The Whole Truth

Covid-19 Covid-19 Vaccines

Professor Jean-Bernard Fourtillan Doctor Christian Tal Schaller Doctor Serge Rader 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

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Manufactu

1.2m

U. of OX

Investigatio

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 n-CoV-19 vaccine they want to inject in your body contains

ChAdOx1 n-CoV-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

ⁿvestigati

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 bya first patent (2003: European Patent EP1694829 B1 and US Patent US 012.8224A1) from Sars-CoV collected in Hanoi before 2003
 - 2nd Step: Sars-CoV-2 was a continuation of the first US patent US012.8224A1, protected by the second US Patent US8,243,718B2 (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!

Doctor Frédéric Tangy is the father of the Covid-19



Doctor Frédéric Tangy Director of Vaccine Innovation at the Institut Pasteur

Publications related to coronaviruses and vaccines

- 1-2003: Inventor in Patents EP 1 694 829 B1 and US 012.8224 A1
- 2- 2005: Publication: Frédéric TANGY and Hussein Y. Naim. *Live Attenuated Measles Vaccine as a Potential Multivalent Pediatric Vaccination Vector.*

VIRAL IMMUNOLOGY, Volume 18, Number 2, 2005, page 317-326 See 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 contre le coronavirus du SRAS conférée par le vaccin vivant contre la rougeole exprimant la glycoprotéine de pointe.* Virology, Volumes 452–453, March 2014, page 32-41
- 5-2020: Paris-Match article from April 9-15, 2020
- 6-2020: Paris-Match article from May 14-20, 2020

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

3rd Patent in 2019

Patent filed in 2019

International Publication date in 2021

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







Frédéric Tangy

Covid-19: an artificial virus made in France

First Patent US 2007/0128224 A1



(19) United States

(12) Patent Application Publication Van Der Werf et al. (10) Pub. No.: US 2007/0128224 A1 (43) Pub. Date: Jun. 7, 2007

- (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)

Correspondence Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413 (US)

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

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

(30) Foreign Application Priority Data

Dec. 2, 2003	(FR)	 0314151	
Dec. 2, 2003	(FR)	 0314152	

Publication Classification

(51)	Int. Cl		
8) (BS	A61K	39/215	(2006.01)
	C12Q	1/70	(2006.01)
	C07H	21/04	(2006.01)
	C07K	14/165	(2006.01)
	C07K	16/10	(2006.01)
	C12N	5/06	(2006.01)
(52)	US C	1	121/22

(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

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.

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): Sylvie 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

Dec. 2, 2003	(FR)	 03 14151
Dec. 2, 2003	(FR)	 03 14152

(51)	Int. Cl.	
8 - P	C12Q 1/70	(2006.01)
	G01N 33/53	(2006.01)
	G01N 33/542	(2006.01)
	G01N 33/00	(2006.01)
(52)	US CI	125/5· 125/7 1· 125/7 0·

- (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.

(56) References Cited

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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 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

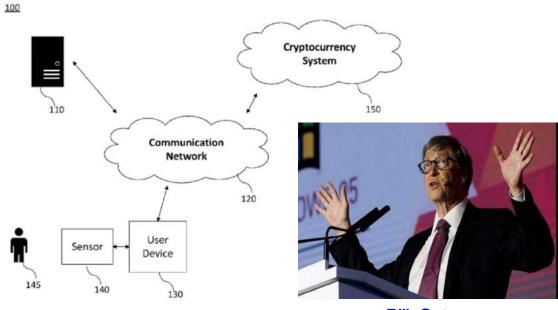
ChAdOx1 nCoV-19 (AstraZeneca, Sanofi)

