(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 May 2007 (10.05.2007)

PCT

(10) International Publication Number
WO 2007/052165 A3

(51) International Patent Classification:
A61K 39/00 (2006.01) *C07K 14/18* (2006.01)

(21) International Application Number:
PCT/IB2006/003931

(22) International Filing Date: 17 October 2006 (17.10.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/250,616 17 October 2005 (17.10.2005) US

(71) Applicant *(for all designated States except US)*: **INSTITUT PASTEUR** [FR/FR]; 28, rue du Docteur-Roux, F-75015 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CHARNEAU, Pierre** [FR/FR]; 6, bis rue des Ecoles, F-75005 Paris (FR). **DESPRES, Philippe** [FR/FR]; 8 Place De La Liberté, F-92250 La Garenne Colombes (FR).

(74) Agent: **CABINET, ORES**; 36, rue de St. Pétersbourg, F-75008 Paris (FR).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*
— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

(88) Date of publication of the international search report:
25 October 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2007/052165 A3

(54) Title: A LENTIVIRAL VECTOR-BASED VACCINE

(57) Abstract: Methods of eliciting humoral responses, methods of immunization, and methods of vaccination using lentiviral vector are disclosed. Additionally, immunogenic compositions and vaccines for West Nile Virus are disclosed.