



Einladung zum Biometrischen Kolloquium

MARCO COLOMBO,

University of Edinburgh, Scotland

DISCOVERING BIOMARKERS OF PROGRESSION OF RENAL DISEASE IN TYPE 1 DIABETES

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ABSTRACT:

Clinical trials of drugs for renal progression have failed due to modest loss in renal function over the typical length of a trial. As a result there is interest in developing predictive biomarkers to enable oversampling of disease progressors into trials. Many individual biomarkers have been analysed and reported as associated with renal outcomes, however there have been few systematic attempts to harness the potential of high-dimensional biomarker assays for prediction.

This talk will discuss methods and approaches related to the process of biomarker discovery from high-dimensional sets of circulating biomarkers measured with high-throughput technologies. These issues will be illustrated in the context of discovery of biomarkers of rapid progression of diabetic chronic kidney disease, with reference to the Scottish Diabetes Research Network Type 1 Bioresource (SDRNT1BIO), a large cohort of patients with type 1 diabetes linked to electronic health data and where proteins, metabolites and tryptic peptides were measured in a subset of samples.