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(71) Applicants and
(72) Inventors: **BOGOCH, Samuel** [CA/US]; 49 East 91st Street, New York, New York 10028 (US). **BOGOCH, Elenore, S.** [US/US]; 49 East 91st Street, New York, New York 10028 (US). **BOGOCH, Samuel, Winston** [CA/US]; 429 62nd Street, Oakland, California 94609 (US). **BORSANYI, Anne-Elenore, B.** [CA/US]; 122 Carlton Street, Brookline, Massachusetts 02446 (US).

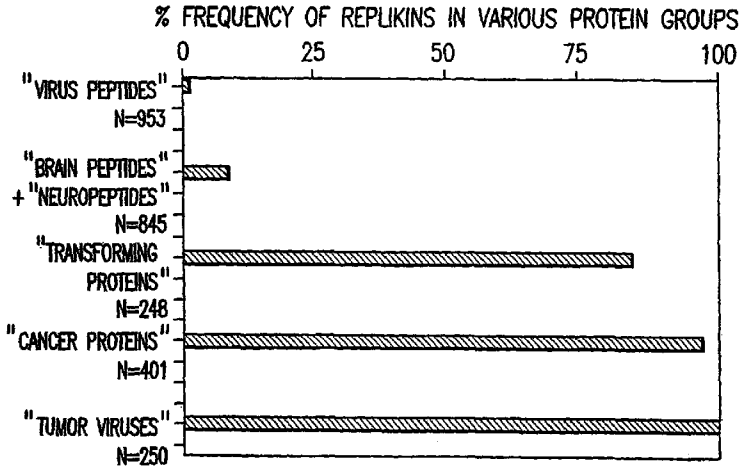
(74) Agents: **WONG, King, L.** et al.; Kenyon & Kenyon, 1500 K Street, NW, Suite 700, Washington, District Of Columbia 20005-1256 (US).

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[Continued on next page]

(54) Title: REPLIKIN PEPTIDES AND USES THEREOF



(57) Abstract: The present invention provides isolated influenza peptides and nucleic acid sequences and methods of identifying said influenza peptides and nucleic acid sequences having a pattern of substitution of amino acids or nucleic acids in highly conserved Replikin and Replikin Scaffold sequences that is predictive of rapid replication and virulence. Methods of predicting virulence in emerging influenza strains are provided comprising identifying peptides and nucleic acid sequences having the predictive pattern of substitution.

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