## The Whole Truth

## Covid-19 Covid-19 Vaccines

Professor Jean-Bernard Fourtillan Doctor Christian Tal Schaller Docteur Serge Rader Didier Rochard Frédéric Chaumont

August 20, 2020

## The calamities of the Vaccine they want to inject in your body

4 fragments of HIV1 which give to vaccinated people: AIDS syndrom and Immunodeficiency as a consequence

Adox1 nCoV

Investigatio

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**DNA sequences from the malaria germ** which give Malaria to vaccinated people

**157 additional DNA and protein sequences** (see Patent US 8,243,718 B2), whose presence and role are unexplained

Nanoparticles which will allow definitive control of people vaccinated thanks to 5G

# The ChAdOx1 nCoV-19 vaccine they want to inject in your body contains

# **ChAdOx1 nCoV-19**: **Covid-19** coronavirus carried by the vector virus **ChAdOx1**

-- Nanoparticles described in Microsoft Patent PCT/ US2019/ 038084, which will control you thanks to 5G

### -- **Disinfectants:** either **Thimerosal** or **Formaldehyde** and antibiotics

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## **COVID-19 is an artificial coronavirus made in France** by the Institut Pasteur from natural Sars-CoV coronavirus

Covid-19 is the result of several genetic manipulations of a strain of Coronavirus Sars-CoV, associated with severe acute respiratory syndrome (SARS), resulting from a sample listed under the number 031589, collected from bronchoalveolar washings of Sars infected patients by scientists of Institut Pasteur, <u>before 2003</u>, at the French hospital in Hanoi (Vietnam)

- 1st Step: Sars-CoV-1 was produced by a first patent (2003: European Patent EP1694829 B1 and US Patent US 012.8224 A1) from Sars-CoV collected in Hanoi before2003
 - 2nd Step: Sars-CoV-2 was a continuation of the first US patent US 012.8224 A1, protected by the second US Patent US 8,243,718 B2 (2011), from Sars-CoV-1
 - 3rd Step: Covid-19 was produced from Sars-Cov-2 by inserting into its genome 4 sequences of HIV1 (RNA AIDS virus)

### **Finally**

Covid-19 was made in France by French scientists at the Institut Pasteur from natural Sars-CoV, then transferred to Wuhan where the People of Institut Pasteur released it, <u>unbeknownst</u> to scientists in the Wuhan laboratory and the Chinese government

When she says: "Covid-19 is not a Chinese virus", CHINA DOES NOT LIE!

## From Sars-CoV to Covid-19



**Sars-CoV** 



Collected, before 2003, at French hospital of Hanoi, by Institut Pasteur (sample n° 031589)

1st Patent in 2003 Patent EP 1 694 829 B1 Patent US 012.8224 A1 1 DNA sequence of 29746 nucleotides + 157 DNA and PRT sequences inserted into RNA genome of Sars-CoV



## Sars-CoV1



2nd Patent in 2011 Patent US 8,243,718 B2

Insertion carried out

at the Institut Pasteur

between 2011 and 2015

CONTINUATION OF Patent EP 1 694 829 B1 Patent US 012.8224 A1

 Sars-CoV2



Frédéric Tangy

Insertion of 4 fragments of HIV1, corresponding to short segments of amino acids found in the gp 120 and the Gag of HIV1, in the Sars-CoV2 genome









**Pierre Charneau** 

Frédéric Tangy

### **Covid-19: an artificial virus made in France**

(19	P) Europäisches Patentamt European Patent Office Office européen des brevets	(11) EP 1 694 829 B1
(12	FASCICULE DE BI	BREVET EUROPEEN
(45	) Date de publication et mention de la délivrance du brevet:	(51) Int CI.: <i>C12N 7/00</i> <sup>(2006.01)</sup>
	04.08.2010 Bulletin 2010/31	(86) Numéro de dépôt international:
(21	) Numéro de dépôt: 04805625.3	PCT/FR2004/003106
(22	) Date de dépôt: 02.12.2004	<ul> <li>(87) Numéro de publication internationale:</li> <li>WO 2005/056584 (23.06.2005 Gazette 2005/25)</li> </ul>
(54	NOUVELLE SOUCHE DE CORONAVIRUS AS	SSOCIE AU SRAS ET SES APPLICATIONS.
	NEUER MIT SARS VERBUNDEN CORONAVIE	IRUS STAMM UND SEINE VERWENDUNGEN
	NOVEL STRAIN OF SARS-ASSOCIATED COF	RONAVIRUS AND APPLICATIONS THEREOF
(84	) Etats contractants désignés: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR	LORIN, Valérie
(30	Priorité: 02.12.2003 FR 0314151 02.12.2003 FR 0314152	<ul> <li>92120 Montrouge (FR)</li> <li>GERBAUD, Sylvie</li> <li>94100 Saint Maur Des Fosses (FR)</li> <li>BURGUIERE, Ana Maria</li> </ul>
(43	) Date de publication de la demande: 30.08.2006 Bulletin 2006/35	92140 Clamart (FR) <ul> <li>AZEBI, Saliha</li> <li>94400 Vitry-sur-seine (FR)</li> </ul>
(60	) Demande divisionnaire: 10005885.8	CHARNEAU, Pierre     75005 Paris (FR)
(73	<ul> <li>Titulaires:</li> <li>INSTITUT PASTEUR</li> <li>75724 Paris Cedex 15 (FR)</li> <li>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)</li> <li>75794 Paris Cedex 16 (FR)</li> <li>UNIVERSITE PARIS VII</li> </ul>	<ul> <li>TANGY, Frédéric 93260 Les Lilas (FR)</li> <li>COMBREDET, Chantal 75017 Paris (FR)</li> <li>DELAGNEAU, Jean-François 78170 La Celle Saint Cloud (FR)</li> <li>MARTIN, Monique 92290 Chatenay Malabry (FR)</li> </ul>
(72	<ul> <li>75251 Paris Cedex 05 (FR)</li> <li>Inventeurs:</li> <li>VAN DER WERF, Sylvie</li> <li>F-91190 Gif-sur-yvette (FR)</li> </ul>	<ul> <li>(74) Mandataire: Marcadé, Véronique et al</li> <li>Cabinet Ores</li> <li>36, rue de St Pétersbourg</li> <li>75008 Paris (FR)</li> </ul>
	<ul> <li>ESCRIOU, Nicolas F-75014 Paris (FR)</li> <li>CRESCENZO-CHAIGNE, Bernadette F-92200 Neuilly-sur-seine (FR)</li> <li>MANUGUERRA, Jean-Claude F-75018 Paris (FR)</li> <li>KUNST, Frederik, Inst. Pasteur Bureau des Brevets et Inventions 75724 Paris Cedex 15 (FR)</li> <li>CALLENDRET, Benoît F- 92000 Nanterre (FR)</li> </ul>	<ul> <li>(56) Documents cités:</li> <li>DATABASE EMBL 22 avril 2003 (2003-04-22), XP002294758 Database accession no. AY278489</li> <li>DATABASE EMBL 10 juin 2003 (2003-06-10), XP002294760 Database accession no. AY290752</li> <li>DATABASE UNIPROT 10 octobre 2003 (2003-10-10), XP002294761 Database accession no. P59595</li> </ul>

Il est rappelé que: Dans un délai de neuf mois à compter de la publication de la mention de la délivrance du brevet européen au Bulletin européen des brevets, toute personne peut faire opposition à ce brevet auprès de l'Office européen des brevets, conformément au règlement d'exécution. L'opposition n'est réputée formée qu'après le paiement de la taxe d'opposition. (Art. 99(1) Convention sur le brevet européen).

		(11) EP 1 694 829 B1
(12)	FASCICULE DE BR	REVET EUROPEEN
	Date de publication et mention de la délivrance du brevet: 04.08.2010 Bulletin 2010/31	<ul> <li>(51) Int CL: <i>C12N 7/00</i> (2006.01)     </li> <li>(86) Numéro de dépôt international:</li> </ul>
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(30) (43) (60) (73) •	Etats contractants désignés: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR Priorité: 02.12.2003 FR 0314151 02.12.2003 FR 0314152 Date de publication de la demande: 30.08.2006 Bulletin 2006/35 Demande divisionnaire: 10005885.8 Titulaires: INSTITUT PASTEUR 75724 Paris Cedex 15 (FR) CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS) 75794 Paris Cedex 16 (FR) UNIVERSITE PARIS VII 75251 Paris Cedex 05 (FR)	<ul> <li>BETTON, Jean-Michel 75014 Paris (FR)</li> <li>LORIN, Valérie 92120 Montrouge (FR)</li> <li>GERBAUD, Sylvie 94100 Saint Maur Des Fosses (FR)</li> <li>BURGUIERE, Ana Maria 92140 Clamart (FR)</li> <li>AZEBI, Saliha 94400 Vitry-sur-seine (FR)</li> <li>CHARNEAU, Pierre 75005 Paris (FR)</li> <li>TANGY, Frédéric 93260 Les Lilas (FR)</li> <li>COMBREDET, Chantal 75017 Paris (FR)</li> <li>DELAGNEAU, Jean-François 78170 La Celle Saint Cloud (FR)</li> <li>MARTIN, Monique 92290 Chatenay Malabry (FR)</li> </ul>
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### Page 3 of European Patent EP 1 694 829 B1

EP 1 694 829 B1

### Description

**[0001]** La présente invention est relative à une nouvelle souche de coronavirus associé au syndrome respiratoire aigu sévère (SRAS), issue d'un prélèvement répertorié sous le n° 031589 et prélevé à Hanoi (Vietnam), à des molécules d'acide nucléique issues de son génome, aux protéines et peptides codés par lesdites molécules d'acide nucléique ainsi qu'à leurs applications, notamment en tant que réactifs de diagnostic et/ou comme vaccin.

**[0002]** Le coronavirus est un virus à ARN monocaténaire, de polarité positive, d'approximativement 30 kilobases qui se réplique dans le cytoplasme des cellules hôtes ; l'extrémité 5' du génome a une structure en coiffe et l'extrémité 3' comporte une queue polyA. Ce virus est enveloppé et comprend, à sa surface, des structures péplomériques dénommées spicules.

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### (19) United States

### (12) Patent Application Publication (10) Pub. No.: US 2007/0128224 A1

Van Der Werf et al.

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- (54) NOVEL STRAIN OF SARS-ASSOCIATED CORONAVIRUS AND APPLICATIONS THEREOF
- (76) Inventors: Sylvie Van Der Werf, Gif-Sur-Yvette (FR); Nicolas Escriou, Paris (FR); Bernadette Crescenzo-Chaigne, Neuilly-Sur-Seine (FR); Jean-Claude Manuguerra, Paris (FR); Frederick Kunst, Paris (FR); Benoit Callendret, Nanterre (FR); Jean-Michel Betton, Paris (FR); Valerie Lorin, Montrouge (FR); Sylvie Gerbaud, Saint-Maur-Des-Fosses (FR); Ana Maria Burguiere, Clamart (FR); Saliha Azebi, Vitry-Sur-Seine (FR); Pierre Charneau, Paris (FR); Frederic Tangy, Les Lilas (FR); Chantal Combredet, Paris (FR); Jean-Francois Delagneau, La Celle Saint Cloud (FR); Monique Martin, Chatenay Malabry (FR)

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- (21) Appl. No.: 10/581,356
- (22) PCT Filed: Dec. 2, 2004

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(2), (4) Date: Feb. 8, 2007

(30) Foreign Application Priority Data

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	C07K 14/165	(2006.01)
	C07K 16/10	(2006.01)
	C12N 5/06	(2006.01)
(52)	U.S. Cl	
		435/326; 435/456; 530/350;
		530/388.3; 536/23.72; 977/802

### (57) ABSTRACT

The invention relates to a novel strain of severe acute respiratory syndrome (SARS)-associated coronavirus, resulting from a sample collected in Hanoi (Vietnam), reference number 031589, nucleic acid molecules originating from the genome of same, proteins and peptides coded by said nucleic acid molecules and, more specifically, protein N and the applications thereof, for example, as diagnostic reagents and/or as a vaccine.



### (12) United States Patent Van Der Werf et al.

### (54) STRAIN OF SARS-ASSOCIATED CORONAVIRUS AND APPLICATIONS THEREOF

- Inventors: Sylvie Van Der Werf, Gif-Sur-Yvette (75)(FR); Nicolas Escriou, Paris (FR); Bernadette Crescenzo-Chaigne, Neuilly-Sur-Seine (FR); Jean-Claude Manuguerra, Paris (FR); Frederik Kunst, Paris (FR); Benoît Callendret, Nanterre (FR); Jean-Michel Betton, Paris (FR); Valérie Lorin, Montrouge (FR): Svlvie Gerbaud. Saint-Maur-Des-Fosses (FR); Ana Maria Burguiere, Clamart (FR); Saliha Azebi, Vitry-Sur-Seine (FR); Pierre Charneau, Paris (FR); Frédéric Tangy, Les Lilas (FR); Chantal Combredet, Paris (FR); Jean-François Delagneau, La Celle Saint Cloud (FR); Monique Martin, Chatenay Malabry (FR)
- (73) Assignees: Institut Pasteur, Paris (FR); Centre National de la Recherche Scientifique, Paris (FR); Universite Paris 7, Paris (FR)
- Subject to any disclaimer, the term of this (\*) Notice: patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 12/754,908
- (22)Filed: Apr. 6, 2010

#### **Prior Publication Data**

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### **Related U.S. Application Data**

(60) Division of application No. 10/581,356, filed on Feb. 8, 2007, now Pat. No. 7,736,850, which is a continuation of application No. PCT/FR2004/003106, filed on Dec. 2, 2004.

#### Foreign Application Priority Data (30)

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G01N 33/53	(2006.01)
G01N 33/542	(2006.01)
G01N 33/00	(2006.01)

- (52) U.S. Cl. ..... 435/5; 435/7.1; 435/7.9; 435/7.92; 435/7.94; 435/7.95
- (58) Field of Classification Search ...... None See application file for complete search history.

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2005/0100883	A1 $*$	5/2005	Wang et al.	435/5

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Primary Examiner - Louise Humphrey

(74) Attorney, Agent, or Firm-Finnegan, Henderson, Farabow, Garrett & Dunner L.L.P.

