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## Helicobacter proteome

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	2.4.3 Criteria for promising antigen candidates2.4.4 Identification of protective antigens based on multiple criteria; 2.5 Concluding remarks; 3 Towards a comprehensive understanding of Bacillus subtilis cell physiology by physiological proteomics; 3.1 Introduction; 3.2 Subproteomes vs. the total theoretical proteome; 3.3 The vegetative proteome of growing cells; 3.4 Proteomes of nongrowing cells - the adaptational network; 3.5 Proteomic signatures - tools for microbial physiology and their practical application; 3.6 Transcriptomics vs. proteomics - towards a second generation of proteomics 3.7 The interactome3.8 The secretome; 3.9 Post-translational modifications; 3.10 Protein quality control/protein degradation at a proteomic scale; 3.11 Gene expression network - horizontal and vertical approach; 3.12 Concluding remarks; 4 Web-accessible proteome databases for microbial research; 4.1 Introduction; 4.2 Materials and methods; 4.2.1 Data generation and data storage; 4.2.2 Software tools; 4.3 Results and discussion; 4.3.1 Data management, analysis and presentation; 4.3.2 2D-PAGE database; 4.3.3 ICAT-LC/MS database; 4.3.4 FUNC_CLASS database; 4.3.5 Data analysis and visualization 4.4 Concluding remarks5 A targeted proteomics approach to the rapid identification of bacterial cell mixtures by matrix-assisted laser desorption/ionization mass spectrometry; 5.1 Introduction; 5.2 Materials and methods; 5.2.1 Chemicals; 5.2.2 Bacillus strains; 5.2.3 Vegetative cell digestion; 5.2.4 MALDI-TOF MS and unimolecular decomposition product ion analysis; 5.2.5 Database searches and identification of Bacillus species; 5.3 Results and discussion; 5.3.1 Onprobe tryptic digestion of bacterial cells; 5.3.1.1 Bacillus subtilis 168; 5.3.1.2 Bacillus globigii and sphaericus 14577 5.3.1.3 Bacillus cereus Tand anthracis Sterne
Sommario/riassunto	Containing proven, high-quality research articles selected from the popular Proteomics journal, this is a current overview of the latest research into the proteomics analysis of microbial pathogens as well as several review articles.