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COMPARISON AND EVALUATION OF MODELS FOR PREDICTING IMMUNOGENICITY OF VIRAL ANTIGENS OF THE PMHC COMPLEX FROM MURINE MODELS

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Due to the growing importance of immunotherapy, especially in the treatment of cancer or designing personalized vaccines, there is a need to understand the mechanisms of the adaptive immune response. Based on the available data on the immunogenic response of T cells (CD8 +) to viral peptides presented on the molecules of the mouse histocompatibility complex (MHC) class I, models of predicting immunogenicity were developed using methods such as: Decision Tree, Support Vector Machine and Extreme Gradient Boosting. Models were compared and validated to choose the best method of predicting immunogenicity.