(57)ABSTRACT

The invention relates to a novel strain of severe acute respiratory syndrome (SARS)-associated coronavirus, resulting from a sample collected in Hanoi (Vietnam), reference number 031589, nucleic acid molecules originating from the genome of same, proteins and peptides coded by said nucleic acid molecules and, more specifically, protein N and the applications thereof, for example, as diagnostic reagents and/ or as a vaccine

### 8 Claims, 116 Drawing Sheets

The proof that the 3 patents EP 1 694 829 B1, US 012.8224 A1, and US 8,243,718 B2, filed by the Institut Pasteur in 2003 and 2011, were intended to protect the manufacture of Tests and Vaccines, are mentioned in the abstracts of these patents

### Page 3 of EuropeanPatent EP 1 694 829 B1

EP 1 694 829 B1

### Description

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[0001] La présente invention est relative à une nouvelle souche de coronavirus associé au syndrome respiratoire aigu sévère (SRAS), issue d'un prélèvement répertorié sous le n° 031589 et prélevé à Hanoi (Vietnam), à des molécules d'acide nucléique issues de son génome, aux protéines et peptides codés par lesdites molécules d'acide nucléique ainsi qu'à leurs applications, notamment en tant que réactifs de diagnostic et/ou comme vaccin.

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### Page 1 of American Patent US 012.8224 A1

(57)

### ABSTRACT

The invention relates to a novel strain of severe acute respiratory syndrome (SARS)-associated coronavirus, resulting from a sample collected in Hanoi (Vietnam), reference number 031589, nucleic acid molecules originating from the genome of same, proteins and peptides coded by said nucleic acid molecules and, more specifically, protein N and the applications thereof, for example, as diagnostic reagents and/ or as a vaccine.

8 Claims, 116 Drawing Sheets

### Page 1 of Amerian Patent US 8,243,718 B2

### (57)

### ABSTRACT

The invention relates to a novel strain of severe acute respiratory syndrome (SARS)-associated coronavirus, resulting from a sample collected in Hanoi (Vietnam), reference number 031589, nucleic acid molecules originating from the genome of same, proteins and peptides coded by said nucleic acid molecules and, more specifically, protein N and the applications thereof, for example, as diagnostic reagents and/or as a vaccine.

## From Covid-19 to ChAdOx1 n-CoV-19 Vaccine

## Covid-19

Insertion of Covid-19 genome into the genome of a viral vector

(ChAdOx1 Chimpanzee DNA adenovirus)

Jenner Institute



Adrian Hill Director of Jenner Institute

## **Covid-19 vaccine**

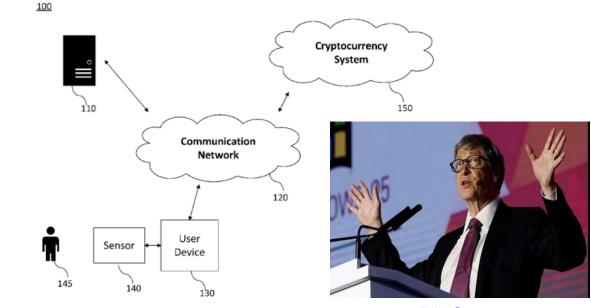
ChAdOx1 nCoV-19 (GSK, Sanofi)

Insertion of tracing nanoparticles in the vaccine vial to be injected into the human body together with the vaccine

US Patent WO 2020/060606 A1 PCT/US20 19/038084 Microsoft

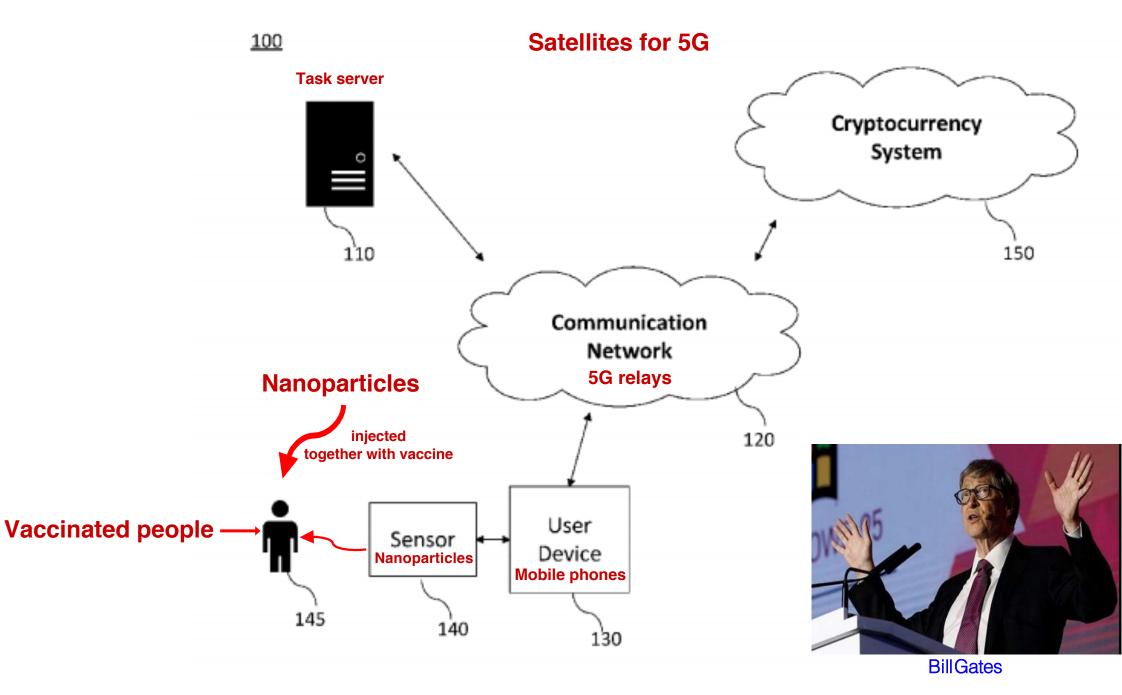
## **Final vaccine**

NANOPARTICLES OF Covid-19 VACCINES CRYPTOCURRENCY SYSTEM USING BODY ACTIVITY DATA



**Bill Gates** 

## Nanoparticles they want to inject in your body together with ChAdOx1 nCovid-19 Vaccine



### **Trombinoscope of the promoters of the ChAdOx1 nCoV-19 vaccine**







Emmanuel Macron



Jacques Attali



Agnès Buzyn



Yves Lévy



Olivier Véran





Jérôme Salomon **Dominique Martin** 



**Tedros Adhanom** Ghebreyesus



Anthony Fauci



### Frédéric Tangy



Adrian Hill

### PRELUDE

To fully **control** and **enslave** the **world's population**, by monitoring and weakening it, the leaders of the New World Order had **nothing better** at their disposal **than a Vaccine**. With this diabolical intention, they had many genetic manipulations carried out, on the genome of the Sars-CoV coronavirus responsible for the SARS epidemic that occurred between 2002 and 2003 in Asia.

The Covid-19 coronavirus, different from Sars-CoV2, is an artificial virus that is the result of many genetic manipulations carried out on the natural Sars-CoV coronavirus, which successively led to 3 artificial coronaviruses Sars-CoV1, Sars-CoV2, and Covid-19, described in 3 patents filed by the Institut Pasteur, which provide their intellectual protections

In its genome, **Covid-19 carries**, among other calamities, **4 RNA fragments from HIV**, the AIDS virus, which corresponds to short segments of amino acids found in gp120 and Gag of HIV-1, which will place all vaccinated people in immunodeficiency, and **DNA fragments from the malaria germ**.

Men around the world must open their eyes and understand that the natural Sars-CoV coronavirus poses no danger to humanity, unlike artificial Covid-19. Covid-19 helped spark a false pandemic, and spread fear across the world, to make us accept the Covid-19 vaccines.

Numerical tracing nanoparticles have been added to the vials of the final Covid-19 vaccine (ChAdOx1 nCoV-19).

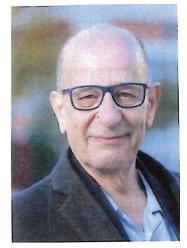
By seeking to vaccinate the entire world population, the promoters of the Covid-19 vaccines pursue two objectives:

- Control the entire world population after having vaccinated it, thanks to the deployment of 5G, because these vaccines contain nanoparticles which will allow the identification and permanent control of vaccinated individuals;

- Limit the world's population.

# From Sars-CoV to Covid-19

## **Doctor Frédéric Tangy is the father of Covid-19**



**Doctor Frédéric Tangy** Director of Vaccine Innovation at the Institut Pasteur

Publications concernant les coronavirus et les vaccins

- 1-2003: Inventor in patents EP1694829 B1 and US 012.8224 A1
- 2- 2005: Publication: Frédéric Tangy and Hussein Naim Live attenuated Measles Vaccine as a Potential Multivalent Pediatric Vaccination Vector. VIRAL IMMUNOLOGY, Volume 18, Number 2, 2005, p 317-326 (voir DOCUMENT 2)
- 3-2011: Inventor in patent US 8,343,718 B2
- 4- 2014: Publication: Nicolas Escriou, Benoît Callendret, Valérie Lorin, Chantal Combredet, Philippe Marianneau, Michèle Février, Frédéric Tangy. *Protection from SARS coronavirus conferred by live measles vaccine expressing the spike glycoprotein*, in Virology 452–453, March, 2014, p 32-41 (voir DOCUMENT 13)
- 5- 2020: PARIS-MATCH article from April, 9-15, 2020 (voir DOCUMENT3)
- 6- 2020: PARIS-MATCH article from May, 14-20, 2020 (voir DOCUMENT 5)

## Le docteur Frédéric Tangy est le père du Covid-19

<mark>Frédéric Tangy</mark>



## From Sars-CoV to Sars-CoV1

## Before 2003





Sars-CoV1

1 DNA sequence of 29746 nucleotides + 157 DNA and PRT sequences inserted into RNA genome of Sars-CoV



Collected at French Hospital of Hanoi, by Institut Pasteur (sample n° 031589)

Patent EP 1 694 829 B1 Patent US 012.8224 A1

### First Patent US 2007/0128224 A1



### (19) United States

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- (54) NOVEL STRAIN OF SARS-ASSOCIATED CORONAVIRUS AND APPLICATIONS THEREOF
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- (30) **Foreign Application Priority Data**

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Dec. 2, 2003	(FR)	0314152

### **Publication Classification**

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(52)	US CI	124/22

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#### (57)ABSTRACT

The invention relates to a novel strain of severe acute respiratory syndrome (SARS)-associated coronavirus, resulting from a sample collected in Hanoi (Vietnam), reference number 031589, nucleic acid molecules originating from the genome of same, proteins and peptides coded by said nucleic acid molecules and, more specifically, protein N and the applications thereof, for example, as diagnostic reagents and/or as a vaccine.

## Patent US 2007/0128224 A1

## Claims 1

1

## US 2007/0128224 A1

### NOVEL STRAIN OF SARS-ASSOCIATED CORONAVIRUS AND APPLICATIONS THEREOF

[0001] The present invention relates to a novel strain of severe acute respiratory syndrome (SARS)-associated coronavirus derived from a sample recorded under No. 031589 and collected in Hanoi (Vietnam), to nucleic acid molecules derived from its genome, to the proteins and peptides encoded by said nucleic acid molecules and to their applications, in particular as diagnostic reagents and/or as vaccine.

[0002] Coronavirus is a virus containing single-stranded RNA, of positive polarity, of approximately 30 kilobases which replicates in the cytoplasm of the host cells; the 5' end of the genome has a capped structure and the 3' end contains a polyA tail. This virus is enveloped and comprises, at its surface, peplomeric structures called spicules.

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### Claims 2

[0020] The subject of the present invention is therefore an isolated or purified strain of severe acute respiratory syndrome-associated human coronavirus, characterized in that its genome has, in the form of complementary DNA, a serine codon at position 23220-23222 of the gene for the S protein or a glycine codon at position 25298-25300 of the gene for ORF3, and an alanine codon at position 7918-7920 of ORF1a or a serine codon at position 26857-26859 of the gene for the M protein, said positions being indicated in terms of reference to the Genbank sequence AY274119.3.

[0021] According to an advantageous embodiment of said strain, the DNA equivalent of its genome has a sequence corresponding to the sequence SEQ ID No: 1; this coronavirus strain is derived from the sample collected from the bronchoaleveolar washings from a patient suffering from SARS, recorded under the No. 031589 and collected at the Hanoi (Vietnam) French hospital.

[0022] In accordance with the invention, said sequence SEQ ID No: 1 is that of the deoxyribonucleic acid corresponding to the ribonucleic acid molecule of the genome of the isolated coronavirus strain as defined above. Insertion of a first DNA sequence (29746 nucleotides) in the genome of Sars-Cov collected in the French hospital at Hanoi (Vietnam)

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>< XhoII</pre> >< ScrFI >< Sau3AI >< MvaI > < TthHB8I >< NdeII >< EcoRII > < TagI>< MflI >< Ecl1361 >< Sau3AI</pre> >< MboI >< DsaV >< NdeII >< DpnII >< BstOI</pre> >< MboI>< MnlI>< DpnI</pre> >< BstNI >< DpnII >< BstYI >< BsiLI >< DpnI >< BspAI</pre> >< BsaJI >< BspAI >< Bsp143I</pre> >< ApyI >< Bsp143I>< BglII</pre> ATATTAGGTT TTTACCTACC CAGGAAAAGC CAACCAACCT CGATCTCTTG TAGATCTGTT CTCTAAACGA 10 20 30 40 50 60 70

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CGAGGGTACA GTGAATAATG CTAGGGAGAG CTGCCTATAT GGAAGAGCCC TAATGTGTAA AATTAATTTT 29620 29630 29640 29650 29660 29670 29680 >< Tru9I >< Ddel >< MseI >< BfrI >< NlaIII > < AluI 29710 29690 29700 29720 29730 29740

Listing of the 158 DNA and Protein sequences inserted, by Pasteur Institute people, into the Sars-CoV coronavirus, taken, in 2003, from a patient at the French hospital in Hanoi

SI	EQUENCE LISTING
<160> NUMBER OF SEQ ID NOS: 158	
<210> SEQ ID NO 1 <211> LENGTH: 29746 <212> TYPE: DNA	Sars-CoV1: SEQUENCE 1
<213> ORGANISM: CORONAVIRUS	DNA
<400> SEQUENCE: 1 atattaggtt tttacctacc caggaaaagc	caaccaacct cgatctcttg tagatctgtt 60
ctctaaacga actttaaaat ctgtgtagct	gtcgctcggc tgcatgccta gtgcacctac 120
atctcacata gcaatcttta atcaatgtgt	aacattaggg aggacttgaa agagccacca 29580
cattttcatc gaggccacgc ggagtacgat	cgagggtaca gtgaataatg ctagggagag 29640
ctgcctatat ggaagagccc taatgtgtaa	aattaatttt agtagtgcta tccccatgtg 29700
attttaatag cttcttagga gaatgacaaa	aaaaaaaaaa aaaaaa <b>29746</b>
<212> TYPE: DNA <213> ORGANISM: CORONAVIRUS <220> FEATURE:	

