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(54) Title: NEOANTIGEN IDENTIFICATION, MANUFACTURE, AND USE

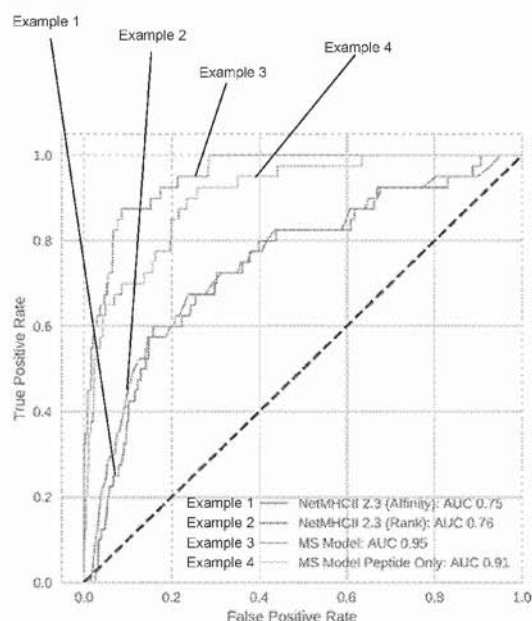


FIG. 13J

(57) Abstract: Disclosed herein is a system and methods for determining the alleles, neoantigens, and vaccine composition as determined on the basis of an individual's tumor mutations. Also disclosed are systems and methods for obtaining high quality sequencing data from a tumor. Further, described herein are systems and methods for identifying somatic changes in polymorphic genome data. Finally, described herein are unique cancer vaccines.