



(11)

EP 3 323 885 B8

(12)

CORRECTED EUROPEAN PATENT SPECIFICATION

(15) Correction information:

Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(51) Int Cl.:

C12N 7/04 (2006.01) **C07K 19/00** (2006.01)
C12N 15/62 (2006.01) **A61K 39/00** (2006.01)
A61K 39/385 (2006.01) **A61P 25/28** (2006.01)
C12N 15/70 (2006.01) **C12R 1/93** (2006.01)

(48) Corrigendum issued on:

05.05.2021 Bulletin 2021/18

(86) International application number:

PCT/CN2016/087643

(45) Date of publication and mention
of the grant of the patent:

24.03.2021 Bulletin 2021/12

(87) International publication number:

WO 2017/008638 (19.01.2017 Gazette 2017/03)

(21) Application number: **16823785.7**

(22) Date of filing: **29.06.2016**

(54) **CHIMERIC NOROVIRUS P PARTICLE AND PREPARATION AND USE THEREOF**

CHIMÄRE NOROVIRUS-P-PARTIKEL UND HERSTELLUNG UND VERWENDUNG DAVON
PARTICULE P DE NOROVIRUS CHIMÉRIQUE AINSI QUE SA PRÉPARATION ET SON
UTILISATION

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

• YU, Xianghui
Changchun
Jilin 130012 (CN)

• FU, Lu
Changchun
Jilin 130012 (CN)

• LI, Yingnan
Changchun
Jilin 130012 (CN)

(30) Priority: **15.07.2015 CN 201510415556**

(43) Date of publication of application:

23.05.2018 Bulletin 2018/21

(73) Proprietors:

- **Changchun Bcht Biotechnology Co.**
Jilin 130012 (CN)
- **Jilin University**
Changchun, Jilin 130012 (CN)

(74) Representative: **Gill Jennings & Every LLP**
The Broadgate Tower
20 Primrose Street
London EC2A 2ES (GB)

(72) Inventors:

- **KONG, Wei**
Changchun
Jilin 130012 (CN)
- **WU, Hui**
Changchun
Jilin 130012 (CN)
- **JIANG, Chunlai**
Changchun
Jilin 130012 (CN)

(56) References cited:

WO-A2-2006/112553 CN-A- 1 504 240
CN-A- 101 538 558 CN-A- 102 272 301

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 3 323 885 B8

- C. WIESSNER ET AL: "The Second-Generation Active A Immunotherapy CAD106 Reduces Amyloid Accumulation in APP Transgenic Mice While Minimizing Potential Side Effects", THE JOURNAL OF NEUROSCIENCE, vol. 31, no. 25, 22 June 2011 (2011-06-22) , pages 9323-9331, XP055541157, US ISSN: 0270-6474, DOI: 10.1523/JNEUROSCI.0293-11.2011
- MING TAN ET AL: "Norovirus P particle: a subviral nanoparticle for vaccine development against norovirus, rotavirus and influenza virus", NANOMEDICINE, vol. 7, no. 6, 1 June 2012 (2012-06-01), pages 889-897, XP055541116, GB ISSN: 1743-5889, DOI: 10.2217/nnm.12.62
- LI YINGNAN ET AL: "Establishment of a novel method without sequence modification for developing NoV P particle-based chimeric vaccines", PROTEIN EXPRESSION AND PURIFICATION, vol. 121, 22 June 2011 (2011-06-22), pages 73-80, XP029465982, ISSN: 1046-5928, DOI: 10.1016/J.PEP.2016.01.003
- LU FU ET AL: "Norovirus P particle-based active A[beta] immunotherapy elicits sufficient immunogenicity and improves cognitive capacity in a mouse model of Alzheimer's disease", SCIENTIFIC REPORTS, vol. 7, no. 1, 1 December 2017 (2017-12-01), XP055541106, DOI: 10.1038/srep41041
- FU, LU ET AL.: 'Norovirus P particle: an Excellent Vaccine Platform for Antibody Production Against Alzheimer's Disease' IMMUNOLOGY LETTERS vol. 168, 05 September 2015, ISSN 0165-2478 pages 22 - 30, XP055344814
- TAN, MING ET AL.: 'Norovirus P Particle, a Novel Platform for Vaccine Development and Antibody Production' JOURNAL OF VIROLOGY vol. 85, no. 2, 31 January 2011, ISSN 0022-538X pages 753 - 764, XP002669772
- FENG, GAIFENG ET AL.: 'Prokaryotic Expression and Immunogenicity of The Chimeric HBcAg Containing Abeta1-15' JOURNAL OF CENTRAL SOUTH UNIVERSITY (MEDICAL SCIENCES) vol. 37, no. 3, 01 January 2012, pages 290 - 295, XP055509188 DOI: 10.3969/J.ISSN.1672-7347.2012.03.014