Sars-CoV1: SEQUENCE 2 DNA

<220> FEATURE: <221> NAME/KEY: CDS <222> LOCATION: (89)..(3853) <223> OTHER INFORMATION:

<400> SEQUENCE: 2

ttctcttctg gaaaaaggta ggcttatcat tagagaaaac aacagagttg tggtttcaag	60
tgatattett gttaacaaet aaaegaae atg ttt att tte tta tta ttt ett Met Phe Ile Phe Leu Leu Phe Leu 1 5	112
act ctc act agt ggt agt gac ctt gac cgg tgc acc act ttt gat gat Thr Leu Thr Ser Gly Ser Asp Leu Asp Arg Cys Thr Thr Phe Asp Asp 10 15 20	160
ctc aag ggt gca tgc tct tgt ggt tct tgc tgc aag ttt gat gag Leu Lys Gly Ala Cys Ser Cys Gly Ser Cys Cys Lys Phe Asp Glu 1230 1235 1240	3808
gat gac tct gag cca gtt ctc aag ggt gtc aaa tta cat tac aca Asp Asp Ser Glu Pro Val Leu Lys Gly Val Lys Leu His Tyr Thr 1245 1250 1255	3853
taaacgaact tatggatttg tttatgagat tttttactct tggatcaatt actgcacagc	3913
cagtaaaaat tgacaatgct tctcctgcaa gt	3945

### Listing of the 158 DNA and Protein sequences inserted, by Pasteur Institute people, into the Sars-CoV coronavirus, taken, in 2003, from a patient at the French hospital in Hanoi Following up

<210> SEQ ID NO 3 <211> LENGTH: 1255 Sars-CoV1: SEQUENCE 3 <212> TYPE: PRT <213> ORGANISM: CORONAVIRUS PRT <400> SEQUENCE: 3 Met Phe Ile Phe Leu Phe Leu Thr Leu Thr Ser Gly Ser Asp Leu 5 10 15 1 Asp Arg Cys Thr Thr Phe Asp Asp Val Gln Ala Pro Asn Tyr Thr Gln 20 25 30 Met Thr Ser Cys Cys Ser Cys Leu Lys Gly Ala Cys Ser Cys Gly 1220 1225 1230 Ser Cys Cys Lys Phe Asp Glu Asp Asp Ser Glu Pro Val Leu Lys 1235 1240 1245 Gly Val Lys Leu His Tyr Thr 1250 1255 <210> SEQ ID NO 16 <211> LENGTH: 708 Sars-CoV1: SEQUENCE 16 <212> TYPE: DNA <213> ORGANISM: CORONAVIRUS <220> FEATURE: DNA <221> NAME/KEY: CDS <222> LOCATION: (41)..(703) <223> OTHER INFORMATION: <400> SEQUENCE: 16 tattattatt attetqtttg gaaetttaac attgettate atg gea gae aac ggt 55 Met Ala Asp Asn Gly 1 5 act att acc gtt gag gag ctt aaa caa ctc ctg gaa caa tgg aac cta 103 Thr Ile Thr Val Glu Glu Leu Lys Gln Leu Leu Glu Gln Trp Asn Leu 10 15 20 <210> SEQ ID NO 28 Sars-CoV1: SEQUENCE 28 <211> LENGTH: 39 <212> TYPE: PRT <213> ORGANISM: CORONAVIRUS PRT <400> SEQUENCE: 28 Met Lys Leu Ile Val Leu Thr Cys Ile Ser Leu Cys Ser Cys Ile 5 10 15 1 Cys Thr Val Val Gln Arg Cys Ala Ser Asn Lys Pro His Val Leu Glu

### Listing of the 158 DNA and Protein sequences inserted, by Pasteur Institute people, into the Sars-CoV coronavirus, taken, in 2003, from a patient at the French hospital in Hanoi Following up

<210> SEQ ID NO 31 <211> LENGTH: 21221	Sars-CoV1: SEQUENCE 31				
<212> TYPE: DNA <213> ORGANISM: CORONAVIRUS			DNA		
<400> SEQUENCE: 31					
atggagagcc ttgttcttgg tgtcaacgag	aaaacacacg	tccaactcag	tttgcctgtc	60	
cttcaggtta gagacgtgct agtgcgtggc	ttcggggact	ctgtggaaga	ggccctatcg	120	
gaggcacgtg aacacctcaa aaatggcact	tgtggtctag	tagagctgga	aaaaggcgta	180	
ctgccccagc ttgaacagcc ctatgtgttc	attaaacgtt	ctgatgcctt	aagcaccaat	240	
ctaactacat tttctggagg aacacaaato	ctatccagtt	gtcttcctat	tcactctttg	21060	
acatgagcaa atttcctctt aaattaagag				21120	
aaatcaatga tatgatttat tctcttctgg	aaaaaggtag	gcttatcatt	agagaaaaca	21180	
acagagttgt ggtttcaagt gatattcttg	j ttaacaacta	a		21221	
<210> SEQ ID NO 46 <211> LENGTH: 1995	Sar	Sars-CoV1: SEQUENCE 46			
<212> TYPE: DNA <213> ORGANISM: CORONAVIRUS			DNA		
<400> SEQUENCE: 46					
tttgtgcact catactcgct tacagtaata	aaactgttgg	cgagcttggt	gatgtcagag	60	
aaactatgac ccatcttcta cagcatgcta	atttggaatc	tgcaaagcga	gttcttaatg	120	
<210> SEQ ID NO 55 <211> LENGTH: <mark>3</mark> 2	5	Sars-CoV1	: SEQUEN	ICE 55	
<212> TYPE: DNA <213> ORGANISM: artificial se	quence		DNA		

cccatatgtc tgataatgga ccccaatcaa ac

<223> OTHER INFORMATION: N sens primer

<220> FEATURE:

<400> SEQUENCE: 55

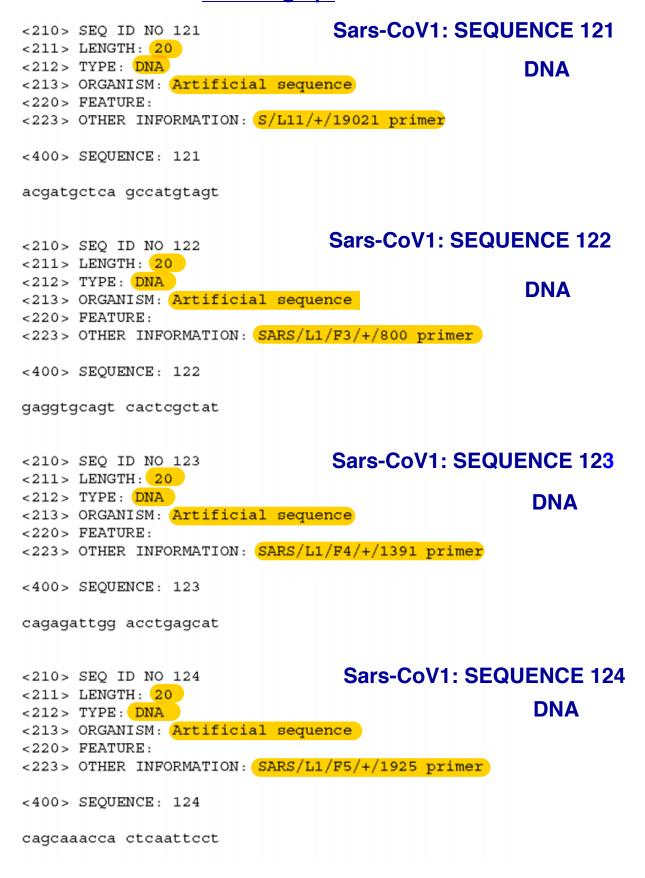
### Listing of the 158 DNA and Protein sequences inserted, by Pasteur Institute people, into the Sars-CoV coronavirus, taken, in 2003, from a patient at the French hospital in Hanoi Following up

<pre>&lt;210&gt; SEQ ID NO 61 &lt;211&gt; LENGTH: 16 &lt;212&gt; TYPE: DNA &lt;213&gt; ORGANISM: Antisens set 2 (28774-28759) primer &lt;400&gt; SEQUENCE: 61</pre>	UENCE DNA	61
cagtttcacc acctcc		
<pre>&lt;210&gt; SEQ ID NO 69 &lt;211&gt; LENGTH: 13 &lt;212&gt; TYPE: PRT &lt;213&gt; ORGANISM: artificial sequence &lt;220&gt; FEATURE: &lt;223&gt; OTHER INFORMATION: M2-14 peptide</pre>	UENCE PRT	
<400> SEQUENCE: 69		
Ala Asp Asn Gly Thr Ile Thr Val Glu Glu Leu Lys Gln 1 5 10		
<pre>&lt;210&gt; SEQ ID NO 73 &lt;211&gt; LENGTH: 410 &lt;212&gt; TYPE: DNA </pre> Sars-CoV1: SEQ	JENCE	7 <b>3</b>
<213> ORGANISM: CORONAVIRUS	DNA	
<400> SEQUENCE: 73		
ttetecagae aaetteaaaa tteeatgagt ggagettetg etgatteaae teaggeataa	60	
acactcatga tgaccacaca aggcagatgg gctatgtaaa cgttttcgca attccgttta	120	
cgatacatag tctactcttg tgcagaatga attctcgtaa ctaaacagca caagtaggtt	180	
<pre>&lt;210&gt; SEQ ID NO 74 &lt;211&gt; LENGTH: 4382 &lt;212&gt; TYPE: PRT &lt;213&gt; ORGANISM: CORONAVIRUS</pre>	JENCE PRT	
<400> SEQUENCE: 74		
Met Glu Ser Leu Val Leu Gly Val Asn Glu Lys Thr His Val Glu 1 5 10 15	n Leu	
Ser Leu Pro Val Leu Gln Val Arg Asp Val Leu Val Arg Gly Pho 20 25 30	e Gly	

Listing of the 158 DNA and Protein sequences inserted, by Pasteur Institute people, into the Sars-CoV coronavirus, taken, in 2003, from a patient at the French hospital in Hanoi **Following up** 

Sars-CoV1: SEQUENCE 88 <210> SEQ ID NO 88 <211> LENGTH: 20 DNA <212> TYPE: DNA <213> ORGANISM: Artificial sequence <220> FEATURE: <223> OTHER INFORMATION: S/L6/-/10542 primer <400> SEQUENCE: 88 cctgtgcagt ttgtctgtca Sars-CoV1: SEQUENCE 89 <210> SEQ ID NO 89 <211> LENGTH: 20 DNA <212> TYPE: DNA <213> ORGANISM: Artificial sequence <220> FEATURE: <223> OTHER INFORMATION: S/L6/+/10677 primer <400> SEQUENCE: 89 ccttgtggca atgaagtaca Sars-CoV1: SEQUENCE 90 <210> SEQ ID NO 90 <211> LENGTH: 20 DNA <212> TYPE: DNA <213> ORGANISM: Artificial sequence <220> FEATURE: <223> OTHER INFORMATION: S/L6/+/10106 primer <400> SEQUENCE: 90 atgtcatttg cacagcagaa Sars-CoV1: SEQUENCE 91 <210> SEQ ID NO 91 <211> LENGTH: 20 DNA <212> TYPE: DNA <213> ORGANISM: Artificial sequence <220> FEATURE: <223> OTHER INFORMATION: S/L6/+/9571 primer <400> SEQUENCE: 91 cttcaatggt ttgccatgtt

## Listing of the 158 DNA and Protein sequences inserted, by Pasteur Institute people, into the Sars-CoV coronavirus, taken, in 2003, from a patient at the French hospital in Hanoi **Following up**



## Listing of the 158 DNA and Protein sequences inserted, by Pasteur Institute people, into the Sars-CoV coronavirus, taken, in 2003, from a patient at the French hospital in Hanoi **Following up**

	~	ID NO 140		S	ars-CoV1:	SEQUENCE 1	40
<212>	TYPE :		icial sequer			DNA	
<220>	FEATU	JRE:	DN: synthet				
<400>	SEQUE	ENCE: 140					
tcaata	ittgg	ccattagcca	tattattcat	tggttatata	gcataaatca	atattggcta	60
ttggcc	attg	catacgttgt	atctatatca	taatatgtac	atttatattg	gctcatgtcc	120
aatatg	accg	ccatgttggc	attgattatt	gactagttat	taatagtaat	caattacggg	180

gtcattagtt catageceat atatggagtt eegegttaca taaettaegg taaatggeee 240

<210> SEQ ID NO 157 <211> LENGTH: 20	Sars-CoV1: SEQUENCE 157
<212> TYPE: DNA	DNA
<213> ORGANISM: Artificial se	quence DNA
<220> FEATURE:	
<223> OTHER INFORMATION: PCR	primer
<400> SEQUENCE: 157	
ccatttcaac aatttggccg	

<210> SEQ ID NO 158 Sars-CoV1: SEQUENCE 158
<211> LENGTH: 45
<212> TYPE: DNA DNA
<213> ORGANISM: Artificial sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer

<400> SEQUENCE: 158

ataggatecg egegeteatt atttategte gteatettta taate

# From Sars-CoV1 to Sars-CoV2

## In 2011

## From Sars-CoV1 to Sars-CoV2

But Sars-CoV2 is identical, in all points, to Sars-CoV1





Sars-CoV2

CONTINUATION OF Patent EP 1 694 829 B1 Patent US 012.8224 A1



Produced by inserting 1 DNA sequence (29746 nucleotides) + 157 DNA and PRT sequences into the Sars-CoV RNA genome

Patent US 8,243,718 B2

### Patent US 8,243,718 B2 continuation of First Patent US 2007/012.8224 A1

US008343718B2

### (12) United States Patent Van Der Werf et al.

### (54) STRAIN OF SARS-ASSOCIATED CORONAVIRUS AND APPLICATIONS THEREOF

- (75) Inventors: Sylvie Van Der Werf, Gif-Sur-Yvette (FR); Nicolas Escriou, Paris (FR); Bernadette Crescenzo-Chaigne. Neuilly-Sur-Seine (FR); Jean-Claude Manuguerra, Paris (FR); Frederik Kunst, Paris (FR); Benoît Callendret, Nanterre (FR); Jean-Michel Betton, Paris (FR); Valérie Lorin, Montrouge (FR): Svlvie Gerbaud. Saint-Maur-Des-Fosses (FR); Ana Maria Burguiere, Clamart (FR); Saliha Azebi, Vitry-Sur-Seine (FR); Pierre Charneau, Paris (FR); Frédéric Tangy, Les Lilas (FR); Chantal Combredet, Paris (FR); Jean-François Delagneau, La Celle Saint Cloud (FR); Monique Martin, Chatenay Malabry (FR)
- (73) Assignees: Institut Pasteur, Paris (FR); Centre National de la Recherche Scientifique, Paris (FR); Universite Paris 7, Paris (FR)
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 12/754,908
- (22) Filed: Apr. 6, 2010
- (65) **Prior Publication Data** US 2011/0065089 A1 Mar. 17, 2011

### Related U.S. Application Data

(60) Division of application No. 10/581,356, filed on Feb.
 8, 2007, now Pat. No. 7,736,850, which is a continuation of application No. PCT/FR2004/003106, filed on Dec. 2, 2004.

