

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
23 November 2023 (23.11.2023)



(10) International Publication Number
WO 2023/223092 A1

(51) International Patent Classification:

C12Q 1/6888 (2018.01) C07K 14/005 (2006.01)

(21) International Application Number:

PCT/IB2023/000264

(22) International Filing Date:

17 May 2023 (17.05.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/343,205	18 May 2022 (18.05.2022)	US
63/373,343	24 August 2022 (24.08.2022)	US

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

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))
- with sequence listing part of description (Rule 5.2(a))

(71) Applicant: INSTITUT PASTEUR [FR/FR]; 25-28, rue du Docteur Roux, 75015 PARIS (FR).

(72) Inventor: PEROT, Philippe; 62 avenue du Général Leclerc, 75014 PARIS (FR).

(74) Agent: REGIMBEAU; 20, rue de Chazelles, 75847 PARIS CEDEX 17 (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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, 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).

(54) Title: IDENTIFICATION OF A HUMAN CIRCOVIRUS

(57) Abstract: The invention relates to the discovery of the first pathogenic human circovirus in samples from a human hepatitis patient, the capsid of which shows only 39% identity at the amino acid level with the closest known circovirus. This discovery allows for the generation of recombinant nucleic acids, primers, peptides, probes, antibodies, immunogenic compositions, and diagnostic assays specific for human circovirus.



WO 2023/223092 A1