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Biomarker Discovery In  
Proteomics

**Statistical Methods  
For Biomarker  
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*data analysis solutions* **What is the Biomarker Discovery**

**Program?** Karsten Borgwardt -

Statistical Significance in

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~~omics statistical~~

~~integration with mixOmics~~

~~Kim Anh Le Cao (Webinar)~~

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~~Pushing the Sample Size of  
Biomarker Discovery Projects  
in Clinical Proteomics 1~~

~~Experimental Strategies for  
Biomarker Discovery and  
Development~~ *Biomarker*

*Selection* **Biomarker**

**Discovery in Personalized**

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**Medicine** ~~Biomarker Discovery~~  
~~for Cancer: Challenge~~  
~~#1 Comprehensive Biology~~  
~~from a Limited \u0026~~  
~~Difficult Sample~~ Network  
Analysis for Putative  
Biomarker Discovery and  
Method Validation *Biomarker*



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*Discovery: Metabolomics In*

*Differentiates Known Disease*

*Classifications of Prostate*

*Cancer ~~What is a Biomarker?~~*

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*Metabolomics* Understanding

Biomarkers Biomarkers and

Surrogate Endpoints in Drug

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~~Biomarkers And Why Are They~~

~~Important?~~ Discovering

Biomarkers for Early Cancer

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Mass Spectrometry-based

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Philip Britz McKibbin -  
Accelerated Data Workflows  
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Settings ~~Are you Exploiting  
Your Assumptions? Towards~~

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~~Effective Priors for~~

~~Biomarker Discovery and...~~

~~Quantitative Biology and~~

~~Biomarker Discovery without~~

~~Immunoassays Statistical~~

~~Methods For Biomarker~~

~~Discovery~~

It may be difficult to

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### Biomarker Discovery In

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obtain this degree of validation from high-throughput or large-scale proteomic assays, so a more productive strategy for classification might be to focus on the group comparison and discovery

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phase using the large-scale assays and then build predictive models using specific protein biomarkers measured using more quantitative and reproducible methods like enzyme linked immunosorbent



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assay (ELISA) or protein  
lysate arrays.

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Analysis, and Bioinformatics  
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## Statistical Methods For

Biomarker Discovery In  
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In this dissertation, our work aims for simplifying the process of biomarker discovery. First, we propose a regularization framework for removing the noisy and deleterious signals incurred during the DIA experiment.

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Next, we propose a permutationbased method for determining the most effective statistical method in discovering informative markers.

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### ~~Effective Protein Biomarker Discovery~~ Proteomics

the chances of identifying  
single or even combinations  
of protein biomarkers.

Surface-Enhanced Laser  
Desorption and Ionization  
(SELDI) is a proteomic

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technique that has been used  
for biomarker discovery  
(Srinivas et al., 2002).

However the current peak  
detection method used in  
SELDI (Fung and En-

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### ~~Biomarker Discovery in~~ ~~Proteomics~~

Surface-Enhanced Laser  
Desorption and Ionization  
(SELDI) is a promising  
proteomic technique for  
discovering biomarkers.  
However, the pre-processing

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of the raw data is still problematic. Integrating transcriptomic and proteomic data may enhance the search for biomarkers, but the current data integration approach results in the loss of large amounts of data.

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~~Statistical methods for  
biomarker discovery in  
proteomics~~

title = "Statistical methods  
for proteomic biomarker  
discovery based on feature  
extraction or functional

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Modeling Approaches",

abstract = "In recent years, developments in molecular biotechnology have led to the increased promise of detecting and validating biomarkers, or molecular markers that relate to

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various biological or  
medical outcomes.

~~Statistical methods for  
proteomic biomarker  
discovery ...~~

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Description. An Application  
to Diagnosis and Prognosis  
of ARDS Division of Cancer  
Proteomics

Biostatistics Department of  
Biostatistics, Vanderbilt  
University School of  
Medicine Cancer

Biostatistics Workshop April

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Discovery based on Feature

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Extraction or Functional In  
Modeling Approaches. Morris  
JS. In recent years,  
developments in molecular  
biotechnology have led to  
the increased promise of  
detecting and validating  
biomarkers, or molecular



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markers that relate to various biological or medical outcomes.

