



(11) **EP 4 223 887 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71

(48) Corrigendum issued on:
22.11.2023 Bulletin 2023/47

(43) Date of publication:
09.08.2023 Bulletin 2023/32

(21) Application number: **21816304.6**

(22) Date of filing: **01.10.2021**

(51) International Patent Classification (IPC):
C12Q 1/6883 ^(2018.01) **G01N 33/50** ^(2006.01)
G01N 33/569 ^(2006.01) **G01N 33/68** ^(2006.01)

(52) Cooperative Patent Classification (CPC):
C12Q 1/6883; G01N 33/56983; C12Q 2600/118;
C12Q 2600/158; C12Q 2600/178; G01N 2333/165;
G01N 2800/52; Y02A 50/30

(86) International application number:
PCT/JP2021/036525

(87) International publication number:
WO 2022/071601 (07.04.2022 Gazette 2022/14)

(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
Designated Extension States:
BA ME
Designated Validation States:
KH MA MD TN

(30) Priority: **02.10.2020 JP 2020168107**

(71) Applicants:
• **ISM Co., Ltd.**
Tokyo 1020082 (JP)
• **Miyato, Mitsuru**
Kanagawa 2510052 (JP)

• **Ochiya, Takahiro**
Tokyo 1040053 (JP)

(72) Inventors:
• **MIYATO, Mitsuru**
Fujisawa-shi, Kanagawa 251-0052 (JP)
• **OCHIYA, Takahiro**
Chuo-ku, Tokyo 104-0053 (JP)
• **FUJITA, Yu**
Chiba-shi, Chiba 266-0031 (JP)
• **MATSUZAKI, Juntaro**
Shinjyuku-ku, Tokyo 160-0018 (JP)

(74) Representative: **Griffin, Philippa Jane et al**
Mathys & Squire
The Shard
32 London Bridge Street
London SE1 9SG (GB)

(54) **METHOD OF PREDICTING PROGRESSIVE COVID-19 SEVERITY BY USING PROTEIN MARKERS IN BLOOD EXOSOMES**

(57) The present invention provides a method for predicting the development of a severe symptom in a COVID-19 patient using a level of RNA of COPB2, KRAS, PRKCB, RHOC, CD147, CAPN2, ECM1, FGG, MFAP4,

ADI1, AK1, MGAT1, CLDN3, CRP, UQCRC2, FGA, FGB, FGL1, GPX1, GSK3B, LBP, PDGFC, RAB13, RAP1B, SLC6A4, UBA7, or the like contained in the blood of a patient.

EP 4 223 887 A8