### (30) Foreign Application Priority Data

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Dec. 2, 2003	(FR)	 03 14152	

(51)	Int. Cl.				
	C12Q 1/70	(2006.01)			
	G01N 33/53	(2006.01)			
	G01N 33/542	(2006.01)			
	G01N 33/00	(2006.01)			
(50)	U.C. CI	ADE			

- (52) **U.S. Cl.** ..... **435/5**; 435/7.1; 435/7.9; 435/7.92; 435/7.94; 435/7.95
- (58) **Field of Classification Search** ...... None See application file for complete search history.

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2005/0100883	A1*	5/2005	Wang et al.	435/5

(10) Patent No.:	US 8,343,718 B2
(45) Date of Patent:	Jan. 1, 2013

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Poon, et al., "Rapid Diagnosis of a Coronavirus Associated with Severe Acute Respiratory Syndrome (SARS)", Clinical Chemistry, American Association for Clinical Chemistry, Winston, US, vol. 49, No. 6, Pt. 1, pp. 953-955, (Jun. 2003).

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Primary Examiner - Louise Humphrey

(74) Attorney, Agent, or Firm—Finnegan, Henderson, Farabow, Garrett & Dunner L.L.P.

#### 57) ABSTRACT

The invention relates to a novel strain of severe acute respiratory syndrome (SARS)-associated coronavirus, resulting from a sample collected in Hanoi (Vietnam), reference number 031589, nucleic acid molecules originating from the genome of same, proteins and peptides coded by said nucleic acid molecules and, more specifically, protein N and the applications thereof, for example, as diagnostic reagents and/ or as a vaccine.

### 8 Claims, 116 Drawing Sheets

# From Sars-CoV2 to Covid-19

## From Sars-CoV2 to Covid-19

## From 2011 to 2015



**Pierre Charneau** 



**Frédéric Tangy** 

Insertion of 4 fragments of HIV1,

corresponding to the short amino acid segments of the gp 120 and of the HIV1 Gag,

into the Sars-CoV2 genome



Covid-19

identical to Sars-CoV1

Insertion carried out at the Institut Pasteur between 2011 and 2015

## Manufacture of virus responsible for COVID 19 disease

Between 2011 and 2015, French scientists from the Institut Pasteur manufactured the virus responsible for the COVID 19 disease, which they called Covid-19, by inserting 4 RNA sequences from HIV1, the AIDS virus, into the Sars-CoV2 genome.

It was Dr Pierre Charneau, Head of the Molecular Virology and Vaccinology Unit at the Institut Pasteur, and specialist in the integration of HIV into the DNA of the human genome, who was responsible for this genetic manipulation.

### **Doctor Pierre Charneau made Sars nCoV-19 from Sars-CoV2**



**Doctor Pierre Charneau** 

Head of the Molecular Virology and Vaccinology (VMV) Unit at the Institut Pasteur Scientific Director and Head of the Joint Laboratory between Institut Pasteur and **Theravectys** 

**Pierre Charneau** is a recognized specialist in HIV, the AIDS virus, lentiviral gene transfer vectors and their medical applications. He holds a research doctorate in molecular and cellular biology.

In 1995, he did his doctoral thesis in Luc Montagnier's viral oncology laboratory at the Institut Pasteur on: "Reverse transcription, nuclear importation and independent integration of the mitosis of the HIV genome". Dr. Pierre Charneau, specialist in the integration of HIV into the DNA of the human genome, was responsible for inserting the RNA sequences of the AIDS virus into the Sars-CoV2 genome, between 2011 and 2015; which gave birth to the artificial coronavirus nCoV-19, responsible for the COVID-19 epidemic, triggered by the Institut Pasteur in 2019. In the ChAdOx1 nCoV-19 vaccine, the nCoV-19 coronavirus is carried by the vector adenovirus ChAdOx1

### - Pierre Charneau is inventor in the 3 patents protecting artificial virus Sars-CoV1 from Institut Pasteur

- 2003 : inventor together with Frédéric Tangy, inpatents EP 1694829 B1 and US 012.8224 A1

- 2011: inventor together with Frédéric Tangy, in patent US 8,343,718 B2

### - Publications by Pierre Charneau concerning the nuclear importation of HIV into human cells

1- Véronique Zennou, Caroline Petit, Denise Guetard, Ulf Nerhbass, Luc Montagnier, and Pierre Charneau. *VIH-1 Genome Nuclear Import Is Mediated by a Central DNA Flap.* Cell, Vol. 101, 173–185, April 14, 2000

2- Aude Sirven, Françoise Pflumio, Véronique Zennou, Monique Titeux, William Vainchenker, Laure Coulombel, Anne Dubart-Kupperschmitt,

Pierre Charneau. The human immunodeficiency virus type-1 central DNA flap is a crucial determinant for lentiviral vector nuclear import and gene transduction of human hematopoietic stem cells. BLOOD, 15 DECEMBER 2000, VOLUME 96, NUMBER 13

## Characteristics of HIV1, the AIDS virus

To read this article, see DOCUMENT 14

# **Transformation of Sars-CoV-2 into Covid-19**

The Sars-CoV-2 coronavirus, described in US Patent 8,343,718 B2, is an RNA virus into the genome of which DNA sequences, but not RNA sequences, have been inserted.

Recently, and simultaneously, **Professor Luc Montagnier** and a **group of Indian scientists** have **analyzed** and **decrypted** the **complete genome of the Covid-19** coronavirus responsible for the pandemic.

They found in the Covid-19 genome:

- sequences of HIV, the AIDS virus (4 fragments of HIV1 RNA which correspond to short

segments of amino acids found in the gp120 and the Gag of HIV1);

- and **DNA sequences** from the malaria germ.

These results have been published and confirmed by **Professor Peter Chumakov**, a wellknown Russian microbiologist, and Japanese **Professor Tasuku Honjo**, 2018 Nobel Prize laureate in medicine. **Since there was no RNA sequence in Sars-CoV-2** described in **US Patent 8,343,718 B2**, this analysis proves that **Covid-19 is the result of genetic manipulation of Sars-CoV-2** by **French scientists from the Institut Pasteur**. Interview with professor Luc Montagnier by doctor Jean-François Lemoine Health site: Medical Frequency and Why Doctor (Thursday April 16, 2020)

To read this interview, see **DOCUMENT 1** 

# The Covid-19 virus is not Sars-CoV2, but Sars nCoV-19, manufactured before 2015

The Institut Pasteur claimed that the virus responsible of the COVID-19 disease, which they called Covid-19, was Sars-CoV-2. And that they discovered this natural virus in December 2019.

# This is totally wrong!

# **Evidence of the manufacture of the artificial virus, responsible for the COVID-19 disease, by the Institut Pasteur, before 2015**

In early October 2020, a group of German doctors discovered the existence of a patent for the invention of COVID-19 testing, US patent US 2015/622,407 P, filed by Richard Rothschild, with a date of priority as of October 13, 2015.

#### Patent title: <u>SYSTEM AND METHOD FOR TESTING FOR COVID-19</u>

Related U.S. Application Data:

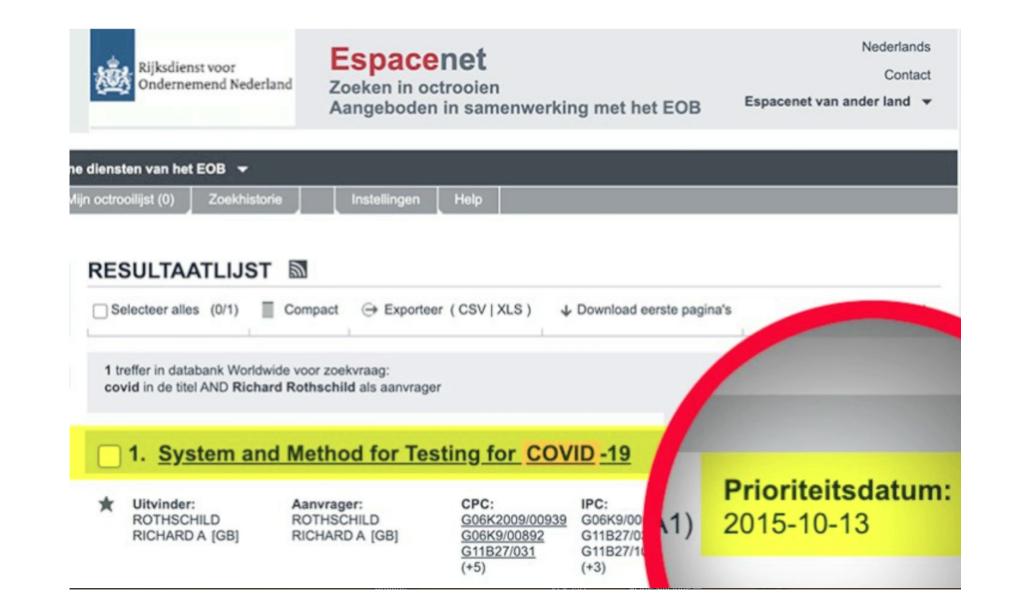
(63) Continuation - in - part of application No. 16/704,844, filed on Dec. 5, 2019, which is a continuation of application No. 16/273,141, filed on Feb. 11, 2019, now Pat. No. 10,522,188, which is a continuation of application No. 15/495,485, filed on Apr. 24, 2017, now Pat. No. 10,242,713, which is a continuation of application No. 15/293,211, filed on Oct. 13, 2016, now abandoned. (60) Provisional application No. 62/240,783, filed on Oct. 13, 2015.

#### The first patent was therefore filed on October 13, 2015

#### ABSTRACT

A method is provided for acquiring and transmitting biometric data (e.g., vital signs) of a user, where the data is analyzed to determine whether the user is suffering from a viral infection, such as COVID – 19.

#### **COVID 19 tests are therefore used to detect COVID-19 viral infection in patients**





#### (19) United States

#### (12) Patent Application Publication (10) Pub. No.: US 2020/0279585 A1 Rothschild

#### (54) SYSTEM AND METHOD FOR TESTING FOR COVID-19

- (71) Applicant: Richard A. Rothschild, London (GB)
- (72)Inventor: Richard A. Rothschild, London (GB)
- (21) Appl. No.: 16/876,114
- (22)Filed: May 17, 2020

#### **Related U.S. Application Data**

- (63)Continuation-in-part of application No. 16/704,844, filed on Dec. 5, 2019, which is a continuation of application No. 16/273,141, filed on Feb. 11, 2019, now Pat. No. 10,522,188, which is a continuation of application No. 15/495,485, filed on Apr. 24, 2017, now Pat. No. 10,242,713, which is a continuation of application No. 15/293,211, filed on Oct. 13, 2016, now abandoned.
- (60) Provisional application No. 62/240,783, filed on Oct. 13, 2015.

#### **Publication Classification**

(51) Int. Cl.

G11B 27/10	(2006.01)
G11B 27/031	(2006.01)

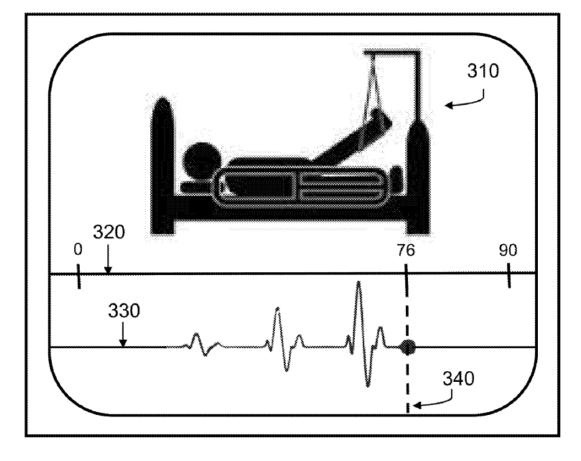
#### Sep. 3, 2020 (43) **Pub. Date:**

G06K 9/00	(2006.01)
H04N 5/76	(2006.01)
H04N 9/82	(2006.01)
G16H 40/63	(2006.01)

(52) U.S. Cl. CPC ..... G11B 27/10 (2013.01); G11B 27/031 (2013.01); G06K 9/00892 (2013.01); G06K 2009/00939 (2013.01); H04N 9/8205 (2013.01); G11B 27/102 (2013.01); G16H 40/63 (2018.01); H04N 5/76 (2013.01)

#### (57)ABSTRACT

A method is provided for acquiring and transmitting biometric data (e.g., vital signs) of a user, where the data is analyzed to determine whether the user is suffering from a viral infection, such as COVID-19. The method includes using a pulse oximeter to acquire at least pulse and blood oxygen saturation percentage, which is transmitted wirelessly to a smartphone. To ensure that the data is accurate, an accelerometer within the smartphone is used to measure movement of the smartphone and/or the user. Once accurate data is acquired, it is uploaded to the cloud (or host), where the data is used (alone or together with other vital signs) to determine whether the user is suffering from (or likely to suffer from) a viral infection, such as COVID-19. Depending on the specific requirements, the data, changes thereto, and/or the determination can be used to alert medical staff and take corresponding actions.