~~Statistical Methods for  
Proteomic Biomarker  
Discovery ...~~

Next, we propose a

*Page 33/55*

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## Statistical Methods For

permutation-based method for determining the most effective statistical method in discovering informative markers. Lastly, we propose an effective likelihood ratio-based discriminant statistic, which also has

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desirable asymptotic

properties, for directly  
finding all relevant markers  
with much lower false  
discovery rate than all the  
existing methods.

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## Statistical Methods For

### ~~Effective Protein Biomarker~~ ~~Discovery~~

### Proteomics

Motivation: Univariate statistical tests are widely used for biomarker discovery in bioinformatics. These procedures are simple, fast and their output is easily

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Biostatistics by biologists but they can only identify variables that provide a significant amount of information in isolation from the other variables.

~~Statistical interpretation~~

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~~of machine learning based~~

## Proteomics

•••  
multivariate statistical methods, which are evaluated in Chapter 6. Chapter 7 provides some business context for both biomarker discovery and the

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### Biomarker Discovery In

software available for the  
purpose of proteomic  
biomarker discovery. As well  
as providing a software  
pipeline for the  
identification of  
biomarkers, the project

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## Statistical Methods For Biomarker Discovery In ~~Development and Evaluation of Statistical Approaches in~~

...

Statistical methods for  
biomarker development are  
introduced according to  
three typical purposes of



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Molecular biomarkers: tumor subtype classification, early detection, and prediction of treatment response or prognosis of patients. Example codes for R program are provided as well for selected methods.

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~~Statistical Methods for  
Identifying Biomarkers from  
miRNA ...~~

Statistical methods play an important role in the discovery and validation of proteomic biomarkers. They

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are necessary in the planning of experiments, in the processing of raw signals, and in the final data analysis.

~~Statistical Aspects in  
Proteomic Biomarker~~

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### ~~Discovery . . .~~ Discovery In

Background: When combined with a clinical outcome variable, the size, complexity and nature of mass-spectrometry proteomics data impose great statistical challenges in

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the discovery of potential  
disease-associated  
biomarkers.

The purpose of  
this study was thus to  
evaluate the effectiveness  
of different statistical  
methods applied for urinary  
proteomic biomarker

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Discovery and different

methods of classifier

modelling in respect of the

diagnosis of coronary artery

disease in 197 study

subjects ...

~~Comparison of different~~

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### ~~Statistical Approaches In~~ ~~Urinary~~ . . .

If biomarker discovery is based on univariate statistics, such as a t-statistic, the pre-treatment method needs to be carried out globally on the complete

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### data matrix before Biomarker Discovery In statistical analysis. Proteomics

~~Integrated Chemometrics and  
Statistics to Drive  
Successful ...~~

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Proteomics Abstract Surface-Enhanced Laser Desorption and Ionization (SELDI) is a promising proteomic technique for discovering biomarkers. However, the pre-processing of the raw data is still problematic.

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### Statistical methods for biomarker discovery in proteomics

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However, after statistical

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analysis, the large majority of the background signal peaks are found in the middle of the S-plot and are not considered as potential biomarkers. Sometimes, due to the use of a low threshold, we must remove

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one or two false positive results manually at the extremity of the S-Plot, but this is a very low cost to improve our chances to discover interesting biomarkers.

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~~Biomarker discovery for~~

~~lysosomal storage disorders~~

Objective: To critically

review and illustrate

current methodological and

statistical considerations

for bladder cancer biomarker

discovery and evaluation.

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Methods: Original, review,  
and methodological articles,  
and editorials were reviewed  
and summarized. Results:  
Biomarkers may be useful at  
multiple stages of bladder  
cancer management: early ...

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