
Zentrums für Medizinische Statistik, Informatik und Intelligente Systeme (CeMSIIS)
der Medizinischen Universität Wien, Spitalgasse 23, 1090 Wien
(Plan siehe http://www.muw.ac.at/cemsiis/allgemeines/anschrift/)

Vortragender:

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PERSONALIZED MEDICINE
USING DNA BIOMARKERS

Wir freuen uns auf zahlreichen Besuch.

Gerhard Svolba   Franz König
Präsident   Sekretär

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Abstract:

Biomarkers are of increasing importance for personalized medicine, including diagnosis, prognosis, and targeted therapy of a patient. Their use is extremely diverse, and it varies from pharmacodynamics to treatment monitoring. The particular features of DNA biomarkers, such as single nucleotide polymorphisms (SNPs) are discussed.

Examples are provided for current use of DNA biomarkers in applications. Before a DNA biomarker or a set of DNA biomarkers is used in clinical routine for diagnosis, several phases of research need to be successfully passed. The phases for clinical trials for the validation of diagnostic and prognostic biomarkers are discussed in detail. Some DNA biomarkers and other biomarkers, such as DNA tumor biomarkers, are additionally intended to predict the likely response of a patient to a treatment in terms of efficacy and/or safety, and these are termed predictive biomarkers or, more generally, companion diagnostic tests.

The final part of this talk considers trial designs for these biomarkers in detail.