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(54) Title: METHODS FOR PREDICTING THE USEFULNESS OF DISEASE SPECIFIC AMINO ACID MODIFICATIONS FOR IMMUNOTHERAPY

(57) Abstract: The present invention relates to methods for predicting whether peptides or polypeptides comprising disease specific amino acid modifications, in particular tumor-associated neo- antigens, comprise epitopes, in particular tumor-associated neo-epitopes, which are useful for immunotherapy such as for vaccination. The methods of the invention may be used, in particular, for the provision of vaccines which are specific for a patient's tumor and, thus, in the context of personalized cancer vaccines.