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(54) Title: METHODS OF DIAGNOSING AND TREATING CANCER

(57) Abstract: The invention relates to methods of determining an appropriate cancer therapy for a subject based on intratumoral expression levels of Ribonucleotide Reductase M1 (RRM1) and thymidylate synthase (TS) gene expression, as well as to methods of predicting clinical outcome (prognosis) based on cytoplasmic levels of TS protein. Compositions and kits useful for the methods are also provided.