



THE SEARCH FOR EXTRA TERRESTRIAL INTELLIGENCE & BIOTERRORISM TO BIOSECURITY: A REVIEW

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Abstract

ISM related important gaseous component which are called coronal are analogy with the solar corona. Sun Planet is thought to be surrounded by a local bubble with a radius of 100 pc containing coronal Atmosphere that produces in huge amount which contains **High Temperature Sensitive Microbes which are called Galactic Corona. Worldly** Known that space agencies and space centres in India, worldwide & Globally are working on SETI & Planetary Science as some **Scientists or group of Scientist** are working on Sun Planet as All those Laboratories in India Worldwide Globally send Radio Signal to Sun Planet & others planets & of/to their galaxies such as Messier Galaxy IC Galaxy NGC galaxy & targeted space microbes from those planets & galaxies from space to make Space Microbes Library by which corona emerged or Possibly such as space laboratory genetically engineered a virus strain & spread it to worldwide Globally. However, they forgot it will harm to themselves too.

Advanced Introduction

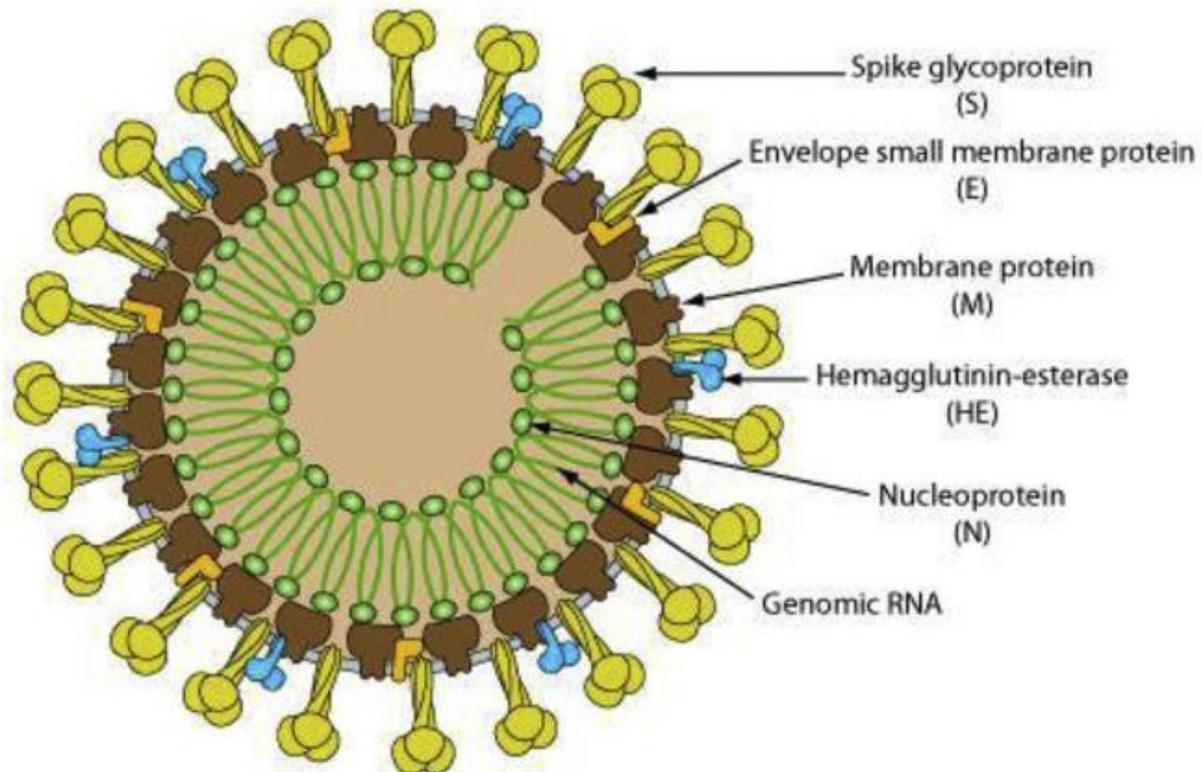
Biological attack is the intentional release of a pathogen (disease causing agent) or biotoxin (poisonous substance produced by a living organism) against humans, plants, or animals. These biological agents can be isolated from sources in nature acquired from laboratories, and Synthesized or genetically manipulated in a laboratory. **The aim of a bio attack is to create suffering and disruption by introducing an epidemic of infectious disease such as Covid -19.** The thread of biological weapons at global level is not a myth but harsh reality which is called bioterrorism. Bioterrorism which is also called bio-crime always planned and use to attack any nation, multination, small population of trees, animal and male & female population of any country. The main purpose of biocrime or bioterrorism is to achieve political and social objectives. Recently, developed nation & some developing nations are using bioterrorism as a threat to demolish any nation in which they used pathogenic microbes altered by genetic modification to demolish any nation more threatfully. Bioterrorism is also the part of Indian defence strategy from last many decades. (Amit Rastogi, 2023). Bioterrorism exist on this planet since 600 BC to demolish population of plants, animals and Male and Female population of other countries, sometimes same country (Amit Rastogi, 2023).

