



(51) International Patent Classification:

A61K 31/137 (2006.01) *A61K 31/42* (2006.01)
A61K 31/138 (2006.01) *A61K 31/64* (2006.01)
A61K 31/185 (2006.01) *A61P 25/16* (2006.01)
A61K 31/195 (2006.01)

(21) International Application Number:

PCT/EP2013/054026

(22) International Filing Date:

28 February 2013 (28.02.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/EP2012/053565	1 March 2012 (01.03.2012)	EP
PCT/EP2012/053568	1 March 2012 (01.03.2012)	EP
PCT/EP2012/053570	1 March 2012 (01.03.2012)	EP
12306063.4	5 September 2012 (05.09.2012)	EP
61/696,992	5 September 2012 (05.09.2012)	US

(71) Applicant: **PHARNEXT** [FR/FR]; 11 rue des Peupliers,
F-92130 Issy Les Moulineaux (FR).

(72) Inventors: **COHEN, Daniel**; 61 avenue des Courlis, F-
78110 Le Vésinet (FR). **NABIROCHKIN, Serguei**; 49
avenue de Sully Prud'homme, F-92290 Châtenay Malabry
(FR). **CHUMAKOV, Ilya**; 691 rue de la Noue, F-77000
Vaux le Pénil (FR). **HAJJ, Rodolphe**; 1 bis rue Raymond
Greban, F-78100 St Germain en Laye (FR).

(74) Agents: **BECKER, Philippe** et al.; Becker & Associés, 25
rue Louis Le Grand, F-75002 Paris (FR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
DO, 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, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(54) Title: NEW THERAPEUTIC APPROACHES FOR TREATING PARKINSON'S DISEASE

(57) Abstract: The present invention relates to compositions and methods for the treatment of Parkinson's disease and related disorders. More specifically, the present invention relates to novel combinatorial therapies of Parkinson's disease and related disorders targeting the alpha-synuclein aggregation network. In particular, the invention relates to compounds which, alone or in combination(s), can effectively protect neuronal cells from alpha-synuclein aggregates. The invention also relates to methods of producing a drug or a drug combination for treating Parkinson's disease and to methods of treating Parkinson's disease or a related disorder.

