



## CE/MS-BASED CLINICAL PROTEOMICS AS A POWERFUL TOOL IN PERSONALIZED MEDICINE

*mosaiques diagnostics GmbH*

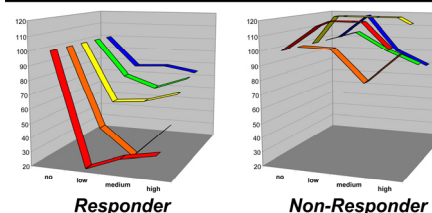
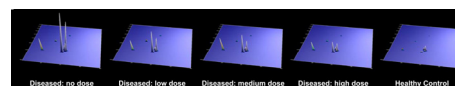
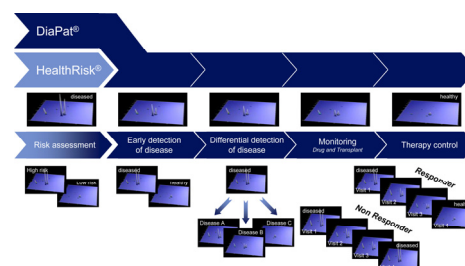
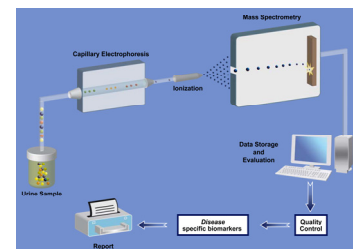


### BACKGROUND and BASICS

mosaiques' CE/MS technology enables analysis and evaluation of up to 6,000 polypeptides from **urine** within 60 minutes. The overall principle of this ground-breaking technology is the fact that **proteins are indispensable** for the function of cells and organs, and variations in protein composition are **indicative for (patho)physiological alterations**.

A multitude of diagnostic questions can be assessed by a single examination of an urine sample and utilized in

- **Health care and Laboratory medicine**, e.g. diagnosis, prognosis, monitoring
- **Drug development**, e.g. target discovery and validation, stratification of patient cohorts, monitoring of therapeutic efficacy (even for individual patients), and determination of drug-induced side effects
- **Functional food development**, e.g. efficacy testing



### CONCEPT and SOLUTION

**Diagnosis** is accomplished by highly specific and reproducible **patterns** of multiple simultaneously detected **bio-markers** from patients samples obtained in a

- **non invasive (urine)**, **risk free**, and **painless procedure** leading to
- **positive acceptance and compliance** during therapy and disease management

The approach allows **preterm diagnosis** and **recognition of predisposition** for clinically relevant acute and chronic diseases, enabling **early initiation of treatment** before clinical manifestation becomes evident and irreversible damage may occur.

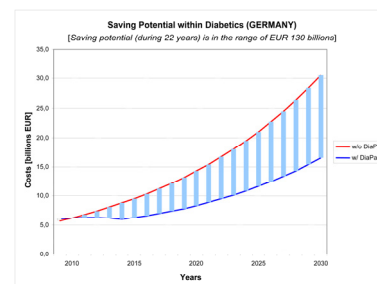


### STATUS and OUTLOOK

Beside non invasive diagnosis of life-threatening

- **cardiological, nephrological, and**
- **oncological diseases**

CE/MS technology introduces, not previously known, **saving potentials** for the respective national **Healthcare Providers**, by opening an early and precise detection method for chronic diseases, like **diabetic kidney disease** and associated comorbidities, such as **myocardial infarction** and **stroke**.



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