#### Le brevet US 62240783 P a été déposé le 13 octobre 2015 par Richard A ROTHSCHILD

Dossier mondial	
Demandeurs	ROTHSCHILD RICHARD A [GB] +
Inventeurs	ROTHSCHILD RICHARD A [GB] +
Classifications	
CIB	G06K9/00; G11B27/031; G11B27/10; G16H40/63; H04N5/76; H04N9/82;
CPC	G06K9/00892 (US); G11B27/031 (US); G11B27/10 (US); G11B27/102 (US); G16H40/63 (EP,US); G16H40/67 (EP); G16H50/20 (EP); H04N5/76 (EP,US); H04N9/8205 (EP,US); G06K2009/00939 (US);
Priorités	US201562240783P·2015-10-13; US201615293211A·2016-10-13; US201715495485A·2017-04- 24; US201916273141A·2019-02-11; US201916704844A·2019-12-05; US202016876114A·2020- 05-17
Demande	US202016876114A·2020-05-17
Publication	US2020279585A1·2020-09-03
Publié en tant que	US2020279585A1

# What the COVID-19 Tests Patent and the 2017 COVID-19 Tests Sales tell Us

The Institut Pasteur, WHO, all Western health agencies, governments of Western countries, and pharmaceutical companies, had therefore programmed the COVID 19 epidemic, before 2015, when the COVID-19 test patent was filed.

Moreover, to add to the horror and the lies, we come to learn that the tests had been sold in 2017 to a large number of countries for sums of over \$ 10 billion.

#### Hold up à 1h : 52 : 01

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litional Product in	nformation: Inst	truments used in c	clinical laboratories for In Vitro	o Diagnosis. C	olorimetric	end tidal CO2 det	ector, sizes compati	ible with child and a	dult
lotracheal tube. Sir	÷								
egory: COVID-19	Test kits/ Instru	iments, apparatus	s used in Diagnostic Testing	9					
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Reporter European Union United States Germany	TradeFlow Export Export	(\$1,176,454.27K ), ints and apparatus ProductCode 902780 902780	China (\$647,604.66K ). imports by country in 2017 Product Description COVID-19 Diagnostic Test instruments and apparatus COVID-19 Diagnostic Test instruments and apparatus COVID-19 Diagnostic Test instruments and apparatus COVID-19 Diagnostic Test	Year 2017 2017		Partner World World	Trade Value 1000USD 2,646,826.94 2,311,980.25	Quantity	Quantity Unit
Germany (\$2,152,11	TradeFlow Export Export Export	(\$1,176,454.27K ), ints and apparatus ProductCode 902780 902780 902780	China (\$647,604.66K). imports by country in 2017 Product Description COVID-19 Diagnostic Test instruments and apparatus COVID-19 Diagnostic Test instruments and apparatus COVID-19 Diagnostic Test instruments and apparatus COVID-19 Diagnostic Test instruments and apparatus COVID-19 Diagnostic Test	Year 2017 2017 2017		Partner World World World	Trade Value 1000USD 2,646,826.94 2,311,980.25 2,152,116.86	Quantity	Quantity Unit

## The virus responsible for the COVID-19 disease is not a Chinese virus that escaped from the P4 laboratory in Wuhan

The incredible discovery of the COVID-19 test patent, provides us with an answer on the non-involvement of China in the origin of the epidemic, which we have tried to attribute to an accidental leak of the Covid-19 virus from the Wuhan P4 laboratory, without having any proof.

In February 2017, a delegation from the French government and the Institut Pasteur traveled to Wuhan to inaugurate the new P4 laboratory in Wuhan as part of a collaboration between France and China. On the following photo we recognize Elizabeth Guigou, Marisol Touraine, then Minister of Health, Yves Lévy, husband of Agnès Buzyn, who was director of INSERM, at that time, Bernard Cazeneuve, Minister of the Interior, and a director of the Institut Pasteur.

This visit took place on February 23, 2017, as shown in the photo.

There was a lot of hype in the press to get everyone to believe in a real scientific collaboration between Chinese scientists at the P4 laboratory in Wuhan and the Institut Pasteur. In fact this collaboration never took place.

In February 2017, these people knew that the virus responsible for the COVID-19 disease was already manufactured by the Institut Pasteur, before 2015, and this visit had only one goal: to blame the Chinese on the origin of this virus and the false pandemic.



VIRAL IMMUNOLOGY, Volume 18, Number 2, 2005 © Mary Ann Liebert, Inc. Pp. 317-326

Review

#### Live Attenuated Measles Vaccine as a Potential Multivalent Pediatric Vaccination Vector

#### **FRÉDÉRIC TANGY<sup>1</sup> and HUSSEIN Y. NAIM<sup>2</sup>**

(1- Unité des Virus Lents, CNRS URA 1930, Institut Pasteur, Paris, France. 2- Berna Biotech LTD, Rehhagstrasse 79, 3018 Bern, Switzerland)

#### **ABSTRACT**

Live attenuated RNA viruses make highly efficient vaccines. Among them is the live attenuated **measles virus (MV)** vaccine that has been given to a very large number of children and has been shown to be highly efficacious and safe. MV vaccine induces a life-long immunity after a single injection or two low-dose injections. It is easily produced on a large scale in most countries and can be distributed at low cost. Reversion to pathogenicity bas never been observed with this vaccine. For all of these characteristics, developing of MV vaccine vector as a multivalent vaccine to immunize children against both measles and other infectious agents such as human immunodeficiency virus (HIV), flaviviruses, or malaria might be very promising for worldwide use. As MV vaccine is inexpensive to produce, the generation of recombinant vaccines may remain affordable and attractive for the developing world. In this article, we describe the development of MV vector and present some recent data showing the capacity of recombinant MV vaccine to express various proteins from HIV and West Nile virus. In addition, the ability of recombinant MV to induce specific immune responses against these different pathogens are presented and discussed.

Interview with Doctor Frédéric Tangy Paris-Match article from April 9-15, 2020

To read this interview, see DOCUMENT 3 and 4

#### Extract from Document 4

## Elaboration of Covid-19 vaccine according to Dr Frédéric Tangy

The complete and detailed «recipe» for one Covid 19 vaccine, was given to us by Dr Frédéric Tangy, head of Vaccine Innovation at the Institut Pasteur in Paris, in an interview with the newspaper Paris-Match, in the 9-15 edition April 2020 (see <u>Document 4</u>).

Thus, as explained perfectly to us by Dr. Frédéric <u>Tangy - who is decidedly very</u> talkative - the spike glycoprotein of Covid-19, which contains <u>the 4 RNA sequences</u> of <u>HIV - which</u> is clear from the group's analysis of <u>Indian researchers</u>, but was hidden (like malaria genome) by researchers at the Institut Pasteur - is intended, he said, to induce immunity in the vaccine, serving as an antigen after insertion into the genome of the attenuated measles virus ( who remember it is an RNA). But, obviously, it does not tell us that the viral nucleic acids inserted into the genome of the aster virus are those of HIV. And, since it is not in the Sars-CoV-2 coronavirus genome, one wonders where it came from.

It should be noted that Dr. Frédéric Tangy gave this interview a few days before that of Pr Luc Montagnier.

# From Covid-19 to Covid-19 Vaccines

## From Covid-19 to Covid-19 Vaccines

## Covid-19

## Insertion of Covid-19 genome into the genome of a viral vector

(ChAdOx1chimpanzee DNA adenovirus) See Publication DOCUMENT 23 USB Jenner Institute



**Adrian Hill** 

## **Covid-19 vaccines**

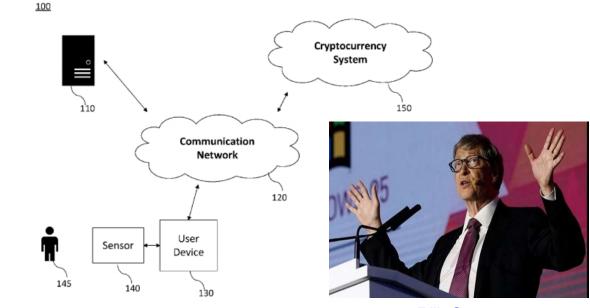
ChAdOx1 nCoV-19 (GSK, Sanofi)

Insertion of tracing nanoparticles in the vaccine vial to be injected into the human body together with the vaccine

US Patent WO 2020/060606 A1 PCT/US20 19/038084 Microsoft

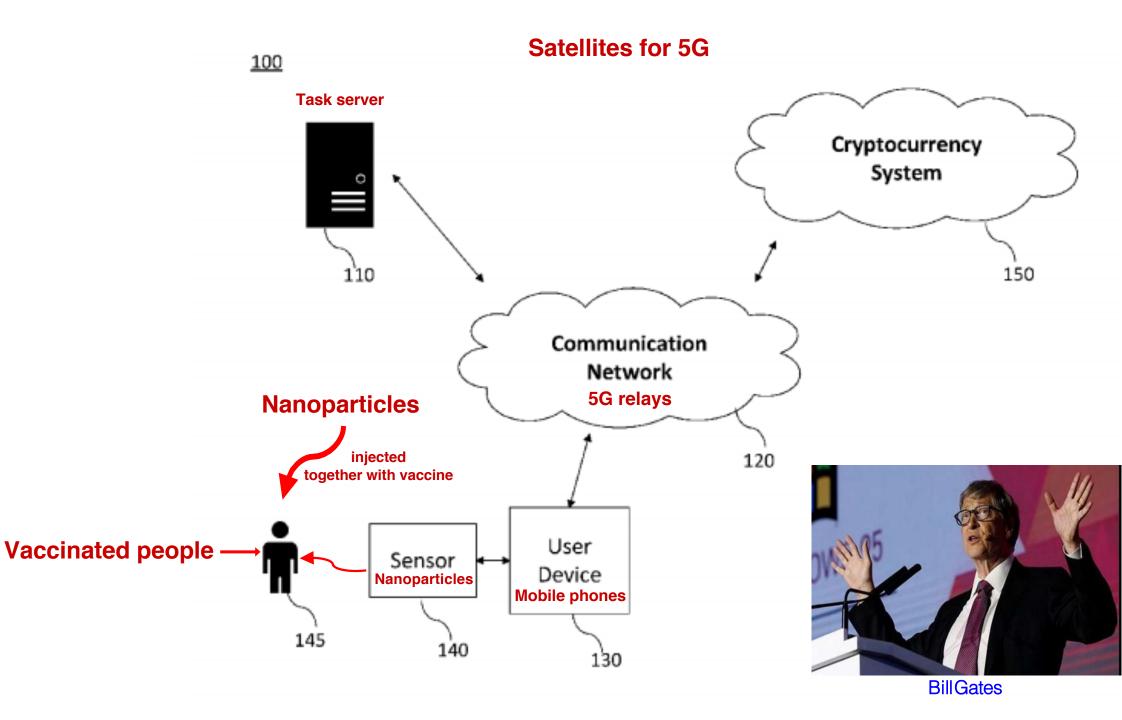
## **Final vaccine**

NANOPARTICLES OF Covid-19 VACCINES CRYPTOCURRENCY SYSTEM USING BODY ACTIVITY DATA



**Bill Gates** 

## **NANOPARTICLES of Covid-19 VACCINES**



## Nanoparticles and the permanent control of vaccinated people

The **nanoparticles** described in the Microsoft patent (US Patent WO 2020/060606 A1) are **sensors** which **must be diffused in the body of the vaccinated person**, **in order** to be able **to detect it** 

Introduced into the vaccine vial, they are injected into the body, together with the vaccine, at the time of vaccination

Once they are in the body, they cannot be gotten rid of, unlike a subcutaneous digital tracing microchip. From this moment, the vaccinated people will be detectable by any mobile phone located nearby.

Mobile phones are connected to the internet by 5G

5G relays allow this communication through satellites 5G.

The vaccinated people will have lost definitely all freedom in their existence

Are 160 Covid-19 vaccines really in development?

According to information provided by the NIH and WHO, 160 vaccines against Covid-19 are under development

The list of the 160 candidates for Covid-19 vaccines in development was compiled by the NIH

> Of these160 candidates only 21 clinical study protocols have been written by the NIH

NIH: National Institute of Health (whose director general is Anthony Fauci) WHO: World Health Organization (whose director general is Tedros Adhanom Ghebreyesus)

## List of candidates for Covid-19 vaccines in development

DRAFT landscape of COVID-19 candidate vaccines – 7 July 2020

#### **21 candidate vaccines in clinical evaluation**

Platform	Type of candidate vaccine	Developer	Coronavirus target	Current stage of clinical evaluation/regulatory status- Coronavirus candidate	Same platform for non-Coronavirus candidates
Inactivated	Inactivated + alum	Sinovac	SARS-CoV2	Phase 3 <u>NCT04456595</u> Phase 1/2 <u>NCT04383574</u> NCT04352608	SARS
Non- Replicating Viral Vector	ChAdOx1-S	University of Oxford/AstraZeneca	SARS-CoV2	Phase 3 <u>ISRCTN89951424</u> Phase2b/3 <u>2020-001228-32</u> Phase 1/2 <u>PACTR202006922165132</u> 2020-001072-15	MERS, influenza, TB, Chikungunya, Zika, MenB, plague
Non- Replicating Viral Vector	Adenovirus Type 5 Vector	CanSino Biological Inc./Beijing Institute of Biotechnology	SARS-CoV2	Phase 2 <u>ChiCTR2000031781</u> Phase 1 <u>ChiCTR2000030906</u>	Ebola
RNA	LNP- encapsulated mRNA	Moderna/NIAID	SARS-CoV2	Phase 2 <u>NCT04405076</u> Phase 1 <u>NCT04283461</u>	multiple candidates
DNA	DNA plasmid vaccine with electroporation	Inovio Pharmaceuticals/ International Vaccine Institute	SARS-CoV2	Phase 1/2 <u>NCT04447781</u> <u>NCT04336410</u>	multiple candidates
DNA	DNA plasmid vaccine	Cadila Healthcare Limited	SARS-CoV2	Phase 1/2 <u>CTRI/2020/07/026352</u> (not yet recruiting)	
Inactivated	Inactivated	Wuhan Institute of Biological Products/Sinopharm	SARS-CoV2	Phase 1/2 ChiCTR2000031809	
Inactivated	Inactivated	Beijing Institute of Biological Products/Sinopharm	SARS-CoV2	Phase 1/2 ChiCTR2000032459	
Protein Subunit	Full length recombinant SARS CoV-2 glycoprotein nanoparticle vaccine adjuvanted with Matrix M	Novavax	SARS-CoV2	Phase 1/2 <u>NCT04368988</u>	RSV; CCHF, HPV, VZV, EBOV
RNA	3 LNP-mRNAs	BioNTech/Fosun Pharma/Pfizer	SARS-CoV2	Phase 1/2 <u>2020-001038-36</u> <u>NCT04368728</u>	
DNA	DNA Vaccine (GX-19)	Genexine Consortium	SARS-CoV2	Phase 1 <u>NCT04445389</u>	
DNA	DNA plasmid vaccine + Adjuvant	Osaka University/ AnGes/ Takara Bio	SARS-CoV2	Phase 1 JapicCTI-205328	