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

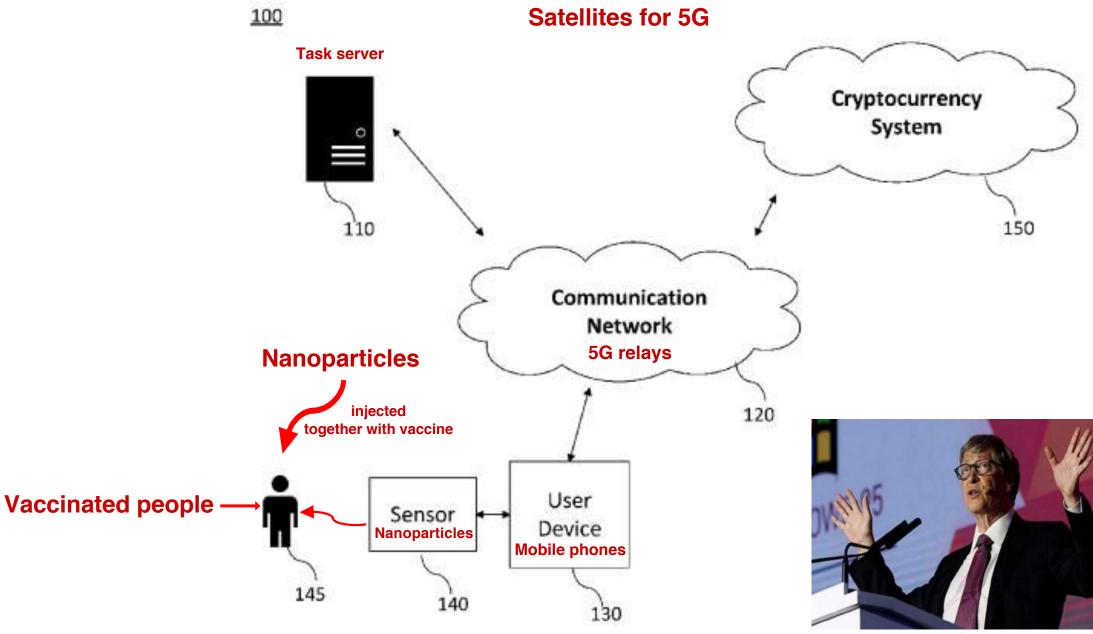
Final vaccine

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



BillGates

Thrombinoscope of the promoters of the ChAdOx1 nCoV-19 vaccine

Bill Gates and his allies



Bill Gates



Emmanuel Macron



Jacques Attali



Agnès Buzyn



Yves Lévy



Olivier Véran



Jérôme Salomon



Dominique Martin



Tedros Adhanom Ghebreyesus



Anthony Fauci



Frédéric Tangy



Adrian Hill

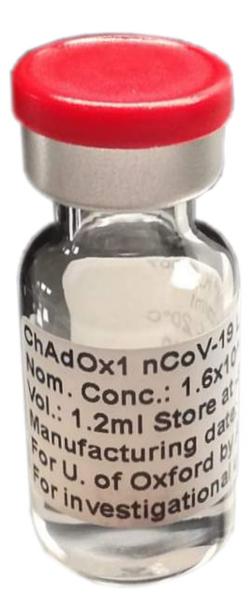
WARNING

- Covid-19 helped spark a false pandemic, and spread fear across the world, to make us accept the Covid-19 vaccine.
- By seeking to vaccinate the entire world population, the sponsors of this vaccine, **Bill Gates and his allies**, want **to enslave** and **control us**, pursuing two objectives:
- Control the entire world population after having vaccinated it, thanks to the deployment of 5G;
- Limit the world's population.

This vaccine is very dangerous because it will cause, in vaccinated people, deleterious immunodeficiency, due, in particular, to the presence, in its genome, of 4 RNA fragments from HIV, the AIDS virus, and, moreover, DNA fragments from the malaria germ.

MEN WORLDWIDE MUST REFUSE COVID-19 VACCINE THAT BILL GATES AND ITS ALLIES WANT TO IMPOSE ON US

We invite all people who consider information of this video as Fake-News to check their accuracy on the links provided under this video Data Sources of Information for the Truth about Covid-19 and ChAdOx1 nCoV-19 Vaccine are presented in the attached PDF below



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 the Covid-19



Doctor Frédéric Tangy Director of Vaccine Innovation at the Institut Pasteur

Publications related to coronaviruses and vaccines

- 1-2003: Inventor in Patents EP 1 694 829 B1 and US 012.8224 A1
- 2- 2005: Publication: Frédéric TANGY and Hussein Y. Naim. *Live Attenuated Measles Vaccine as a Potential Multivalent Pediatric Vaccination Vector.*

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- 6-2020: Paris-Match article from May 14-20, 2020

Doctor Frédéric Tangy is the father of the Covid-19

<mark>Frédéric Tangy</mark>



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 Sars-CoV, then transferred to Wuhan where the French scientists of Institut Pasteur do let it escape, <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 Sars-CoV1

From Sars-CoV to Sars-CoV1

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

(12) Patent Application Publication Van Der Werf et al. (10) Pub. No.: US 2007/0128224 A1 (43) Pub. Date: Jun. 7, 2007

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

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

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	C12N	5/06	(2006.01)
(52)	US C	1	121/22

(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

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.

