
Contents

<i>Preface</i>	<i>v</i>
<i>Contributors</i>	<i>ix</i>
1 Vascular Proteomics <i>Maria G. Barderas, Fernando Vivanco, and Gloria Alvarez-Llamas</i>	1
2 Laser Microdissection and Saturation Labeling DIGE Method for the Analysis of Human Arteries <i>Fernando de la Cuesta, Gloria Alvarez-Llamas, Aroa S. Maroto, Maria G. Barderas, and Fernando Vivanco</i>	21
3 Use of TOF-SIMS in Vascular Biology <i>Sebastián Mas, Raúl Pérez, and Jesús Egido</i>	33
4 Proteomic Analysis of Vascular Smooth Muscle Cells with S- and R-Enantiomers of Atenolol by iTRAQ and LC-MS/MS <i>Jianhua Zhang, Jiahua Shi, Benedict Jia Hong Lee, Liwei Chen, Kee Yang Tan, Xiaoling Tang, Jane Yi Lin Tan, Xiang Li, Huixing Feng, and Wei Ning Chen</i>	45
5 Phosphoproteomic Analysis of Aortic Endothelial Cells Activated by Oxidized Phospholipids <i>Alejandro Zimman, Judith A. Berliner, and Thomas G. Graeber</i>	53
6 Characterization of Membrane and Cytosolic Proteins of Erythrocytes <i>Gloria Alvarez-Llamas, Fernando de la Cuesta, Maria G. Barderas, Irene Zubiri, Maria Posada-Ayala, and Fernando Vivanco</i>	71
7 Characterization and Analysis of Human Arterial Tissue Secretome by 2-DE and nLC-MS/MS. <i>Fernando de la Cuesta, Maria G. Barderas, Enrique Calvo, Irene Zubiri, Aroa S. Maroto, Juan Antonio Lopez, Fernando Vivanco, and Gloria Alvarez-Llamas</i>	81
8 Identification of Novel Biomarkers of Abdominal Aortic Aneurysms by 2D-DIGE and MALDI-MS from AAA-Thrombus-Conditioned Media. <i>Roxana Martinez-Pinna, Juan Antonio Lopez, Priscila Ramos-Mozo, Luis M. Blanco-Colio, Emilio Camafeita, Enrique Calvo, Olivier Meilhac, Jean Baptiste Michel, Jesús Egido, and José Luis Martin-Ventura</i>	91
9 Metabolites Secreted by Human Atherothrombotic Aneurysm <i>Michał Ciborowski and Coral Barbas</i>	103
10 Quantitative Analysis of Apolipoproteins in Human HDL by Top-Down Differential Mass Spectrometry. <i>Matthew T. Mazur and Helene L. Cardasis</i>	115

11	Quantitative Proteomics Analysis of High-Density Lipoproteins by Stable ^{18}O -Isotope Labeling	139
	<i>Elena Burillo, Jesus Vazquez, and Inmaculada Jorge</i>	
12	Unraveling Biomarkers of Abdominal Aortic Aneurisms by iTRAQ Analysis of Depleted Plasma	157
	<i>Enrique Calvo, Roxana Martínez-Pinna, Priscila Ramos-Mozo, C. Pastor-Vargas, Emilio Camafeita, Jesús Egido, José Luis Martín-Ventura, and Juan Antonio Lopez</i>	
13	Absolute Quantitation of Proteins in Human Blood by Multiplexed Multiple Reaction Monitoring Mass Spectrometry.	167
	<i>Andrew J. Percy, Andrew G. Chambers, Carol E. Parker, and Christoph H. Borchers</i>	
14	Multiple Reaction Monitoring (MRM) of Plasma Proteins in Cardiovascular Proteomics	191
	<i>Verónica M. Dardé, Maria G. Barderas, and Fernando Vivanco</i>	
15	Proteomic Analysis of Plasma of Patients with Left Ventricular Remodeling After Myocardial Infarction: Usefulness of SELDI-TOF.	201
	<i>Florence Pinet</i>	
16	Proteomic Analysis of Urinary Exosomes in Cardiovascular and Associated Kidney Diseases by Two-Dimensional Electrophoresis and LC-MS/MS	209
	<i>Irene Zubiri, Fernando Vivanco, and Gloria Alvarez-Llamas</i>	
	<i>Index</i>	221



<http://www.springer.com/978-1-62703-404-3>

Vascular Proteomics

Methods and Protocols

Vivanco, F. (Ed.)

2013, XI, 230 p., Hardcover

ISBN: 978-1-62703-404-3

A product of Humana Press