

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/21012> holds various files of this Leiden University dissertation

Author: Mostovenko, Ekaterina

Title: Towards high throughput and spatiotemporal proteomics : analytical workflows and quantitative label-free mass spectrometry

Issue Date: 2013-06-25

Attention! For the correct table of contents please refer to this page.

General Introduction	9
 Sample Preparation for Proteomics	
Chapter 1 Comparison of Peptide and Protein Fractionation Methods in Proteomics	25
Chapter 2 Protein Fractionation for Quantitative Plasma Proteomics by Semi-Selective Precipitation	47
 Mass Spectrometry and Bioinformatics	
Chapter 3 A Novel Mass Spectrometry Cluster for High-Throughput Quantitative Proteomics	63
Chapter 4 Cloud Parallel Processing of Tandem Mass Spectrometry-based Proteomics	87
 Initial Applications	
Chapter 5 Protein Expression Dynamics during Escherichia coli Glucose-Lactose Diauxie	109
Chapter 6 Spatio-Temporal Proteomics of Cardiomyocyte Differentiation	125
General Discussion	143
 Addendum	
Summary	152
Nederlandse Samenvatting	156
Acknowledgements	161
Curriculum Vitae	163
List of Publications	164