
Contents

1	Proteogenomic Tools and Approaches to Explore Protein Coding Landscapes of Eukaryotic Genomes	1
	Dhirendra Kumar and Debasis Dash	
2	Next Generation Sequencing Data and Proteogenomics	11
	Kelly V. Ruggles and David Fenyo	
3	Proteogenomics: Key Driver for Clinical Discovery and Personalized Medicine.....	21
	Ruggero Barbieri, Victor Guryev, Corry-Anke Brandsma, Frank Suits, Rainer Bischoff, and Peter Horvatovich	
4	Identification of Small Novel Coding Sequences, a Proteogenomics Endeavor	49
	Volodimir Olexiouk and Gerben Menschaert	
5	Using Proteomics Bioinformatics Tools and Resources in Proteogenomic Studies	65
	Marc Vaudel, Harald Barsnes, Helge Ræder, and Frode S. Berven	
6	Mutant Proteogenomics.....	77
	Ákos Végvári	
7	Proteogenomic Analysis of Single Amino Acid Polymorphisms in Cancer Research.....	93
	Alba Garin-Muga, Fernando J. Corrales, and Victor Segura	
8	Developments for Personalized Medicine of Lung Cancer Subtypes: Mass Spectrometry-Based Clinical Proteogenomic Analysis of Oncogenic Mutations.....	115
	Toshihide Nishimura and Haruhiko Nakamura	
9	Proteogenomics for the Study of Gastrointestinal Stromal Tumors.....	139
	Tadashi Kondo	

10 Proteogenomics for the Comprehensive Analysis of Human Cellular and Serum Antibody Repertoires.....	153
Paula Díez and Manuel Fuentes	
11 Antibody-Based Proteomics.....	163
Christer Wingren	
Index.....	181

Proteogenomics

Végvári, Á. (Ed.)

2016, VIII, 184 p. 57 illus., 55 illus. in color., Hardcover

ISBN: 978-3-319-42314-2