Patent US 2007/0128224 A1

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	
		>< ScrFI			>< Sau3AI	
		>< MvaI	>	< TthHB8I	>< NdeII	
	><	ECORII	>	< Tagl	>< MflI	
		>< Ecl136I		>< Sau3AI	>< MboI	
	><	DsaV		>< NdeII	>< DpnII	
		>< BstOI		>< MboI>< I	Mnll>< Dpnl	
		>< BstNI		>< DpnII	>< BstYI	
		>< BsiLI		>< Dpn I	>< BspAI	
	><	BsaJI		>< BspAI	>< Bsp14	131
		>< ApyI			3I>< BglII	
ATATTAGGTT	TTTACCTACC	CAGGAAAAGC	CAACCAACCT		TAGATCTGTT	CTCTAAACGA
10	20	30	40	50	60	70

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

SEQUENCE LISTING

<160> NUMBER OF SEQ ID NOS: 158

<210> SEQ ID NO 1 <211> LENGTH: 29746 <212> TYPE: DNA <213> ORGANISM: CORONAVIRUS

Sars-CoV1: SEQUENCE 1 DNA

<400> SEQUENCE: 1

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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		29746

<212> TYPE: DNA <213> ORGANISM: CORONAVIRUS <220> FEATURE: <221> NAME/KEY: CDS <222> LOCATION: (89)..(3853)

Sars-CoV1: SEQUENCE 2 DNA

<400> SEQUENCE: 2

<223> OTHER INFORMATION:

ttetettetg gaaaaaggta ggettateat tagagaaaac aacagagttg tggttteaag	60
tgatattett gttaacaact aaacgaac 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 Leu Phe Leu Thr Leu Thr Ser Gly Ser Asp Leu 5 15 1 10 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 55 tattattatt attetgtttg gaactttaac attgettate atg gea gae aac ggt 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		
atggagagee ttgttettgg tgteaace	ag aaaacacacg tccaactcag tttgcctgtc	60
cttcaggtta gagacgtgct agtgcgtg	gc ttcggggact ctgtggaaga ggccctatcg	120
gaggcacgtg aacacctcaa aaatggca	ict tgtggtctag tagagctgga aaaaggcgta	180
ctgccccagc ttgaacagcc ctatgtgt	tc attaaacgtt ctgatgcctt aagcaccaat	240
ctaactacat tttctggagg aacacaaa	ate ctatecagtt gtetteetat teactetttg 21	L060
acatgagcaa atttcctctt aaattaaq	gag gaactgctgt aatgtctctt aaggagaatc 21	L120
aaatcaatga tatgatttat tctcttc	tgg aaaaaggtag gcttatcatt agagaaaaca 21	L180
acagagttgt ggtttcaagt gatattct	ttg ttaacaacta a	L221
<210> SEQ ID NO 46 <211> LENGTH: 1995	Sars-CoV1: SEQUENCE 4	46
<212> TYPE: DNA	DNA	
<213> ORGANISM: CORONAVIRUS		
<400> SEQUENCE: 46		
tttgtgcact catactcgct tacagtaa	ata aaactgttgg cgagcttggt gatgtcagag	60
aaactatgac ccatcttcta cagcatgo	eta atttggaate tgeaaagega gttettaatg	120
<210> SEQ ID NO 55 <211> LENGTH: 32 <212> TYPE: DNA	Sars-CoV1: SEQUENC	E 55

DNA

<213> ORGANISM: artificial sequence

cccatatgtc tgataatgga ccccaatcaa ac

<223> OTHER INFORMATION: N sens primer

<220> FEATURE:

<400> SEQUENCE: 55

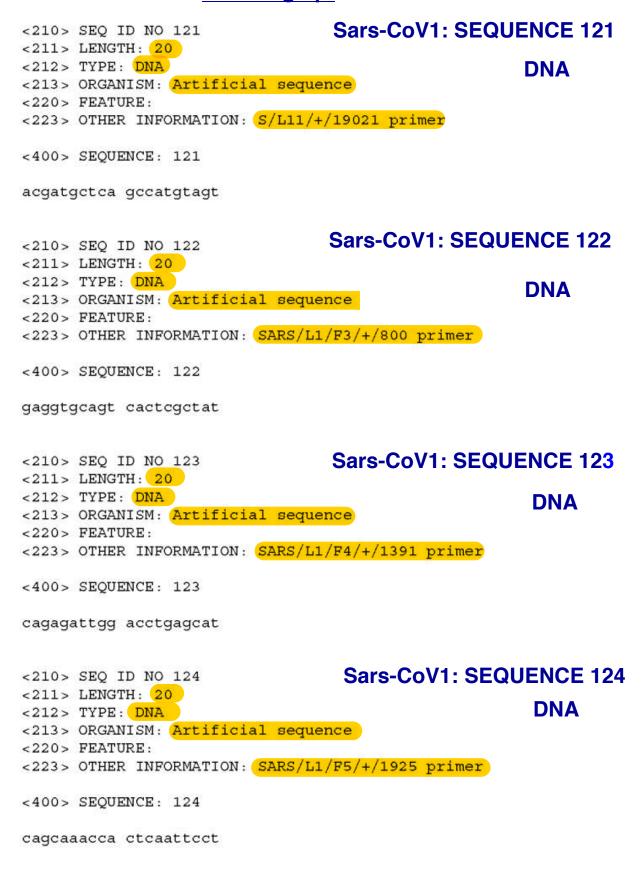
Listing of the 158 DNA and Protein sequences inserted, by Pasteur Institute people, into the Sars-CoV coronavirus, taken, in 2003, from a patient at the French hospital in Hanoi Following up

<pre><210> SEQ ID NO 61 <211> LENGTH: 16 <212> TYPE: DNA <213> ORGANISM: Antisens set 2 (28774-28759) primer DNA <400> SEQUENCE: 61</pre>
cagtttcacc acctcc
<pre><210> SEQ ID NO 69 <211> LENGTH: 13 <212> TYPE: PRT <213> ORGANISM: artificial sequence <220> FEATURE: <223> OTHER INFORMATION: M2-14 peptide</pre>
<400> SEQUENCE: 69
Ala Asp Asn Gly Thr Ile Thr Val Glu Glu Leu Lys Gln 1 5 10
<pre><210> SEQ ID NO 73 <211> LENGTH: 410 <212> TYPE: DNA</pre> Sars-CoV1: SEQUENCE 73
<212> ITPE: DNA <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><210> SEQ ID NO 74 <211> LENGTH: 4382 <212> TYPE: PRT <213> ORGANISM: CORONAVIRUS Sars-CoV1: SEQUENCE 74 PRT</pre>
<400> SEQUENCE: 74
Met Glu Ser Leu Val Leu Gly Val Asn Glu Lys Thr His Val Gln Leu 1 5 10 15
Ser Leu Pro Val Leu Gln Val Arg Asp Val Leu Val Arg Gly Phe Gly 20 25 30

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**

<210>	SEQ]	ID NO 140			S	ars-CoV1:	SEQUENCE	140
		TH: 7788						
<212>		S. STREET, STR			10		DNA	
		NISM: Art:	ficial	seque	nce			
<220>			1000000000	0.132-03				
<223>	OTHEF	R INFORMAT	ION: <mark>s</mark>	ynthet:	ic S gene			
<400>	SEQUE	ENCE: 140						
tcaata	attgg	ccattaged	a tatt	attcat	tggttatata	gcataaatca	atattggcta	60
ttggco	cattg	catacgtt	gt atct	atatca	taatatgtac	atttatattg	gctcatgtcc	120

- aatatgaccg ccatgttggc attgattatt gactagttat taatagtaat caattacggg 180
- gtcattagtt catagcccat atatggagtt ccgcgttaca taacttacgg taaatggccc 240

	SEQ ID NO 157 LENGTH: 20	Sar	s-CoV1: SEQUENCE 157
	TYPE: DNA		DNA
<213>	ORGANISM: Artificial	sequence	DNA
<220>	FEATURE :		
<223>	OTHER INFORMATION: PO	CR primer	
<400>	SEQUENCE: 157		
ccatt	caac aatttggccg		

<210> SEQ ID NO 158 Sars-CoV1: SEQUENCE 158
<211> LENGTH: 45
<212> TYPE: DNA CONSIST: Artificial sequence
<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

From Sars-CoV1 to Sars-CoV2

2011





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): Sylvie 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

Dec. 2, 2003	(FR)	 03 14151
Dec. 2, 2003	(FR)	 03 14152

(51)	Int. Cl.	
8 - P	C12Q 1/70	(2006.01)
	G01N 33/53	(2006.01)
	G01N 33/542	(2006.01)
	G01N 33/00	(2006.01)
(52)	US CI	125/5· 125/7 1· 125/7 0·

- (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.