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Inactivated	Inactivated	Institute of Medical Biology	SARS-CoV2	Phase 1	
		, Chinese Academy of Medical Sciences		<u>NCT04412538</u>	
Non- Replicating Viral Vector	Adeno-based	Gamaleya Research Institute	SARS-CoV2	Phase 1 <u>NCT04436471</u> <u>NCT04437875</u>	
Protein Subunit	Native like Trimeric subunit Spike Protein vaccine	Clover Biopharmaceuticals Inc./GSK/Dynavax	SARS-CoV2	Phase 1 <u>NCT04405908</u>	HIV, REV Influenza
Protein Subunit	Adjuvanted recombinant protein (RBD- Dimer)	Anhui Zhifei Longcom Biopharmaceutical/ Institute of Microbiology, Chinese Academy of Sciences	SARS-CoV2	Phase 1 <u>NCT04445194</u>	MERS
Protein Subunit	Recombinant spike protein with Advax™ adjuvant	Vaxine Pty Ltd/Medytox	SARS-CoV2	Phase 1 <u>NCT04453852</u>	
RNA	LNP-nCoVsaRNA	Imperial College London	SARS-CoV2	Phase 1 ISRCTN17072692	EBOV; LASV, MARV, Inf (H7N9), RABV
RNA	mRNA	Curevac	SARS-CoV2	Phase 1 <u>NCT04449276</u>	RABV, LASV, YFV; MERS, InfA, ZIKV, DENV, NIPV
RNA	mRNA	People's Liberation Army (PLA) Academy of Military Sciences/Walvax Biotech.	SARS-CoV2	Phase 1 ChiCTR2000034112	
VLP	Plant-derived VLP	Medicago Inc./ Université Laval	SARS-CoV2	Phase 1 <u>NCT04450004</u> (not yet recruiting)	Flu, Rotavirus, Norovirus, West Nile virus, Cancer

#### FOLLOWING

#### **139 candidate vaccines in preclinical evaluation**

Platform	Type of candidate vaccine	Developer	Coronavirus target	Current stage of clinical evaluation/regulatory status- Coronavirus candidate	Same platform for non- Coronavirus candidates
DNA	DNA vaccine	Ege University	SARS-CoV2	Pre-Clinical	
DNA	DNA plasmid vaccine RBD&N	Scancell/University of Nottingham/ Nottingham Trent University	SARS-CoV2	Pre-Clinical	
DNA	DNA plasmid vaccine S,S1,S2,RBD &N	National Research Centre, Egypt	SARS-CoV2	Pre-Clinical	
DNA	DNA with electroporation	Karolinska Institute / Cobra Biologics (OPENCORONA Project)	SARS-CoV2	Pre-Clinical	
DNA	DNA with electroporation	Chula Vaccine Research Center	SARS-CoV2	Pre-Clinical	
DNA	DNA	Takis/Applied DNA Sciences/Evvivax	SARS-CoV2	Pre-Clinical	
DNA	Plasmid DNA, Needle- Free Delivery	Immunomic Therapeutics, Inc./EpiVax, Inc./PharmaJet	SARS-CoV2	Pre-Clinical	SARS
DNA	DNA vaccine	BioNet Asia	SARS-CoV2	Pre-Clinical	
DNA	msDNA vaccine	Mediphage Bioceuticals/University of Waterloo	SARS-CoV2	Pre-Clinical	
DNA	DNA vaccine	Entos Pharmaceuticals	SARS-CoV2	Pre-Clinical	
DNA	bacTRL-Spike	Symvivo	SARS-CoV2	Pre-Clinical	
Inactivated	Inactivated + alum	KM Biologics	SARS-CoV2	Pre-Clinical	JE, Zika
Inactivated	Inactivated	Selcuk University	SARS-CoV2	Pre-Clinical	
Inactivated	Inactivated whole virus	National Research Centre, Egypt	SARS-CoV2	Pre-Clinical	
Inactivated	Inactivated	Beijing Minhai Biotechnology Co., Ltd.	SARS-CoV2	Pre-Clinical	

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Inactivated	TBD	Osaka University/ BIKEN/ NIBIOHN	SARS-CoV2	Pre-Clinical	
Inactivated	Inactivated + CpG 1018	Sinovac/Dynavax	SARS-CoV2	Pre-Clinical	
Inactivated	Inactivated + CpG 1018	Valneva/Dynavax	SARS-CoV2	Pre-Clinical	
Inactivated	Inactivated	Research Institute for Biological Safety Problems, Rep of Kazakhstan	SARS-CoV2	Pre-Clinical	
Live	Codon deoptimized	Mehmet Ali Aydinlar University /	SARS-CoV2	Pre-Clinical	
Attenuated	live attenuated	Acıbadem Labmed Health Services			
Virus	vaccines	A.S.			
Live Attenuated Virus	Codon deoptimized live attenuated vaccines	Codagenix/Serum Institute of India	SARS-CoV2	Pre-Clinical	HAV, InfA, ZIKV, FMD, SIV, RSV, DENV
Live Attenuated Virus	Codon deoptimized live attenuated vaccines	Indian Immunologicals Ltd/Griffith University	SARS-CoV2	Pre-Clinical	
Non- Replicating Viral Vector	Sendai virus vector	ID Pharma	SARS-CoV2	Pre-Clinical	
Non- Replicating Viral Vector	Adenovirus-based	Ankara University	SARS-CoV2	Pre-Clinical	
Non-	Adeno-associated	Massachusetts Eye and	SARS-CoV2	Pre-Clinical	
Replicating Viral Vector	virus vector (AAVCOVID)	Ear/Massachusetts General Hospital/AveXis	57115 6672		
Non-	MVA encoded VLP	GeoVax/BravoVax	SARS-CoV2	Pre-Clinical	LASV, EBOV,
Replicating Viral Vector					MARV, HIV
Non-	Ad26	Janssen Pharmaceutical Companies	SARS-CoV2	Pre-Clinical	Ebola, HIV, RSV
Replicating Viral Vector					
Non- Replicating Viral Vector	Replication defective Simian Adenovirus (GRAd) encoding SARS-CoV-2 S	ReiThera/LEUKOCARE/Univercells	SARS-CoV2	Pre-Clinical	
Non- replicating viral vector	MVA-S encoded	DZIF – German Center for Infection Research/IDT Biologika GmbH	SARS-CoV2	Pre-clinical	Many
Non- replicating viral vector	MVA-S	IDIBAPS-Hospital Clinic, Spain	SARS-CoV2	Pre-clinical	
Non-	adenovirus-based	Altimmune	SARS-CoV2	Pre-Clinical	influenza
Replicating Viral Vector	NasoVAX expressing SARS2-CoV spike protein				
Non- Replicating	[E1-, E2b-, E3-] hAd5- COVID19-	ImmunityBio, Inc. & NantKwest, Inc.	SARS-CoV2	Pre-Clinical	flu, Chik, Zika, EBOV, LASV,
Viral Vector	Spike/Nucleocapsid	Croffou		Dra Clinical	HIV/SIV,Cancer
Non- Replicating Viral Vector	Ad5 S (GREVAX™ platform)	Greffex	SARS-CoV2	Pre-Clinical	MERS
Non-	Oral Ad5 S	Stabilitech Biopharma Ltd	SARS-CoV2	Pre-Clinical	Zika, VZV, HSV-2
Replicating Viral Vector					and Norovirus
Non- Replicating Viral Vector	adenovirus-based + HLA-matched	Valo Therapeutics Ltd	Pan-Corona	Pre-Clinical	
Non- Replicating Viral Vector	peptides Oral Vaccine platform	Vaxart	SARS-CoV2	Pre-Clinical	InfA, CHIKV, LASV, NORV; EBOV, RVF, HBV, VEE
Non- Replicating Viral Vector	MVA expressing structural proteins	Centro Nacional Biotecnología (CNB-CSIC), Spain	SARS-CoV2	Pre-Clinical	Multiple candidates
Non- Replicating Viral Vector	Dendritic cell-based vaccine	University of Manitoba	SARS-CoV2	Pre-Clinical	

#### DISCLAIMER:

Non- Replicating Viral Vector	parainfluenza virus 5 (PIV5)-based vaccine expressing the spike	University of Georgia/University of Iowa	SARS-CoV2	Pre-Clinical	MERS
	protein				
Non-	Recombinant	Bharat Biotech/Thomas Jefferson	SARS-CoV2	Pre-Clinical	HeV, NiV, EBOV,
Replicating	deactivated rabies	University			LASSA, CCHFV,
Viral Vector	virus containing S1	,			MERS
Non-	Influenza A H1N1	National Research Centre, Egypt	SARS-CoV2	Pre-Clinical	
Replicating	vector	National Research Centre, Egypt			
Viral Vector	Vector				
	Inactivated Flu-based	National Contar for Constin		Dro Clinical	
Non-		National Center for Genetic	SARS-CoV2	Pre-Clinical	
Replicating	SARS-CoV2 vaccine +	Engineering and Biotechnology			
Viral Vector	Adjuvant	(BIOTEC) /GPO, Thailand			
Protein	Recombinant S	Izmir Biomedicine and Genome	SARS-CoV2	Pre-Clinical	
Subunit	protein	Center			
Protein	Peptide + novel	Bogazici University	SARS-CoV2	Pre-Clinical	
Subunit	adjuvant				
Protein	S subunit intranasal	University of Virginia	SARS-CoV2	Pre-Clinical	
Subunit	liposomal formulation				
	with GLA/3M052 adjs.				
Protein	Subunit	Helix Biogen Consult, Ogbomoso &	SARS-CoV2	Pre-Clinical	
	Suburnt		SARS-CUVZ	FIE-CIIIICal	
Subunit		Trinity Immonoefficient Laboratory,			
		Ogbomoso, Oyo State, Nigeria.			
Protein	Protein Subunit	National Research Centre, Egypt	SARS-CoV2	Pre-Clinical	
Subunit	S,N,M&S1 protein				
Protein	Protein Subunit	University of San Martin and	SARS-CoV2	Pre-Clinical	
Subunit		CONICET, Argentina			
Protein	RBD protein fused	Chulalongkorn University/GPO,	SARS-CoV2	Pre-Clinical	
Subunit	with Fc of IgG + Adj.	Thailand			
Protein	Capsid-like Particle	AdaptVac (PREVENT-nCoV	SARS-CoV2	Pre-Clinical	
	Capsiu-like Particle	· · ·	3AN3-C0V2	FIE-CIIIICal	
Subunit		consortium)			
Protein	Drosophila S2 insect	ExpreS2ion	SARS-CoV2	Pre-Clinical	
Subunit	cell expression system				
	VLPs				
Protein	Peptide antigens	IMV Inc	SARS-CoV2	Pre-Clinical	
Subunit	formulated in LNP				
Protein	S protein	WRAIR/USAMRIID	SARS-CoV2	Pre-Clinical	
Subunit					
Protein	S protein +Adjuvant	National Institute of Infectious	SARS-CoV2	Pre-Clinical	Influenza
Subunit		Disease, Japan/Shionogi/UMN	57 113 60 72		innachza
Suburnt		Pharma			
Ductoin				Dro. Clinical	
Protein	VLP-recombinant	Osaka University/ BIKEN/ National	SARS-CoV2	Pre-Clinical	
Subunit	protein + Adjuvant	Institutes of Biomedical Innovation,			
		Japan			
Protein	microneedle arrays S1	Univ. of Pittsburgh	SARS-CoV2	Pre-Clinical	MERS
Subunit	subunit				
Protein	Peptide	Vaxil Bio	SARS-CoV2	Pre-Clinical	
Subunit					
Protein	Adjuvanted protein	Biological E Ltd	SARS-CoV2	Pre-Clinical	
Subunit	subunit (RBD)		C, 110 COV2		
	, ,	Elow Phorma Inc		Dro Clinical	Ebolo Markey
Protein	Peptide	Flow Pharma Inc	SARS-CoV2	Pre-Clinical	Ebola, Marburg,
Subunit					HIV, Zika,
					Influenza, HPV
					therapeutic
					vaccine,
					BreastCA
					vaccine
Protein	S protein	AJ Vaccines	SARS-CoV2	Pre-Clinical	
		Conoroy/Enilyou		Dro Clinical	
Subunit	li lan an airth	Generex/EpiVax	SARS-CoV2	Pre-Clinical	Influenza, HIV,
Subunit Protein	li-Key peptide	, ,			SARS-CoV
Subunit Protein Subunit					
Subunit Protein Subunit	li-Key peptide S protein	EpiVax/Univ. of Georgia	SARS-CoV2	Pre-Clinical	H7N9
Subunit Protein Subunit Protein			SARS-CoV2	Pre-Clinical	
Subunit Protein Subunit Protein Subunit			SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein	S protein	EpiVax/Univ. of Georgia			
Subunit Protein Subunit Protein Subunit Protein Subunit Protein	S protein Protein Subunit EPV-	EpiVax/Univ. of Georgia			

