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(54) Title: METHODS OF TREATING CANCER

(57) Abstract: Methods of treating cancers comprising *FGFR1* gene amplification, FGFR1 overexpression, FGFR3 overexpression, *FGFR3* amplification, FGF2 overexpression, and/or *FGF2* gene amplification are provided. In some embodiments, the methods comprise administering a fibroblast growth factor receptor 1 (FGFR1) extracellular domain (ECD) and/or an FGFR1 ECD fusion molecule. In some embodiments, the methods comprise administering a FGFR1 ECD and/or an FGFR1 ECD fusion molecule in combination with at least one additional therapeutic agent. In some embodiments, methods of treating cancers comprising administering a FGFR1 ECD and/or an FGFR1 ECD fusion molecule in combination with at least one chemotherapeutic agent are provided.