(56) References Cited

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

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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

2019





Institut Pasteur Frédéric Tangy

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

Sars-CoV2

Covid-19

Patent filed in 2019 International Publication date in 2021

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-19genome:

- -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 well-known 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**

To read the full article see **DOCUMENT 2**

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

Review

Live Attenuated Measles Vaccine as a Potential Multivalent Pediatric Vaccination Vector

FRÉDÉRIC TANGY¹ and HUSSEIN Y. NAIM²

(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 <u>DOCUMENT 3</u> (Original) and <u>DOCUMENT 4</u> (English traduction)

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>Documents 3 and 4</u>)

Thus, as explained perfectly to us by Dr. Frédéric Tangy - who is decidedly very talkative - the spike glycoprotein of Covid-19, which contains the 4 RNA sequences of HIV- which is clear from the group's analysis of Indian researchers, but was hidden (like DNA sequences of malaria genome) by scientists 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 virus). But, obviously, it does not tell us that the RNA HIV nucleic acids, which have already been previously inserted into the genome of Sars-CoV2 coronavirus, 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

(ChAdOx1 chimpanzee DNA adenovirus)

Jenner Institute



Adrian Hill

Covid-19 vaccines

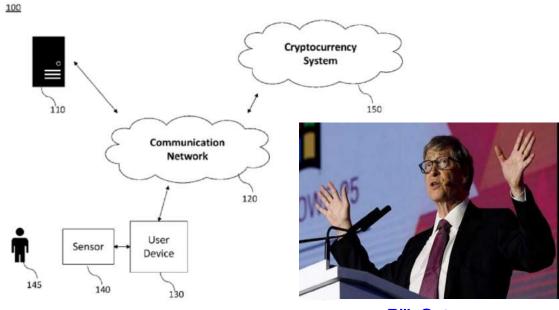
ChAdOx1 nCoV-19 (AstraZeneca, Sanofi)

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

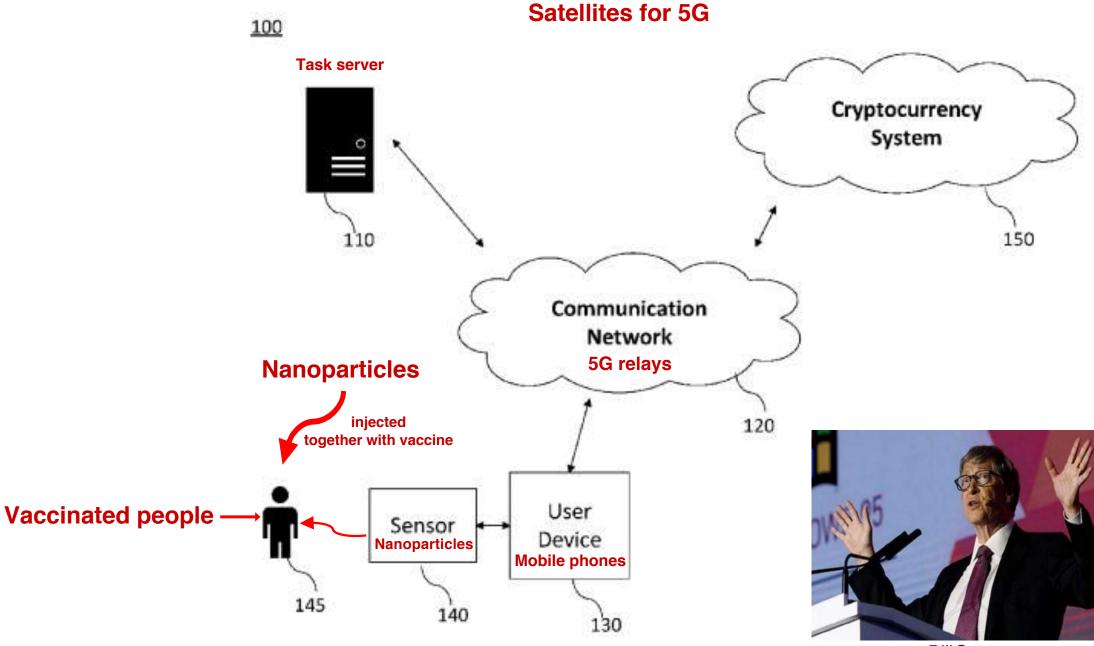
Final vaccine

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



Bill Gates

NANOPARTICLES OF Covid-19 VACCINES



BillGates

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

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	

DISCLAIMER:

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	

DISCLAIMER:

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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			
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- Replicating Viral Vector	adenovirus-based NasoVAX expressing SARS2-CoV spike	Altimmune	SARS-CoV2	Pre-Clinical	influenza
Non- Replicating Viral Vector	protein [E1-, E2b-, E3-] hAd5- COVID19- Spike/Nucleocapsid	ImmunityBio, Inc. & NantKwest, Inc.	SARS-CoV2	Pre-Clinical	flu, Chik, Zika, EBOV, LASV, HIV/SIV,Cancer
Non- Replicating Viral Vector	Ad5 S (GREVAX™ platform)	Greffex	SARS-CoV2	Pre-Clinical	MERS
Non- Replicating Viral Vector	Oral Ad5 S	Stabilitech Biopharma Ltd	SARS-CoV2	Pre-Clinical	Zika, VZV, HSV-2 and Norovirus
Non- Replicating Viral Vector	adenovirus-based + HLA-matched peptides	Valo Therapeutics Ltd	Pan-Corona	Pre-Clinical	
Non- Replicating Viral Vector	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		57 113 60 72		
Viral Vector					
	Inactivated Flu-based	National Center for Genetic	SARS-CoV2	Pre-Clinical	
Non-			SARS-COVZ	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	,			
Suburne	with GLA/3M052 adjs.				
Drotoin	· · · · ·	Lielix Diagon Consult, Oghomoco 8		Pre-Clinical	
Protein	Subunit	Helix Biogen Consult, Ogbomoso &	SARS-CoV2	Pre-Clinical	
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	57 113 60 72		
Protein			SARS-CoV2	Pre-Clinical	
	Capsid-like Particle	AdaptVac (PREVENT-nCoV	SARS-COVZ	Pre-Clinical	
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			57 113 60 72		
	Spratain (Adiment	National Institute of Infectious	SADS COV2	Pre-Clinical	Influenza
Protein	S protein +Adjuvant		SARS-CoV2	Pre-Clinical	Innuenza
Subunit		Disease, Japan/Shionogi/UMN			
		Pharma			
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			5, 115 COVZ		
	A diumanta durata la			Dro Clinical	
Protein	Adjuvanted protein	Biological E Ltd	SARS-CoV2	Pre-Clinical	
Subunit	subunit (RBD)				
Protein	Peptide	Flow Pharma Inc	SARS-CoV2	Pre-Clinical	Ebola, Marburg,
Subunit					HIV, Zika,
					Influenza, HPV
					therapeutic
					vaccine,
					BreastCA
Dratain	C protoin			Dro. Oligiani	vaccine
Protein	S protein	AJ Vaccines	SARS-CoV2	Pre-Clinical	
Subunit					
Protein	li-Key peptide	Generex/EpiVax	SARS-CoV2	Pre-Clinical	Influenza, HIV,
Subunit					SARS-CoV
Protein	S protein	EpiVax/Univ. of Georgia	SARS-CoV2	Pre-Clinical	H7N9
Subunit					
Protein	Protein Subunit EPV-	EpiVax	SARS-CoV2	Pre-Clinical	
Subunit	CoV-19		5, 115 CUVZ		
		Sanofi Dastaur/CSK		Dro Clinical	
Protein	S protein (baculovirus	Sanofi Pasteur/GSK	SARS-CoV2	Pre-Clinical	Influenza, SARS-
Subunit	production)				CoV

DISCLAIMER:

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	Queensland/GSK/Dynavax	SAN3-C0V2		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)		5, 110 00 12		
Suburne	proteins				
Protein	Adjuvanted	VIDO-InterVac, University of	SARS-CoV2	Pre-Clinical	
Subunit	microsphere peptide	Saskatchewan	5AN5-C0V2	r re-Cinnear	
Protein	Synthetic Long	OncoGen	SARS-CoV2	Pre-Clinical	
	Peptide Vaccine	Oncoden	SARS-CUVZ	Pre-Clinical	
Subunit	•				
	candidate for S and M				
Ductoin	proteins			Due Clinical	
Protein	Oral E. coli-based	MIGAL Galilee Research Institute	SARS-CoV2	Pre-Clinical	
Subunit	protein expression				
	system of S and N				
	proteins				
Protein Subunit	Nanoparticle vaccine	LakePharma, Inc.	SARS-CoV2	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	, in your connotogy	5, 110 00 12		
Protein	Recombinant protein	Yisheng Biopharma	SARS-CoV2	Pre-Clinical	
Subunit			5AN5 COV2		
Protein		Vabiotech	SARS-CoV2	Pre-Clinical	
	Recombinant S		1 1 H I 1 1 H I I I I I I I I I I I I I		
	Recombinant S	Vabiotech	3AN3-CUV2		
Subunit	protein in IC-BEVS				
Subunit Protein	protein in IC-BEVS Orally delivered, heat	Applied Biotechnology Institute,	SARS-CoV2	Pre-Clinical	
Subunit Protein Subunit	protein in IC-BEVS Orally delivered, heat stable subunit	Applied Biotechnology Institute, Inc.	SARS-CoV2	Pre-Clinical	
Subunit Protein Subunit Protein	protein in IC-BEVS Orally delivered, heat stable subunit S-2P protein + CpG	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics			
Subunit Protein Subunit Protein Subunit	protein in IC-BEVS Orally delivered, heat stable subunit S-2P protein + CpG 1018	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax	SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein	 protein in IC-BEVS Orally delivered, heat stable subunit S-2P protein + CpG 1018 Peptides derived from 	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics	SARS-CoV2	Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit	 protein in IC-BEVS Orally delivered, heat stable subunit S-2P protein + CpG 1018 Peptides derived from Spike protein 	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE	SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein	 protein in IC-BEVS Orally delivered, heat stable subunit S-2P protein + CpG 1018 Peptides derived from 	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical	SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit	protein in IC-BEVS Orally delivered, heat stable subunit S-2P protein + CpG 1018 Peptides derived from Spike protein Protein Subunit	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical Research, GC Pharma	SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein	 protein in IC-BEVS Orally delivered, heat stable subunit S-2P protein + CpG 1018 Peptides derived from Spike protein 	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical	SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit	protein in IC-BEVSOrally delivered, heat stable subunitS-2P protein + CpG 1018Peptides derived from Spike proteinProtein SubunitRBD-based	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical Research, GC Pharma Neovii/Tel Aviv University	SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical Pre-Clinical Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein	protein in IC-BEVS Orally delivered, heat stable subunit S-2P protein + CpG 1018 Peptides derived from Spike protein Protein Subunit	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical Research, GC Pharma	SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit	protein in IC-BEVSOrally delivered, heat stable subunitS-2P protein + CpG 1018Peptides derived from Spike proteinProtein SubunitRBD-basedRBD-based	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical Research, GC Pharma Neovii/Tel Aviv University Kentucky Bioprocessing, Inc	SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein	protein in IC-BEVSOrally delivered, heat stable subunitS-2P protein + CpG 1018Peptides derived from Spike proteinProtein SubunitRBD-basedRBD-basedOuter Membrane	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical Research, GC Pharma Neovii/Tel Aviv University	SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-Clinical Pre-Clinical Pre-Clinical Pre-Clinical Pre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit	protein in IC-BEVSOrally delivered, heat stable subunitS-2P protein + CpG 1018Peptides derived from Spike proteinProtein SubunitRBD-basedRBD-basedOuter Membrane Vesicle (OMV)-	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical Research, GC Pharma Neovii/Tel Aviv University Kentucky Bioprocessing, Inc	SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-Clinical	
Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein Subunit Protein	protein in IC-BEVSOrally delivered, heat stable subunitS-2P protein + CpG 1018Peptides derived from Spike proteinProtein SubunitRBD-basedRBD-basedOuter Membrane	Applied Biotechnology Institute, Inc. Medigen Vaccine Biologics Corporation/NIAID/Dynavax Axon Neuroscience SE MOGAM Institute for Biomedical Research, GC Pharma Neovii/Tel Aviv University Kentucky Bioprocessing, Inc	SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2 SARS-CoV2	Pre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-ClinicalPre-Clinical	

