Article-11v12b - The Covid Cryptic XEC Super-Spreader - Super-Mutator Crisis There is an URGENT NEED for President Biden to Declare a State of National
Emergency and to call for Immediate Production of mRNA vaccines against the XEC subvariant. 11v12b

Introduction:

There has been a rapidly evolving but Cryptic (Asymptomatic) COVID JN.1X Super-Spreader - Super-Mutator Crisis that has already created 456 rapidly mutating Sub-Variants, including the currently dominant KP.3.1.1 and XEC Sub-Variants.

The new Covid Recombinant Variant - XEC - is now spreading and mutating rapidly - but Cryptically (Asymptomatically) - throughout the World with it's Average Daily Prevalence now rising nearly "exponentially" to about 33% of all cases Worldwide.

There is an **URGENT NEED** for **President Biden** to **Declare** a **State of National Emergency** and to **call** for **Immediate Production** of **mRNA vaccines** against the **XEC** subvariant.

IMMEDIATE GOAL A Collaboration is proposed to Help Warn President Biden NOW - TODAY - or before he leaves office - to Declare a State of National Emergency and to call for Immediate Production of mRNA vaccines against the XEC subvariant\

SARS-CoV-2 (hCoV-19) Mutation Reports Lineage | Mutation Tracker https://outbreak.info/situation-reports

Figure 11 TEXT PREVIEW of original GRAPHICAL DATA in Figure 11 below, from the most recent update GISAID data update.

Figure 11a - Dec 21 2024 - Average Daily KP.3.1.1 Prevalence Worldwide - rising steadily to about 40% and then dropping rapidly to about 19% Worldwide v3. PNG

Figure 11b - Dec 21 2024 - Average Daily XEC Prevalence Worldwide - rising "exponentially" to about 33% Worldwide !!!. PNG

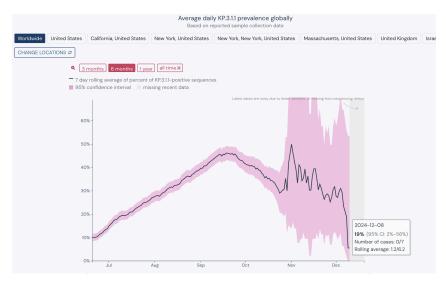


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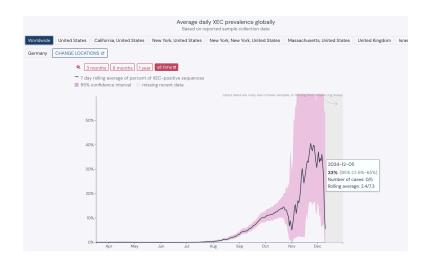
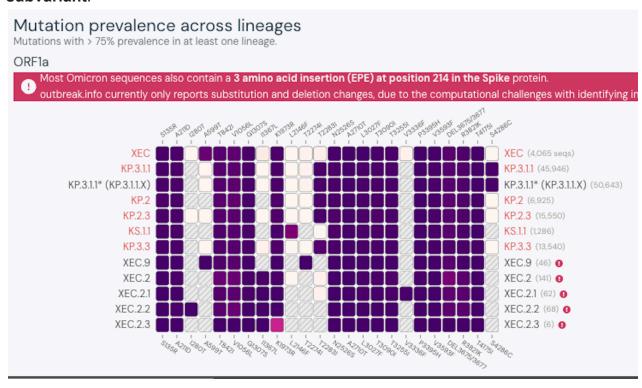


Figure 11b - Dec 21 2024 - Average Daily XEC Prevalence Worldwide - rising "exponentially" to about 33% Worldwide !!!. PNG

Figure 12

- Figure 12: The XEC Variant also has already mutated to create 15 distinct XEC.X subvariants in the latest
 Dec 21 2025 Gisaid data update shown in the Outbreak-info Web API Tool
- There are already 15 distinct XEC.X subvariants
- XEC (4,065)
 - XEC.1 (32)
 - XEC.12 (5)
 - XEC.13 (7)
 - XEC.14 (74)
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 - XEC.2.1 (62)
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 - XEC.2.3 (6)
 - XEC.3 (15)
 - XEC.4 (28)
 - XEC.5 (11)
 - XEC.6 (5)
 - XEC.8 (176)
 - XEC.9 (46)

Figure 12b - *Lineage Comparison* of some of the *XEC.X* subvariants with other *JN.1.X* subvariants, such as the *KS.1.*1 and *KP.3.3* which are the crossover parental strains for the *XEC* subvariant and also shown is the previously dominant KP.3.1.1 subvariant.