Category C Bio-Safety Agent which is/are/was/ were are genetically engineered designed and fabricated for mass dissemination in the future to cause mortality rates and major health impact and Penic Death. Such as **Covid- 19** which is Biosafety agent anyhow leaked or any other circumstances to out from lab and became bioterrorism agent in India World Wide Globally. (Amit Rastogi 2023).

Such Bioterrorism agent are designed, prepared and fabricated in developed nations, developing nations laboratory for Biosafety purpose either or to attack to others nations for any purpose are threat to same nation too. Moreover, bioterrorism agents can harm small animal farm in the same nation or in the other nation (Amit Rastogi 2023).

Structure of Corona Virus

Structure of Corona Virus with percent identity matrix of major proteins and domains of novel coronavirus is discussed below



Source Figure 1: Schematic of a coronavirus – this new virus probably looks a lot like this. From Biowiki (<http://ruleof6ix.fieldofscience.com/2012/09/a-new-coronavirus-should-you-care.html>)

(<https://www.discovermagazine.com/health/the-strange-theory-of-coronavirus-from-space>)

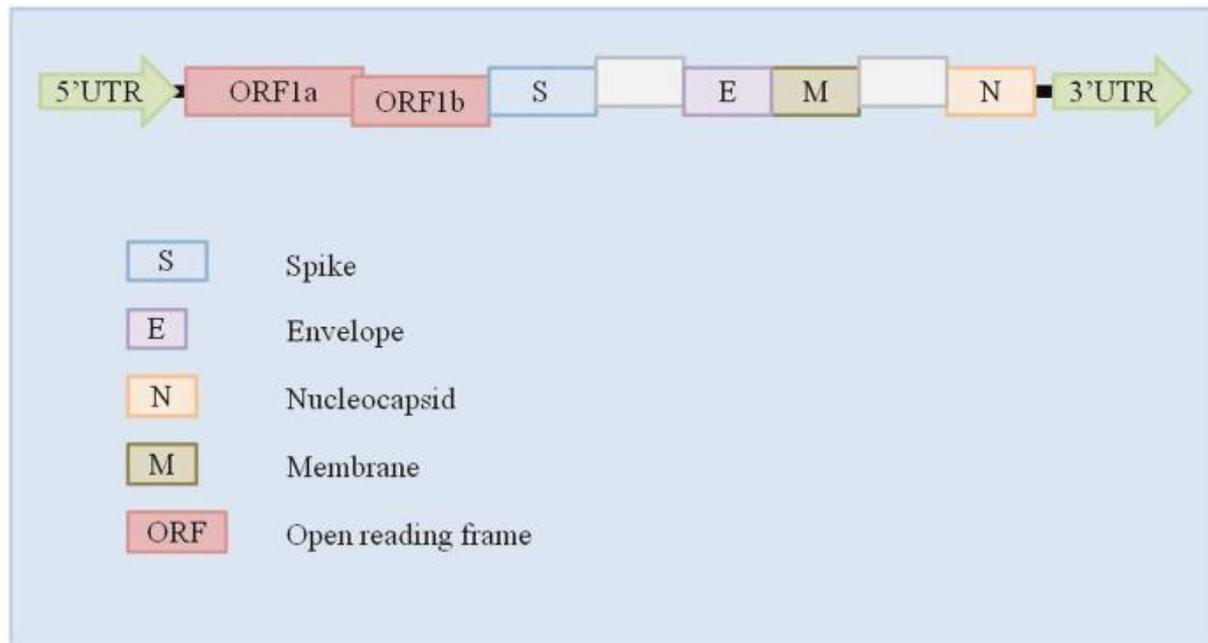
Percent identity matrix of major proteins and domains of novel coronavirus SARS-CoV2 strain with other beta-CoVs obtained using CLUSTAL O (1.2.4)

