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(71) Applicant *(for all designated States except US)*: **UNIVERSITY OF WASHINGTON THROUGH ITS CENTER FOR COMMERCIALIZATION** [US/US]; 4311 11th Avenue NE, Suite 500, Seattle, WA 98105 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BAKER, David** [US/US]; 2553 22nd Avenue East, Seattle, WA 98112 (US). **WHITEHEAD, Timothy, A.** [US/US]; 1608 Wealthy Street SE, East Grand Rapids, MI 49506 (US). **FLEISHMAN, Sarel** [IL/IL]; HaOgen 1 #26, Ness Ziona (IL).

(74) Agent: **OSLICK, Sherri, L.**; McDonnell Boehnen Hulbert & Berghoff LLP, 300 South Wacker Drive, Suite 3100, Chicago, IL 60606 (US).

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(54) Title: POLYPEPTIDES FOR TREATING AND/OR LIMITING INFLUENZA INFECTION

(57) Abstract: The present invention provides polypeptides according to the general formulas disclosed herein, which recognize and are strong binders to Influenza A hemagglutinin and can be used, for example, to treat and/or limit development of an influenza infection. The present invention further provides isolated nucleic acids encoding the polypeptides of the invention, recombinant expression vectors comprising the nucleic acids encoding the polypeptides of the invention operatively linked to a suitable control sequence, and recombinant host cells comprising the recombinant expression vectors of the invention. The present invention also provides antibodies that selectively bind to the polypeptides of the invention, and pharmaceutical compositions comprising one or more polypeptides according to the invention and a pharmaceutically acceptable carrier. Additionally, the present invention provides methods for treating and/or limiting an influenza infection, methods for diagnosing an influenza infection, or monitoring progression of an influenza infection, methods for identifying candidate influenza vaccines, and methods for identifying candidate compounds for treating, limiting, and/or diagnosing influenza infection.