MOST URGENT -

President Biden can use this new global XEC.X Cryptic Super-Spreader / Super-Mutator Crisis - that includes the currently dominant XEC variant - to

1) Declare a State of National Emergency in the USA with Mask and Vaccine Mandates

Call for immediate production of mRNA vaccines against the and XEC subvariant.

2) also to use this global Cryptic Covid crisis to Declare a Strategic Initiative through the UN and WHO for an Immediate Enforced Ceasefire in both Gaza and Lebanon.

President Biden can help to Save the People of Gaza

and help end the current MidEast War

and I believe that we - the **Invited Collaborators** below - can **greatly help him with this Multi-Investigator Collaboration project.**

but we need to ACT NOW - TODAY!!

Through the **specific steps** described in the **Proposed Creative Solution** that is presented in this **Covid-Gaza Ceasefire Project** described below:

Invited Collaborators

- Dr. Harold Varmus,
- Dr. Craig Mello,
- Dr. Charles Rice.
- Dr. Michael Osterholm,
- Dr. Tom Maniatis
- Dr. Michael Eisen
- Dr. Stephen Elledge
- Dr. Janko Nikolich
- Dr. lan Lipkin
- Dr. David Levy
- Dr. Tony Brown

- Dr. Louis Reichardt
- Dr. David Ho
- Dr. Qian Wang
- Dr. Ian Mellis
- Dr. Yicheng Guo
- Dr. Andrew Su
- Dr. Laura Hughes
- Dr. Karthik Gangavarapu

Introduction Part I: Article 11: The Covid Cryptic XEC Super-Spreader - Super-Mutator Crisis.

Article-11v11b - The Covid Cryptic (Asymptomatic) XEC Super-Spreader - Super-Mutator Crisis - there is an URGENT NEED for President Biden to Call for Immediate Production of mRNA vaccines against the XEC subvariant. 11v11b

Introduction Part II: The Covid-Gaza Ceasefire Project.

This is **potentially** a very powerful **Knowledge System approach** for

a Proposed Creative Solution to solve the the Covid-Gaza Ceasefire Crisis,

by **creatively linking** these **2 Key News Knowledge analyses** published by **Gnomics-KS** on the **Gnomics Google Workspace platform** in this:

Covid-Gaza Ceasefire Project.

- 1) Covid Gaza Article 11 v4 KEY Covid NEWS "There is an Imminent but Cryptic (asymptomatic) Covid XEC Super-spreader / Super-Mutator Variant now spreading in Israel and Worldwide Biden can ACT NOW to Declare a State of National Emergency in the USA throughout Gaza and Israel and the Middle East 11v
- 2) <u>Covid Gaza Article 12</u> v5 KEY Political NEWS After the death of Sinwar, Netanyahu stated publicly that "The War can end tomorrow, but only if Hamas lays down it's Arms, and releases the Hostages" - and Biden can ACT NOW - to Declare a Strategic Initiative for the Proposed Creative Solution with an Enforced Ceasefire throughout Gaza and Israel and the Middle East 12v5

Proposed Creative Solution:

President Biden can use this combined **Covid-Gaza Ceasefire Project**:

I: to Declare a State of National Emergency in the USA based on this new Covid XEC Cryptic Super-spreader / Super-Mutator Variant Crisis

II: and then to **Declare** a **Strategic Initiative** for the **Proposed Creative Solution** with an **Enforced Ceasefire** throughout **Gaza** and **Israel** and the **Middle East**

*** The above points can all be made directly to

Dr. Harold Varmus, and/or

Dr. Michael Osterholm, and/or

Dr. Charles Rice and/or

Dr. David Ho

for them to strongly advise President Biden to Declare a State of National Emergency based on the new Covid Health Crisis data

and then for them also to make a **strong recommendation** to Biden for an **Enforced Ceasefire**, either through the **United Nations**, or through the Declaration of a **Strategic Initiative** for an **Enforced Ceasefire** like those used **twice** during the **Yugoslavia Wars** in 1990s.