PROTEIN	SARS-CoV	MERS-CoV	HCoV HKU1	HCoV OC43
S (spike)	97.71%	32.79%	30.50%	31.26%
E (Envelope)	96.00%	36.00%	28.00%	20.00%
M (Membrane)	89.59%	39.27%	35.29%	38.74%
N (Nucleocapsid)	85.41%	48.47%	34.28%	35.20%
Receptor (ACE-2) binding domain	74.41%	18.75%	24.44%	22.83%
N-terminal domain	52.55%	21.67%	21.49%	20.26%

(<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7395230/>)

Genome Bio-analysis of Corona Virus

Coronaviruses possess the largest genomes (26.4–31.7 kb) among all known RNA viruses, with G + C contents varying from 32% to 43%. Variable numbers of small ORFs are present between the various conserved genes (ORF1ab, spike, envelope, membrane and nucleocapsid) and, downstream to the nucleocapsid gene in different coronavirus lineages. The viral genome contains distinctive features, including a unique N-terminal fragment within the spike protein. Genes for the major structural proteins in all coronaviruses occur in the 5'–3' order as S, E, M, and N.



Source Figure 2: Genomic organization of coronavirus
(<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7395230/>)

The accession number, genus, abbreviation, name, and length (bps) for the seven most common human coronavirus strains

No.	Accession	Genera	Abbreviation	Genome	Length (bp)
1	NC_002645	α	HCoV-229E	Human Coronavirus 229E	27,317
2	NC_005831	α	HCoV-NL63	Human Coronavirus NL63	27,553
3	NC_006577	β	HCoV-HKU1	Human Coronavirus HKU1	29,926
4	NC_006213	β	HCoV-OC43	Human Coronavirus OC43	30,741
5	NC_019843	β	MERS-CoV	Middle East respiratory syndrome Coronavirus	30,119
6	NC_004718	β	SARS-CoV	Severe acute respiratory syndrome Coronavirus	29,751
7	NC_045512	β	SARS-CoV2	Severe acute respiratory syndrome Coronavirus-2	29,903

(<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7395230/>)

FASTA sequences of SARS-CoV2 for vaccine development

1. Spike protein S2 subunit
GVTQNVLYENQKLIANQFN SAIGKIQDSLSTASALGKLQDVVNQNAQALNTLVKQLSSNFGAI
SSVLNDILSRDLKVESGGRGGPDVDLGDISGINASVVNIQKEIDRLNEVAKNL NESLIDLQELGK
YGG
2. Receptor Binding domain (RBD)
RVVPSGDVVRFPNITNLC PFGEVFNATKFP SVYAWERKKISNCVADYSVLYNSTFFSTFKCYGV
SATKLNDLCFSNVYADSFVVKGDDVRQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDAT

STGNYNYKYRLFRKSNLKPFERDISTEIQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPY
RVVVLSFELLNAPATVCGPKLSTDLIK

3. N-Terminal Domain (NTD)

GAMGLPNNTASWFTALTQHGKEDLKFPARGQVPINTNSSPDDQIGYYRRATRRIRGGDGKMK
DLSPRWYFYLYLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIIVLQLPQGT
TLPKGFYAEGSRGGS

4. M protein

MADSNGTITVEELKKLLEQWNLVIGFLFLTWICLLQFAYANRNRFLYIIKLIFLWLLWPVTLACFVLAA
VYRINWITGGIAIAMAACLVGLMWLSYFIASFRLFARTRSMWSFNPETNILLNVPLHGTILTRPLLESELV
IGAVILRGHLRIAGHHLGRCDIKDLPEITVATSRTLSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNT
DHSSSDNIALLVQ

E protein

MYSFVSEETGTLIVNSVLLFLAFVVFLVTLAILTALRLCAYCCNIVNVSLVKPSFYVYSRVKNLNSSR
VPDLLV

N protein

MSDNGPQNQRNAPRITFGGSDSTGSNQNNGERSGARSKQRRPQGLPNNTASWFTALTQHGKEDLKFP
RQGVVPINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYFYLYLGTGPEAGLPYGANKDGIWVATE
GALNTPKDHIGTRNPANNAIIVLQLPQGTTLPKGFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTS
PARMAGNGGDAALALLLDRLNQLESKMSGKQQQQGQTVTKKSAEASKKPRQKRTATKAYNVT
QAFGRRGPEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKL
DDKDPNFKDQVILLNKHIDAYKTFPPTEPKDKKKKKADETQALPQRQKKQQTVTLLPAADLDDFSKQ
LQSMSSADSTQA

(<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7395230/>)

Nucleic Acid of Corona Virus

The nucleic acid of the novel coronavirus is a positive-stranded RNA8. The 8-nucleotide-long RNA.

