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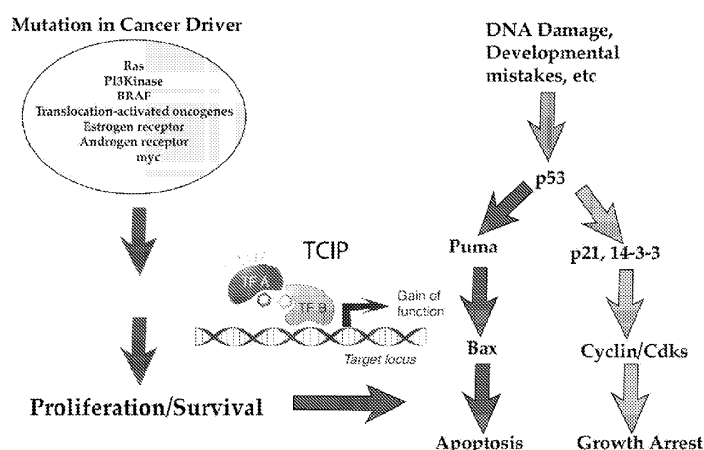
(71) Applicant: **THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY** [US/US]; Office of the General Counsel, Building 170, 3rd Floor, Main Quad, P.O. Box 20386, Stanford, California 94305-2038 (US).

(72) Inventors: **CRABTREE, Gerald R.**; Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **GRAY, Nathanael**; Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **GOURISANKAR, Sai**; Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **KROKHOTIN, Andrey**; Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **JI, Wenzhi**; Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **SAROTT, Roman**; Stanford Office of Technology Licens-

(54) Title: COMPOSITIONS, SYSTEMS, AND METHODS FOR MODULATING A TARGET GENE

FIG. 20

TCIPs produce a gain of function by diverting signals from the cancer driver to the cell death pathway



(57) Abstract: Methods of regulating expression of a target gene in a cell are provided. Aspects of the methods contacting the cell with a compound having a first moiety covalently linked to a second moiety, wherein: (i) the first moiety exhibits specific binding to a first endogenous protein; (ii) the second moiety exhibits specific binding to a second endogenous protein distinct from the first endogenous protein; and (iii) upon contacting the cell, the first endogenous protein and the second endogenous protein are spatially complexed to each other via the compound to yield a gain-of-function in the cell and thereby activate a process not normally controlled by either of the first and second endogenous proteins. Wherein the first moiety targets BCL-6; and the second moiety targets any one of estrogen receptors, androgen receptors, BRD4, or cyclin dependent kinase.

[Continued on next page]

ing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **ZHANG, Tinghu**: Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **KARIM, Basel**: Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **CHANG, Chiung-Ying**: Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US). **KIM, Samuel H.**: Stanford Office of Technology Licensing, 415 Broadway Street, 2nd Floor, MC8854, Redwood City, California 94063 (US).

(74) **Agent: FIELD, Bret E.**: 201 Redwood Shores Parkway, Suite 200, Redwood City, California 94065 (US).

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