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Protein Subunit	gp-96 backbone	Heat Biologics/Univ. Of Miami	SARS-CoV2	Pre-Clinical	NSCLC, HIV, malaria, Zika
Protein	Molecular clamp	University of	SARS-CoV2	Pre-Clinical	Nipah, influenza
Subunit	stabilized Spike protein	Queensland/GSK/Dynavax	SAN3-C0V2	Fie-Chincal	Ebola, Lassa
Protein	Peptide vaccine	FBRI SRC VB VECTOR,	SARS-CoV2	Pre-Clinical	Ebola
Subunit		Rospotrebnadzor, Koltsovo			
Protein	Subunit vaccine	FBRI SRC VB VECTOR,	SARS-CoV2	Pre-Clinical	
Subunit		Rospotrebnadzor, Koltsovo			
Protein	S1 or RBD protein	Baylor College of Medicine	SARS-CoV2	Pre-Clinical	SARS
Subunit					
Protein	Subunit protein, plant	iBio/CC-Pharming	SARS-CoV2	Pre-Clinical	
Subunit	produced	,			
Protein	Recombinant protein,	Saint-Petersburg scientific research	SARS-CoV2	Pre-Clinical	
Subunit	nanoparticles (based	institute of vaccines and serums			
	on S-protein and				
	other epitopes)				
Protein	COVID-19 XWG-03	Innovax/Xiamen Univ./GSK	SARS-CoV2	Pre-Clinical	HPV
Subunit	truncated S (spike)				
Cubant	proteins				
Protein	Adjuvanted	VIDO-InterVac, University of	SARS-CoV2	Pre-Clinical	
Subunit	microsphere peptide	Saskatchewan			
Protein	Synthetic Long	OncoGen	SARS-CoV2	Pre-Clinical	
Subunit	Peptide Vaccine	oneoden	5, 113 60 72		
Suburne	candidate for S and M				
	proteins				
Protein	Oral E. coli-based	MIGAL Galilee Research Institute	SARS-CoV2	Pre-Clinical	
Subunit	protein expression	MIGAL Gamee Research Institute	SANS-COVZ	Fle-Chinical	
Suburn	system of S and N				
	proteins				
Protein		LakePharma Inc	SARS-CoV2	Pre-Clinical	
Subunit	Nanoparticle vaccine	LakePharma, Inc.	SARS-CUVZ	Pre-Clinical	
Protein	Plant-based subunit	Baiya Phytopharm/ Chula Vaccine	SARS-CoV2	Pre-Clinical	
Subunit	(RBD-Fc + Adjuvant)	Research Center			
Protein	OMV-based vaccine	Quadram Institute Biosciences	SARS-CoV2	Pre-Clinical	Flu A, plague
Subunit					
Protein	OMV-based vaccine	BiOMViS Srl/Univ. of Trento	SARS-CoV2	Pre-Clinical	
Subunit					
Protein	structurally modified	Lomonosov Moscow State	SARS-CoV2	Pre-Clinical	rubella,
subunit	spherical particles of	University			rotavirus
	the tobacco mosaic				
	virus (TMV)				
Protein	Spike-based	University of Alberta	SARS-CoV2	Pre-Clinical	Hepatitis C
Subunit					
Protein	Recombinant S1-Fc	AnyGo Technology	SARS-CoV2	Pre-Clinical	
Subunit	fusion protein				
Protein	Recombinant protein	Yisheng Biopharma	SARS-CoV2	Pre-Clinical	
Subunit					
Protein	Recombinant S	Vabiotech	SARS-CoV2	Pre-Clinical	
Subunit	protein in IC-BEVS				
Protein	Orally delivered, heat	Applied Biotechnology Institute,	SARS-CoV2	Pre-Clinical	
Subunit	stable subunit	Inc.			
Protein	S-2P protein + CpG	Medigen Vaccine Biologics	SARS-CoV2	Pre-Clinical	
Subunit	1018	Corporation/NIAID/Dynavax			
Protein	Peptides derived from	Axon Neuroscience SE	SARS-CoV2	Pre-Clinical	
Subunit	Spike protein				
Protein	Protein Subunit	MOGAM Institute for Biomedical	SARS-CoV2	Pre-Clinical	
Subunit		Research, GC Pharma			
Protein	RBD-based	Neovii/Tel Aviv University	SARS-CoV2	Pre-Clinical	
Subunit					
Protein	RBD-based	Kentucky Bioprocessing, Inc	SARS-CoV2	Pre-Clinical	
Subunit		terreacy proprocessing, inc	<i>C,</i>		
Protein	Outer Membrane	Intravacc/Epivax	SARS-CoV2	Pre-Clinical	
Subunit		πιταναςς/ ερινάχ	JANJ-CUVZ		
Subuill	Vesicle (OMV)- subunit				
Protein	Outer Membrane	Intravacc/Epivax	SARS-CoV2	Pre-Clinical	
Drotor					1

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Protein	Spike-based (epitope	ImmunoPrecise/LiteVax BV	SARS-CoV2	Pre-Clinical	
Subunit Replicating Viral Vector	screening) YF17D Vector	KU Leuven	SARS-CoV2	Pre-Clinical	
Replicating Viral Vector	Measles Vector	Cadila Healthcare Limited	SARS-CoV2	Pre-Clinical	
Replicating Viral Vector	Measles Vector	Institute Pasteur/Themis/Univ. of Pittsburg Center for Vaccine Research/Merck	SARS-CoV2	Pre-Clinical	West nile, chik, Ebola, Lassa, Zika
Replicating Viral Vector	Measles Vector	FBRI SRC VB VECTOR, Rospotrebnadzor, Koltsovo	SARS-CoV2	Pre-Clinical	
Replicating Viral Vector	Measles Virus (S, N targets)	DZIF – German Center for Infection Research/CanVirex AG	SARS-CoV2	Pre-clinical	Zika, H7N9, CHIKV
Replicating Viral Vector	Horsepox vector expressing S protein	Tonix Pharma/Southern Research	SARS-CoV2	Pre-Clinical	Smallpox, monkeypox
Replicating Viral Vector	Live viral vectored vaccine based on attenuated influenza virus backbone (intranasal)	BiOCAD and IEM	SARS-CoV2	Pre-Clinical	Influenza
Replicating Viral Vector Replicating	Recombinant vaccine based on Influenza A virus, for the prevention of COVID- 19 (intranasal) Attenuated Influenza	FBRI SRC VB VECTOR, Rospotrebnadzor, Koltsovo Fundação Oswaldo Cruz and	SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical	Influenza
Viral Vector	expressing an antigenic portion of the Spike protein	Instituto Buntantan			
Replicating Viral Vector	Influenza vector expressing RBD	University of Hong Kong	SARS-CoV2	Pre-Clinical	
Replicating Viral Vector	Replication- competent VSV chimeric virus technology (VSV∆G) delivering the SARS- CoV-2 Spike (S) glycoprotein.	IAVI/Merck	SARS-CoV2	Pre-Clinical	Ebola, Marburg
Replicating Viral Vector	VSV-S	University of Western Ontario	SARS-CoV2	Pre-Clinical	HIV, MERS
Replicating Viral Vector	VSV vector	FBRI SRC VB VECTOR, Rospotrebnadzor, Koltsovo	SARS-CoV2	Pre-Clinical	
Replicating Viral Vector	VSV-S	Israel Institute for Biological Research/Weizmann Institute of Science	SARS-CoV2	Pre-Clinical	
Replicating Viral Vector	M2-deficient single replication (M2SR) influenza vector	UW–Madison/FluGen/Bharat Biotech	SARS-CoV2	Pre-Clinical	influenza
Replicating Viral Vector	Newcastle disease virus vector (NDV- SARS-CoV-2/Spike)	Intravacc/ Wageningen Bioveterinary Research/Utrecht Univ.	SARS-CoV2	Pre-Clinical	
Replicating Viral Vector	Avian paramyxovirus vector (APMV)	The Lancaster University, UK	SARS-CoV2	Pre-Clinical	
RNA	mRNA	Selcuk University	SARS-CoV2	Pre-Clinical	
RNA	LNP-mRNA	Translate Bio/Sanofi Pasteur	SARS-CoV2	Pre-Clinical	
RNA	LNP-mRNA	CanSino Biologics/Precision NanoSystems	SARS-CoV2	Pre-Clinical	
RNA	LNP-encapsulated mRNA cocktail encoding VLP	Fudan University/ Shanghai JiaoTong University/RNACure Biopharma	SARS-CoV2	Pre-Clinical	
RNA	LNP-encapsulated mRNA encoding RBD	Fudan University/ Shanghai JiaoTong University/RNACure Biopharma	SARS-CoV2	Pre-Clinical	
RNA	Replicating Defective SARS-CoV-2 derived RNAs	Centro Nacional Biotecnología (CNB-CSIC), Spain	SARS-CoV2	Pre-Clinical	
RNA	LNP-encapsulated mRNA	University of Tokyo/ Daiichi-Sankyo	SARS-CoV2	Pre-Clinical	MERS

#### DISCLAIMER:

		I OLLOWIN			
RNA	Liposome- encapsulated mRNA	BIOCAD	SARS-CoV2	Pre-Clinical	
RNA	Several mRNA candidates	RNAimmune, Inc.	SARS-CoV2	Pre-Clinical	
RNA	mRNA	FBRI SRC VB VECTOR, Rospotrebnadzor, Koltsovo	SARS-CoV2	Pre-Clinical	
RNA	mRNA	China CDC/Tongji University/Stermina	SARS-CoV2	Pre-Clinical	
RNA	mRNA	Arcturus/Duke-NUS	SARS-CoV2	Pre-Clinical	multiple candidates
RNA	LNP-mRNA	Chula Vaccine Research Center/University of Pennsylvania	SARS-CoV2	Pre-Clinical	
RNA	mRNA in an intranasal delivery system	eTheRNA	SARS-CoV2	Pre-Clinical	
RNA	mRNA	Greenlight Biosciences	SARS-CoV2	Pre-Clinical	
RNA	mRNA	IDIBAPS-Hospital Clinic, Spain	SARS-CoV2	Pre-Clinical	
VLP	VLP	Middle East Technical University	SARS-CoV2	Pre-Clinical	
VLP	Enveloped Virus-Like Particle (eVLP)	VBI Vaccines Inc.	SARS-CoV-2, SARS-CoV, & MERS-CoV	Pre-Clinical	CMV, GBM, Zika
VLP	S protein integrated in HIV VLPs	IrsiCaixa AIDS Research/IRTA- CReSA/Barcelona Supercomputing Centre/Grifols	SARS-CoV2	Pre-Clinical	
VLP	VLP + Adjuvant	Mahidol University/ The Government Pharmaceutical Organization (GPO)/Siriraj Hospital	SARS-CoV2	Pre-Clinical	
VLP	Virus-like particles, lentivirus and baculovirus vehicles	Navarrabiomed, Oncoimmunology group	SARS-CoV2	Pre-Clinical	
VLP	Virus-like particle, based on RBD displayed on virus-like particles	Saiba GmbH	SARS-CoV2	Pre-Clinical	
VLP	ADDomerTM multiepitope display	Imophoron Ltd and Bristol University's Max Planck Centre	SARS-CoV2	Pre-Clinical	
VLP	Unknown	Doherty Institute	SARS-CoV2	Pre-Clinical	
VLP	VLP	OSIVAX	SARS-CoV1 SARS-CoV2	Pre-Clinical	
VLP	eVLP	ARTES Biotechnology	SARS-CoV2	Pre-Clinical	malaria
VLP	VLPs peptides/whole virus	Univ. of Sao Paulo	SARS-CoV2	Pre-Clinical	
Unknown	Unknown	Tulane University	SARS-CoV2	Pre-Clinical	

#### DISCLAIMER:

# The time required to develop a new vaccine since the discovery of a new virus until the Marketing Authorization **At least 15 years**

- Identification of the virus responsible for the epidemic: 1 year
- Development of a vaccine: 8 years, according to Dr Frédéric Tangy in Paris-Match from 14-20 May 2020
- Preclinical studies : analytical, galenical, and toxicological in animals: 1 year
- Study in humans:
  - Phase I: in healthy volunteers after favorable opinion of Protection Committee, and <u>Free</u> an <u>Informed Consent</u> of healthy voluntary subjects: 1 year
    - Phase II: in 100 to 1000 subjects after favorable opinion of Protection Committee and Free and Informed Consent of all subjects: 1 to 2 years
  - Phase III: in 10 000 to 100 000 subjects or more <u>after favorable opinion of Protection</u> <u>Committee</u> and <u>Free</u> and <u>Informed Consent</u> of all subjects: 2 years

During development you cannot go from one study phase to the next, without having the results of the previous phase

## Protocols for clinical studies of 2 Covid-19 vaccines ChAdOx1 nCoV-19 and mRNA-1273 vaccines (Written by the N.I.H.)

# 1- Protocol of the University of Oxford / Astra Zeneca Phase I study with the ChAdOx1 nCoV-19 vaccine

- **Sponsor** of the study: Research Services, University Offices Wellington Square, Oxford, 1200, United Kingdom
- Country of the study: South Africa
- Summary of the study: A Phase I/II, double-blinded, placebo-controlled, individually randomized trial to assess safety, immunogenicity and efficacy of the candidate Coronavirus disease (COVID-19) vaccine ChAdOx1 nCoV-19 in adults aged 18-65 years living with and without HIV in South Africa. The vaccine or placebo will be administered via an intramuscular injection into the deltoid muscle of the non dominant arm. A total of 2000 participants will be enrolled into the trial; 1950 HIV-uninfected and 50 people living with HIV. There will be 4 trial groups, group 1 (n=50; intensive safety & immunogenicity cohort, HIV negative), group 2a (n=250; safety, intense immunogenicity & efficacy), group 2b (n=1650; safety, immunogenicity & vaccine efficacy) and group 3 (n=50, intensive safety & immunogenicity cohort, HIV positive). Participants will be followed up for 12 months after enrollment.
- **Ethics Approval:** approval given on May, 21, 2020, by University of the Witwatersrand Human Research Ethics Committee Medical, 31 Princess of Wales Terrace, Parktown, Johannesburg, 2193, South Africa
- 2000 healthy volunteer subjects aged between 18 and 65 years
- Starting of the study: June 24, 2020
- End of the study: December 31, 2021

(Written by the N.I.H.) Following

- 2 Protocol of the University of Oxford / Astra Zeneca Phase II / III study with the ChAdOx1 nCoV-19 vaccine
  - Title of the study: A phase 2/3 study to determine the efficacy, safety and immunogenicity of the candidate Coronavirus Disease (COVID-19) vaccine ChAdOx1nCoV-19
  - Country of the study: United-Kingdom
  - Sponsor of the study: Research Services, University Offices Wellington Square, Oxford, 1200, United Kingdom
  - Summary of the study: To evaluate the efficacy of the candidate ChAdOx1nCoV-19 in adults aged 18 and over. To assess the safety of the ChAdOx1nCoV-19 vaccine candidate in adults and children. To assess the safety, tolerability and reactogenicity profile of the ChAdOx1 nCoV-19 candidate
  - Favorable opinion of the Competent Authority: April5, 2020
  - Favorable opinion of the Ethics Committee: April8, 2020
  - 12 390 healthy volunteer subjects divided into 4 age groups: 60 under the age of 18. 60 children aged between 2 and 11 years old. 12,030 adults aged between 18 and 64 years old. 240 subjects aged over 65
  - Starting of the study: May, 2020
  - End of the study: May, 2021

(Written by the N.I.H.) Following

# 3- University of Oxford / Astra Zeneca Phase III study protocol with ChAdOx1 nCoV-19 vaccine

- **Title of the study**: A phase III randomized controlled trial to determine safety, efficacy, and immunogenicity of the non-replicating **ChAdOx1 nCoV-19 vaccine**
- Country of the study: Brazil
- Ethics approval: Approval pending:
  - 1. The National Commission for Research Ethics (Comissão Nacional de Ética em Pesquisa, (CONEP) Brazil
  - 2. Oxford Tropical Research Ethics Committee (OxTREC) UK
- 2000 healthy volunteer subjects aged between 18 and 55 years
- Starting of the study: May 1, 2020
- End of the study: July 31, 2021

(Written by the N.I.H.) Following

#### 4- Protocol for Phase I study of Moderna with their new vaccine mARN-1273

- **Title of the study**: Safety and Immunogenicity Study of 2019-nCoV Vaccine (mRNA-1273) for Prophylaxis of SARS-CoV2 Infection COVID-19. This is a **phase I**, open-label, **dose-ranging clinical trial** in males and nemales, starting at 18 years of age
- Sponsor of the study: National Institute of Allergy and Infectious Diseases (NIAID)
- Country of the study: United States of America (Georgia, Maryland, Washington)

- Summary of the study: This is a phase I, open-label, dose-ranging clinical trial in males and non-pregnant females, starting 18 years of age, inclusive, who are in good health and meet all eligibility criteria. This clinical trial is designed to assess the safety, reactogenicity and immunogenicity of mRNA-1273 manufactured by ModernaTX, Inc. mRNA-1273 is a novel lipid nanoparticle (LNP)-encapsulated mRNA-based vaccine that encodes for a full-length, prefusion stabilized spike (S) protein of SARS-CoV-2. Enrollment will occur at up to 3 domestic clinical research sites. One hundred and fifty-five subjects will be enrolled into one of thirteen cohorts (10 micrograms [mcg], 25 mcg, 50 mcg, 100 mcg, and 250 mcg). Subjects will receive an intramuscular (IM) injection (0.5 milliliters [mL]) of mRNA-1273 on Days 1 and 29 in the deltoid muscle and will be followed through 12 months post second vaccination (Day 394). Follow-up visits will occur 1, 2, and 4 weeks post each vaccination (Days 8, 15, 29, 36, 43, and 57), as well as 3, 6, and 12 months post second vaccination (Days 119, 209, and 394).