(<https://www.google.com/search?client=firefox-b-d&q=VIRAL+RNA+TYPES+IN+COVID+19>)

(<https://pubmed.ncbi.nlm.nih.gov/10692458/>)

At present, there is no specific treatment for COVID-19. Given the high rate of transmission of this virus between humans and its pandemics, it is important to identify the basis of its replication, structure, and pathogenicity for discovering a way to the special treatment or the prevention.

(<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7138183/>)

GENEREALISED BIO-NANO-ECO-BIO VACCINE ROUTE FOR COVID 19 *In vitro*

First Generalised route for Covid- 19 Vaccine is described below:

Metal Solution such as Silver Gold Platinum 1mM solution 1 ml per all three metal in different three test tube in distilled water 9 ml in sterile lab condition

Mix all three solutions in conical flask 100 ml

100 gm Red Rose petal (Desi Rose) peeled in sterile mortar pistal in sterile lab condition

Mix Rose petal paste in conical flask with Trimetal solution & took it at Room Temperature for 24 hours & Preserved it at 4 degree centegrate in Fridger for further use

Covid-19 Solution formation described below

Add 10 gm of 80 to 90 percent heat dried Covid-19 Virus Powder which will be heated at 40-50 degree centigrade for 10-20 minutes which must be added in 100 distilled water with Chlorine salt Ammonium chloride 10mg 500 mg Barium Chloride Flerovium Pure salt 99.99% 10 mg in sterile lab conditions to which transfer in Orbital shaker at 27 degree centigrade with rpm 50-60 for 24 hours

After 24 hours add 100 ml trimetal solution in 100 ml Covid – 19 Solution

Add tablet Remdesivir 10 mg in the above solution & Mix it in orbital shaker at 27 degree centigrade with 20 rpm for 30 minutes.

Transfer this solution to Biopharmaceuticals for Vaccine formulation

Vaccine Formulation will be Clinical trial (Phase 1 Phase 2Phase 3 Phase 4) first before to launch in market

How Covid-19 Emerged & Theory behind Corona Virus

Worldly Known that space agencies and space centres in India, worldwide & Globally are working on SETI & Planetary Science as some **Scientists or group of Scientist** are working on Sun Planet as All those Laboratories in India Worldwide Globally send Radio Signal to Sun Planet & others planets & of/to their galaxies such as Messier Galaxy IC Galaxy NGC galaxy & targeted space microbes from those planets & galaxies from space to make Space Microbes Library by which corona emerged or Possibly such as space laboratory genetically engineered a virus strain & spread it to worldwide Globally. However, they forgot it will harm to themselves too (Amit Rastogi, 2023) (Amit Rastogi, 2023) (Amit Rastogi, 2023).

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Therefore that can say Corona Virus has high energy input that cannot be tolerate by Male & Female that leads to immune system of both smashed & makes both bodies to infectious and put up with Corona disease. Such as corona virus is with high energy input its byproducts makes Male & Female body to provide pass on from Earth Planet.

Advanced Conclusion

All Scientist in Space Laboratory & in other laboratories where space microbes works occurs are Advised to not to send Radio Signal to IC NGC Galaxies & to Sun Planets. Also they are Advised not to make genetically engineered Space Microbes.

References

- Amit Rastogi Elena Baryshnikova, Bioterrorism & Biosecurity: A Review, JETIR May 2023, Volume 10, Issue 5, PP. e342-351
- Amit Rastogi, Elena Baryshnikova, Astrobiology cum Extraterrestrial Intelligence & Space Microbial Microgravity explanation with Space Microbiology: BIO-CHEM-PHYLife Sign in Universe International Journal of Research Publication and Reviews, May 2023, Vol 4, no 5, PP. 6928-6930
- Amit Rastogi, Elena Baryshnikova, Astrobiology and Extraterrestrial Intelligence: Search for Universe Intelligent Fundamental Life Sign, International Journal of Research Publication and Reviews, May 2023, Vol 4, no 5, PP. 4658-4661
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7138183/>
- <https://pubmed.ncbi.nlm.nih.gov/10692458/>
- <https://www.google.com/search?client=firefox-b-d&q=VIRAL+RNA+TYPES+IN+COVID+19>
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7395230/>
- <https://www.discovermagazine.com/health/the-strange-theory-of-coronavirus-from-space>
- <http://ruleofsix.fieldofscience.com/2012/09/a-new-coronavirus-should-you-care.html>