

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
14 April 2022 (14.04.2022)



(10) International Publication Number  
**WO 2022/074180 A1**

(51) International Patent Classification:  
G01N 33/569 (2006.01)

Reinhard; Mathias-Duschl-Strasse 15F, 82140 Olching (DE).

(21) International Application Number:  
PCT/EP2021/077818

(74) Agent: **WEINZIERL, Gerhard** et al.; c/o Schiweck Weinzierl Koch, Ganghoferstrasse 68b, 80339 Munich (DE).

(22) International Filing Date:  
08 October 2021 (08.10.2021)

(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
LU102116 09 October 2020 (09.10.2020) LU

(71) Applicants: **HELMHOLTZ ZENTRUM MÜNCHEN - DEUTSCHES FORSCHUNGSZENTRUM FÜR GESUNDHEIT UND UMWELT (GMBH)** [DE/DE]; Ingolstädter Landstraße 1, 85764 Neuherberg (DE). **EXIMMUM BIOTECHNOLOGIES GMBH** [DE/DE]; Feodor-Lynen-Strasse 21, 81377 Munich (DE).

(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, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,

(72) Inventors: **HAMMERSCHMIDT, Wolfgang**; Endelhauserstrasse 3a, 80686 München (DE). **PICH, Dagmar**; Hofheimerstrasse 18, 81245 München (DE). **ZEIDLER,**

(54) Title: METHOD FOR DETERMINING WHETHER OR NOT VIRUS-NEUTRALIZING ANTIBODIES ARE PRESENT AND IN VITRO METHOD FOR SCREENING COMPOUNDS FOR THEIR ABILITY TO NEUTRALIZE A VIRUS

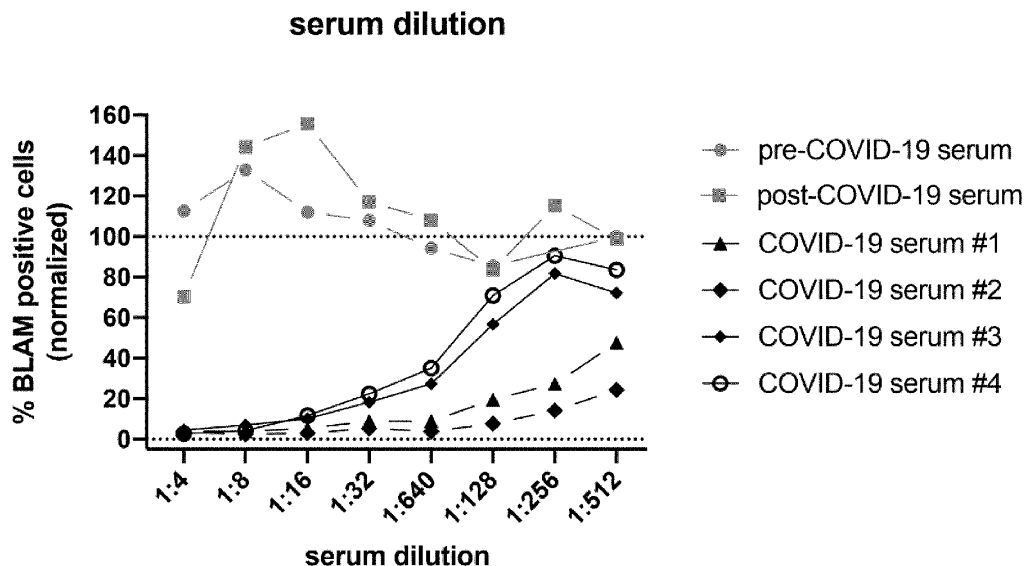


FIGURE 1

(57) Abstract: The invention provides a method for determining whether or not virus-neutralizing antibodies are present in a sample obtained from a subject and a respective kit therefore. The present invention further relates to an in vitro method for screening compounds for their ability to neutralize a virus.

[Continued on next page]

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,  
KM, ML, MR, NE, SN, TD, TG).

**Published:**

— *with international search report (Art. 21(3))*