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- (71) **Applicant:** GERON CORPORATION [US/US]; 919 E. Hillsdale Blvd., Suite 250, Foster City, California 94404 (US).
- (72) **Inventors:** KHERA, Manoj Kumar; Plot No RZ-6, (B-6), Upper Ground Floor, Om Vihar, Uttam Nagar, 110059 New Delhi (IN). SONI, Ajay; Plot No RZ-6, (B-6), Upper Ground Floor, Om Vihar, Uttam Nagar, 110059 New Delhi (IN).

(74) **Agent:** NG, Rudy J.; 201 Redwood Shores Parkway, Suite 200, Redwood City, California 94065 (US).

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(54) **Title:** TELOMERASE INHIBITOR COMPOUNDS

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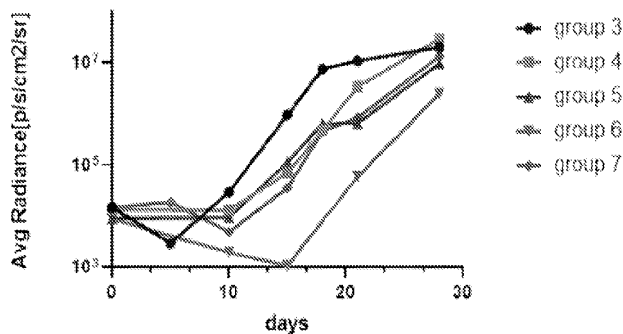


FIG. 7

(57) **Abstract:** Provided are telomerase inhibitor compounds. Some compounds include a lactone or lactam group that is covalently bonded to a phenyl ring, which is itself bonded to a pyrazole group. In other cases, a sulfonamide-containing moiety is covalently bonded to a phenyl ring, which is itself bonded to a pyrazole group. In some embodiments, the telomerase inhibitor compound has a vinyl sulfonamide group bonded to an amide moiety and an aromatic group. In other cases, the inhibitor compound has an isothiazolidine 1,1-dioxide core that is bonded to a phenyl group. Aspects of the invention also include pharmaceutical compositions comprising the subject telomerase inhibitor compounds, as well as methods of treating telomerase-related diseases or conditions.

[Continued on next page]

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