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(54) Title: BIOMARKERS FOR CANCER THERAPY USING MDM2 ANTAGONISTS

(57) Abstract: The invention provides biomarkers to predict effective treatment of cancer using an MDM2 antagonist. Identifying one or more of these biomarkers in a cancer patient allows a determination to be made whether the patient's cancer is likely to be successfully treated using an MDM2 antagonist. Accordingly, the invention relates generally to a companion diagnostic for MDM2 antagonist therapy. The biomarkers are: (i) BAP1; and/or (ii) CDKN2A; and/or (iii) one, two, three, four, five, six, seven, eight, nine, ten or more of: CXCL10, CXCL11, RSAD2, MX1, BATF2, IFI44L, IFITM1, ISG15, CMPK2, IFI27, CD74, IFIH1, CCRL2, IFI44, HERC6, ISG20, IFIT3, HLA-C, OAS1, IFI35, IRF9, EPSTI1, USP18, BST2, CSF1, C1S, DHX58, TRIM14, OASL, IRF7, LGALS3BP, DDX60, LAP3, LAMP3, PARP12, PARP9, SP110, PLSCR1, WARS, STAT1, IRF3, IRF5, MSC, JUN, SPI1, IRF1, COMMD3-BMI1, STAT2, RUNX3, SREBF1, FLI1 and BRCA1.



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