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Proteomics

Statistical Methods For Biomarker Discovery In Proteomics

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~~Biomarker Discovery,
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Karsten Borgwardt -
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Discovery:

Metabolomics

Differentiates Known

Disease Classifications

of Prostate Cancer

~~What is a Biomarker?~~

Seeking the Biomarkers

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Silencing by microRNAs

What is Metabolomics

Understanding

Biomarkers Biomarkers

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in Drug Development

~~What Are Biomarkers
And Why Are They~~

~~Important?~~ Discovering

Biomarkers for Early

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Expression Oncology

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at Genentech Webinar |

Metagenomics for

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Precision Medicine

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based Peptidomics for
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Philip Britz McKibbin -

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Pathway-Based*

*Analysis: A Systematic
Approach to Biomarker*

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Settings
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Assumptions? Towards
Effective Priors for
Biomarker Discovery
and... Quantitative
Biology and Biomarker
Discovery without
Immunoassays

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~~Statistical Methods For Biomarker Discovery~~

It may be difficult to 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 phase using the large-scale assays

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and then build predictive models using specific protein biomarkers measured using more quantitative and reproducible methods like enzyme linked immunosorbent assay (ELISA) or protein lysate arrays.

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

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Introduction Biomarker
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Methods for

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Methods for Multiple

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~~Using Mass ...~~

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Spectrometry. In
Statistical Advances in
the Biomedical
Sciences: Clinical
Trials, Epidemiology,
Survival Analysis, and
Bioinformatics (pp.
465-486).

~~Statistical Methods for~~

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~~Biomarker Discovery
Using Mass ...~~

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. Next, we propose a

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permutationbased
method for determining
the most effective
statistical method in
discovering informative
markers.

~~Statistical Methods for
Effective Protein
Biomarker Discovery~~
the chances of
identifying single or
even combinations of
protein biomarkers.

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Surface-Enhanced Laser Desorption and Ionization (SELDI) is a proteomic technique that has been used for biomarker discovery (Srinivas et al., 2002). However the current peak detection method used in SELDI (Fung and En-

~~Statistical Methods for
Biomarker Discovery in~~

Where To Download Proteomics

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. Integrating transcriptomic and proteomic data may enhance the search for

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biomarkers, but the current data integration approach results in the loss of large amounts of data.

~~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 various
biological or medical
outcomes.

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~~proteomic biomarker
discovery ...~~

Statistical Methods for
Biomarker Discovery.

Description. An In

Application to
Diagnosis and Prognosis

of ARDS Division of

Cancer Biostatistics

Department of

Biostatistics, Vanderbilt

University School of

Medicine Cancer

Biostatistics Workshop

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April 17th, 2009

Acknowledgement
Categories.

~~Statistical Methods for
Biomarker Discovery—
Art~~

Statistical Methods for
Proteomic Biomarker
Discovery based on
Feature Extraction or
Functional Modeling
Approaches. Morris JS.

In recent years,

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developments in
molecular
biotechnology have led
to the increased promise
of detecting and
validating biomarkers,
or molecular markers
that relate to various
biological or medical
outcomes.

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

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Next, we propose a permutationbased 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 desirable asymptotic properties, for directly finding all relevant markers with

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much lower false
discovery rate than all
the existing methods.

~~Statistical Methods for
Effective Protein
Biomarker Discovery~~

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

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

~~Statistical interpretation of machine learning-based ...~~

multivariate statistical methods, which are evaluated in Chapter 6.

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Chapter 7 provides some business context for both biomarker discovery and the statistical analysis 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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~~Development and
Evaluation of Statistical
Methods For
Approaches in ...~~

Statistical methods for
biomarker development
are introduced
according to three
typical purposes of
molecular biomarkers:
tumor subtype
classification, early
detection, and prediction
of treatment response or
prognosis of patients.

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Example codes for R program are provided as well for selected methods.

Discovery In

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

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

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

~~Statistical Aspects in
Proteomic Biomarker
Discovery ...~~

Background: When
combined with a clinical
outcome variable, the
size, complexity and
nature of mass-

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spectrometry proteomics data impose great statistical challenges in 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 discovery

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and different methods of classifier modelling in respect of the diagnosis of coronary artery disease in 197 study subjects ...

~~Comparison of different statistical approaches for urinary ...~~

If biomarker discovery is based on univariate statistics, such as a t-statistic, the pre-

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treatment method needs
to be carried out
globally on the complete
data matrix before
statistical analysis.

Proteomics

~~Integrated~~

~~Chemometrics and~~

~~Statistics to Drive~~

~~Successful ...~~

Statistical Methods for
Biomarker Discovery in
Proteomics Abstract

Surface-Enhanced Laser

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Desorption and Ionization (SELDI) is a promising proteomic technique for discovering biomarkers. However, the pre-processing of the raw data is still problematic. Statistical methods for biomarker discovery in proteomics

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However, after statistical 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 one or two false positive results manually at the

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extremity of the S-Plot,
but this is a very low
cost to improve our
chances to discover
interesting biomarkers.

~~Biomarker discovery for
lysosomal storage
disorders~~

Objective: To critically
review and illustrate
current methodological
and statistical
considerations for

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bladder cancer
biomarker discovery
and evaluation.

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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