



A Proteomic Approach for Bordetella Pertussis

By EMRAH ALTINDIS

VDM Verlag Mai 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x7 mm. Neuware - The genus *Bordetella* contains several pathogenic species generally associated with upper respiratory tract infections in warm-blooded animals. *Bordetella pertussis* is the etiologic agent of whooping cough. Whooping cough is presently one of the ten most common causes of death from infectious diseases and reported by the World Health Organisation (WHO) to cause 50 million cases and 350000 deaths worldwide per year. The term proteome, in analogy to the term genome, was coined to describe the complete set of proteins that an organism has produced under a defined set of conditions. Proteomics has been used to identify novel bacterial vaccine candidates against several human pathogens. Much of information about immunogenic component can be derived from proteomics coupled to Western blotting, namely immunoproteomics. In the present study, we report first immunoproteomics analysis to identify candidate antigens of *B. pertussis* for vaccine development. Different sera from mice, which were immunized or challenged with *B. pertussis*, were analyzed for reactivity by Western blot against whole cell extracts of *B. pertussis* Tohama and Saadet strains separated by 2-DE. 120 pp. Englisch.



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