- Ethics approval: ???
- 155 healthy volunteer subjects aged between 18 and 99 years
- Starting of the study: March 16, 2020
- End of the study: November 22, 2021

(Written by the N.I.H.) Following

#### 5- Protocol for Phase II study of Moderna with their new vaccine mARN-1273

- Title of the study: A Phase 2a, Randomized, Observer-Blind, Placebo Controlled, Dose-Confirmation Study to Evaluate the Safety, Reactogenicity, and Immunogenicity of mRNA-1273 SARS-COV-2 Vaccine in Adults Aged 18 Years and Older

- Sponsor of the study: Moderna TX, Inc.
- Collaborators: Biomedical Advanced Research and Development Authority
- Country of the study: United States of America .
- Locations: Georgia, Kansas, Missouri, Nebraska, North Carolina, South Dakota, Texas, Utah.
- Ethics approval: Studies a U.S. FDA-regulated Drug Product ???
- 600 healthy volunteer subjects aged between 18 and 55+
- Starting of the study: May 20, 2020
- End of the study: August, 2021

# COVID-19 Vaccine: ChAdOx1 nCoV-19

According to information provided by the NIH and WHO, 160 vaccines against Covid-19 are under development. But, after reviewing Phase 1, 2 and 3 clinical studies, the protocols of which were all written by the NIH, and their advancement, we came to the following conclusion:

## The only vaccine that has been developed and already manufactured for several months is the ChAdOx1 nCoV-19

## All other 159 vaccines are "decoys"

ChAdOx1nCoV-19 is the result of acolaboration between the Institut Pasteur (Sanofi) and the Jenner Institute (AstraZeneca).

In ChAdOx1 nCoV-19, the genome of Covid-19 coronavirus is carried by the Chimpanzee adenovirus ChAdOx1, which serves as a viral vector

## Manufacture of the ChAdOx1 nCoV-19 vaccine from 2018

Astra Zenecca manufactured the ChAdOx1 nCoV-19 vaccine from September 2018, which was the filing date of Microsoft's nanoparticles patent, US Patent WO 2020/060606 A1

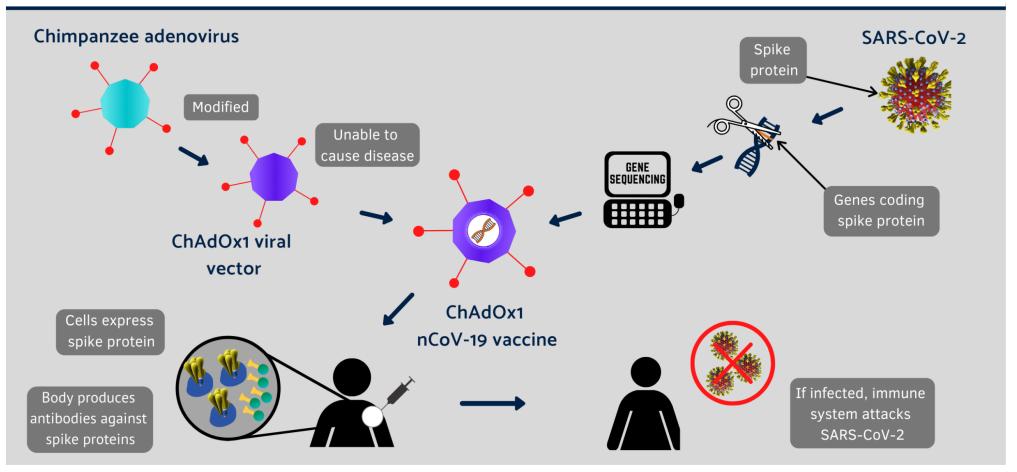
Indeed, the protection of a patent occurs as soon as the patent is filed.

On the diagram on the next page, produced before 2020, the Astra Zenecca laboratory explains how it manufactures its ChAdOx1 nCoV-19 vaccine.

We are struck by the fact that the vaccine which results from the insertion of the Sars-CoV-2 genome into the genome of the vector virus ChAdOx1 is called ChAdOx1 nCoV-19, whereas it should be called ChAdOx1 Sars-CoV -2.

This scheme is deliberately misleading, because the Institut Pasteur wanted to hide the insertion of the AIDS virus in Sars-CoV-2, which they carried out between 2011 and 2015. Indeed, the insertion of 4 HIV1 RNA sequences into the Sars-CoV2 genome leads to an artificial coronavirus Sars nCoV-19, the number 19 indicating that the false pandemic was to be triggered with this artificial virus in 2019.

#### **COVID-19 Oxford Vaccine Trial**



## **COVID-19 Vaccine: ChAdOx1 n-CoV-19**

# In the only vaccine developed and put into production, the genome of the Covid-19 coronavirus is carried by the Chimpanzee adenovirus ChAdOx1,

which serves as a viral vector

Vestida

**ChAdOx1 nCoV-19**: **Covid-19** coronavirus carried by the vector virus ChAdOx1

--- Nanoparticles described in MicrosoftPatent PCT/US2019/038084,which will control you thanks to 5G

-- **Disinfectants:** either **Thimerosal** or **Formaldehyde** and antibiotics

# TREATMENT OF COVID-19 VIRAL INFECTION WITH HYDROXYCHLOROQUINE

Justification for the use of:

- Hydroxychloroquine

- Hydroxychloroquine and Azithromycin (or an antibiotic from the family of macrolides or tetracyclines): see Documents 10 and 11

Why Agnès BUZYN and Olivier VERAN have banned the prescription of Hydroxychloroquine toCovid-19 infected people?

Agnès BUZYN and Yves LEVY know that DNA fragments from the germ of Malaria are inserted into the genome of Covid-19 (see <u>DOCUMENT 3</u>)

Under these conditions, administration of hydroxychloroquine destroys the genome of Covid-19 and stops the infection.

## Additional publications are communicated hereafter:

The full versions of the publications are available on the website www.verite-covid19.fr and designated hereafter by <u>numbered Documents</u> Therapeutic Drug Monitoring 13:496-501 © 1991 Raven Press, Ltd., New York

### Pharmacokinetics of Quinine and Doxycycline in Patients with Acute Falciparum Malaria: A Study in Africa

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Summary: The pharmacokinetics of quinine was investigated in patients with acute falciparum malaria treated with quinine alone or in the presence of doxy-cycline. Twenty-six patients divided into two groups of equal number were enrolled in the study. In the absence of doxycycline, the volume of distribution of quinine (mean  $\pm$  SD) was estimated to be  $1.32 \pm 0.32$  L/kg, and its clearance was  $0.125 \pm 0.47$  L/h/kg, which was only in partial agreement with previously published data. No effect of doxycycline on the pharmacokinetics of quinine was observed. Key Words: Acute falciparum malaria—Quinine—Doxycycline—Pharmacokinetics.

Gaillard et al. Malar J (2015) 14:445 DOI 10.1186/s12936-015-0980-0

## Tetracyclines in malaria

Tiphaine Gaillard<sup>1,2,3</sup>, Marylin Madamet<sup>2,4,5</sup> and Bruno Pradines<sup>1,2,5,6\*</sup>

#### Abstract

Malaria, a parasite vector-borne disease, is one of the greatest health threats in tropical regions, despite the availability of malaria chemoprophylaxis. The emergence and rapid extension of *Plasmodium falciparum* resistance to various anti-malarial drugs has gradually limited the number of potential malaria therapeutics available to clinicians. In this context, doxycycline, a synthetically derived tetracycline, constitutes an interesting alternative for malaria treatment and prophylaxis. Doxycycline is a slow-acting blood schizontocidal agent that is highly effective at preventing malaria. In areas with chloroquine and multidrug-resistant *P. falciparum* parasites, doxycycline has already been successfully used in combination with quinine to treat malaria, and it has been proven to be effective and well-tolerated. Although not recommended for pregnant women and children younger than 8 years of age, severe adverse effects are rarely reported. In addition, resistance to doxycycline is rarely described. Prophylactic and clinical failures of doxycycline have been associated with both inadequate doses and poor patient compliance. The effects of tetracyclines on parasites are not completely understood. A better comprehension of the mechanisms underlying drug resistance would facilitate the identification of molecular markers of resistance to predict and survey the emergence of resistance.

**Keywords:** Malaria, *Plasmodium falciparum*, Anti-malarial drug, Resistance, Tetracycline, Doxycycline, Prophylaxis, Treatment

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ChAdOx1 and MVA based vaccine candidates against MERS-CoV elicit neutralising antibodies and cellular immune responses in mice



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Coronavirus MERS-CoV ChAdOx1 Adenoviral vector MVA Poxviral vector Vaccine Prime boost Vaccination Immunogenicity

#### ABSTRACT

The Middle East respiratory syndrome coronavirus (MERS-CoV) has infected more than 1900 humans, since 2012. The syndrome ranges from asymptomatic and mild cases to severe pneumonia and death. The virus is believed to be circulating in dromedary camels without notable symptoms since the 1980s. Therefore, dromedary camels are considered the only animal source of infection. Neither antiviral drugs nor vaccines are approved for veterinary or medical use despite active research on this area. Here, we developed four vaccine candidates against MERS-CoV based on ChAdOx1 and MVA viral vectors, two candidates per vector. All vaccines contained the full-length spike gene of MERS-CoV; ChAdOx1 MERS vaccines were produced with or without the leader sequence of the human tissue plasminogen activator gene (tPA) where MVA MERS vaccines were produced with tPA, but either the mH5 or F11 promoter driving expression of the spike gene. All vaccine candidates were evaluated in a mouse model in prime only or prime-boost regimens. ChAdOx1 MERS with tPA induced higher neutralising antibodies than ChAdOx1 MERS without tPA. A single dose of ChAdOx1 MERS with tPA elicited cellular immune responses as well as neutralising antibodies that were boosted to a significantly higher level by MVA MERS. The humoral immunogenicity of a single dose of ChAdOx1 MERS with tPA was equivalent to two doses of MVA MERS (also with tPA). MVA MERS with mH5 or F11 promoter induced similar antibody levels; however, F11 promoter enhanced the cellular immunogenicity of MVA MERS to significantly higher magnitudes. In conclusion, our study showed that MERS-CoV vaccine candidates could be optimized by utilising different viral vectors, various genetic designs of the vectors, or different regimens to increase immunogenicity. ChAdOx1 and MVA vectored vaccines have been safely evaluated in camels and humans and these MERS vaccine candidates should now be tested in camels and in clinical trials.

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#### Correlation Between Relative Nasopharyngeal Virus RNA Load and Lymphocyte Count Disease Severity in Patients with COVID-19

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#### Abstract

The aim of this study was to analyze the correlation between dynamic changes in the nasopharyngeal viral load of patients infected with the new coronavirus causing pneumonia and lymphocyte count disease severity. Cases newly diagnosed with COVID-19 at the First Affiliated Hospital of Nanchang University from January 2020 to February 2020 were analyzed retrospectively. Quantitative real-time polymerase chain reaction was used to determine severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) from throat swab sample  $\Delta CT$ values; lymphocyte and lymphocyte subset counts, coagulation system factor levels, myocardial injury indexes, and laboratory biochemical indicators were compared between the mild group and the severe group. The correlation between the relative load of nasopharyngeal SARS-CoV-2 RNA and severe disease symptoms was analyzed. Of the 76 patients, 49 were male and 27 were female. The lymphocyte, CD4<sup>+</sup> T lymphocyte, and  $CD8^+$  T lymphocyte counts all differed significantly between the two groups (p < 0.001), as did differences in interleukin (IL)-2R, IL-6, and IL-8 levels (p=0.022, 0.026, and 0.012, respectively). Moreover, there were significant differences in prothrombin time, D-dimer, and fibrinogen levels between the mild group and the severe group (p = 0.029, 0.006, and <0.001, respectively), and in lactate dehydrogenase and troponin (p < 0.001) and p = 0.007, respectively). SARS-CoV-2 RNA load and lymphocyte count, CD4<sup>+</sup> T lymphocyte count, and  $CD8^+$  T lymphocyte count were linearly negatively correlated (p < 0.001). SARS-CoV-2 RNA load was positively correlated with IL-2R, prothrombin time, lactate dehydrogenase, and hypersensitive troponin T (p = 0.002, p=0.009, and p<0.001, respectively). In addition, the time that it took for the nucleic acid test to turn negative was significantly shorter for patients in the mild group than for those in the severe group (Z = -6.713, p < 0.001). In conclusion, relative SARS-CoV-2 RNA load in the nasopharynx is closely related to COVID-19 severity. If the relative RNA load was higher, the lymphocyte count was lower, organ damage was greater, and the time it took for the nucleic acid test to turn negative was longer.

Keywords: nasopharyngeal virus RNA load, COVID-19, lymphocyte count, organ damage

Interview with Bill Gates Paris-Match April 16-22, 2020 Bill Gates-doctor of the world

To read this interview, see DOCUMENTS 7 and 8