DISCLAIMER:

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, Lassa
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	
	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:

		IOLLOWIN			
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 13 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 : 6 months to 1 year
 - Phase II: in 100 to 1000 subjects after favorable opinion of Protection Committee and Free and Informed Consent of all subjects: 6 months to 1 year
 - 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: 6 months to 1 year

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 ChAdOx1 nCoV-19
 - Country of the study: United-Kingdom
 - Sponsor of the study: ResearchServices, University Offices WellingtonSquare, 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 ChAdOx1 nCoV-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: April 5, 2020
 - Favorable opinion of the Ethics Committee: April 8,2020
 - 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"

ChAdOx1 nCoV-19 is the result of a collaboration 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

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

To read the full article see DOCUMENT 5 (Download PDF)

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



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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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To read the original interview see Document 6

Extract from the interview with Dr Tangy in PARIS-MATCH from May 14-20, 2020

Among the 400 emails received each day by Professor Etienne Simon-Lorière, responsible for the functional genomic unit for infectious diseases, there is always one sent by an unknown person who found his contact on the Internet: where are they? vaccine research? On this point, Frédéric Tangy, head of the vaccine innovation laboratory, does not want to leave any doubt. With a sigh, he said: "There will be no miracle vaccine in November or December. At best, it will be in 2021." He even plagues against figures which, according to him, sow confusion. Thus, those of the London School of Hygiene & Tropical Medicine which has just listed 120 vaccines in development in the world.... "It can be misleading. There are maybe only eight that will result! And of those, tested in China, Britain, Germany or the United States, few are expected to progress from phase 1 to phase 2 of human clinical trials. Industrialists know this very well: most are just new strategies, having not yet shown any clinical proof. I call them "mouse vaccines". Vaccine science, the real one, the one that works, doesn't move that way. In half an hour, he will transmit a videoconference, recorded the day before, to an audience of scientists from the Academy of Sciences. It deals specifically with the steps required to develop a vaccine. "Look at my diagrams: a vaccine is at least eight years of research! The AIDS vaccine has been on it for thirty-five years, and it's still very difficult.

According to Dr Frédéric Tangy, the father of Covid-19, <u>it takes at least 8 years</u> to develop a vaccine (interview in Paris-Match from May 16 to 20, 2020) Interview with Bill Gates Paris-Match April 16-22, 2020 Bill Gates-doctor of the world To read the original version of the interview, see DOCUMENT 7

To read an excerpt translated into English, see <u>DOCUMENT 8</u>

In 2015, Bill Gates sounded the alarm at a press conference that will go viral: nearly 30 million people have watched it to date. It describes the catastrophic scenario that the entire planet has experienced since the start of the Covid-19 epidemic

It's easy to predict a pandemic when you start it

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

Yang Liu,^{1,*} Wenjian Liao,^{2,*} Lagen Wan,¹ Tianxing Xiang,³ and Wei Zhang²

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 ΔCT 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⁺ 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⁺ 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

To read the full articles see **DOCUMENTS** 10 et 11

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):

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 ± 0.32 L/kg, and its clearance was 0.125 ± 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.

To read the full article see DOCUMENT 22 (USB Key)

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

Tetracyclines in malaria

Tiphaine Gaillard^{1,2,3}, Marylin Madamet^{2,4,5} and Bruno Pradines^{1,2,5,6*}

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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Agnès BUZYN and Yves LEVY know that DNA fragments from the germ of Malaria are inserted into the genome of Covid-19 (see DOCUMENT 2)

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

WARNING

- Covid-19 helped spark a false pandemic, and spread fear across the world, to make us accept the Covid-19 vaccine.
- By seeking to vaccinate the entire world population, the sponsors of this vaccine, **Bill Gates and his allies**, want **to enslave** and **control us**, pursuing two objectives:
- Control the entire world population after having vaccinated it, thanks to the deployment of 5G;
- Limit the world's population.

This vaccine is very dangerous because it will cause, in vaccinated people, deleterious immunodeficiency, due, in particular, to the HIV sequences of its genome.

MEN WORLDWIDE MUST REFUSE COVID-19 VACCINE THAT BILL GATES AND ITS ALLIES WANT TO IMPOSE ON US