RESULTS:

Figures:

Figure 01: The graphic below is an demonstration example taken Figure 04 from the MS-04 about the BQ.1.X Crisis, which shows an annotated screenshot taken of an Outbreak.info - Tracked Lineages Over Time WEB API tool that has been programmed to show the succeeding Alpha*, Delta*, Omicron*, and BQ. 1* labeled Variant Waves since the beginning of the Covid Pandemic.

The (* indicates that it is the actively updated composite wave curve that actively lists all of the current Subvariants for that Variant.

Figure 04 - The graphic below is an annotated screenshot taken of an Outbreak.info Tracked Lineages WEB API tool that has been programmed to show the succeeding Alpha*, Delta*, Omicron*, and BQ.1* labeled Variant Waves since the beginning of of the Pandemic. The (*) indicates that it is actively updated composite wave curve that actively sums the all of the current Subvariants for that Variant.

for the BQ.1* curve shows the text list of the 54 Subvariants at that time.

During the **month** since that data was taken. 7 more **BQ.1* Subvariants** have emerged in that very rapidly mutating BQ.1* lineage, so that the are currently a total of 63 BQ.1* Subvariants.



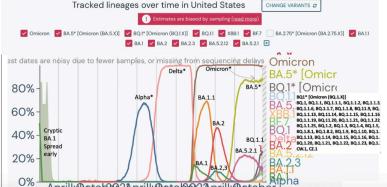


Figure 02a - CDC Nowcast - shows CDC Nowcast for the USA - Nowcast Estimates in United States for 9/29/2024 - 10/12/2024 -

KP.3.1.1 at 57.2% and XEC at 10.7%

These CDC results are very comparable with the Outbreak-Info data shown in the next Figure 02b0 Tracked lineages over time in the United States

KP.3.1.1 at about 50% (top right) and XEC at about 10% (bottom right).

*** This **confirmation** of the **Outbreak-info Data** with **CDC data** is important since many readers may not be familiar with the **Outbreak-info Tools**.

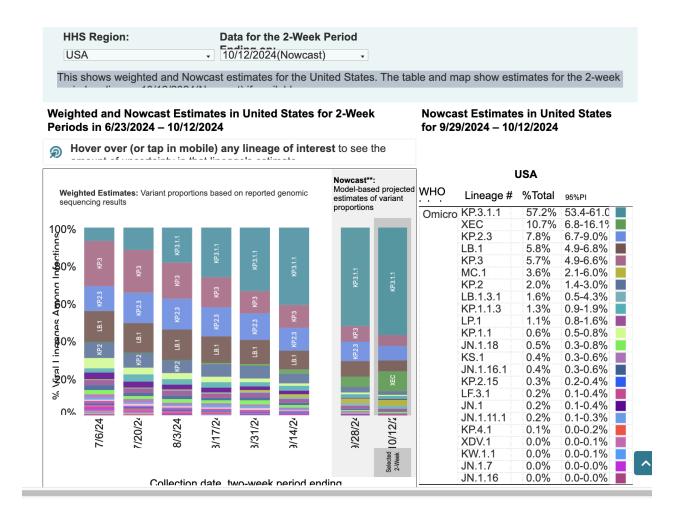


Figure 02b - 2024-09-28 - Tracked lineages over time in the United States - over last 1 year - KP.3.1.1 at about 50% (top right) and XEC at about 10% (bottom right). png



Figure 03 - **2024-09-28** *Tracked lineages over time in Israel* over the last 1 year - v1 - No selection - *KP.3.1.1* at about **40**% (top right) and *XEC* at about **5**% (bottom right). png



Figure 04 - There were 88 *new* JN.1.X Cryptic Covid Sub-Variants created in the 16 days between Sept 03 2024 (left panel) and Sept 19 2024 (right panel) Outbreak-Info Data Updates for the Variant | Tracker (https://outbreak,info/situation-reports).

That was a 25% increase in Variants in just 16 days, from 368 to 456 Variants.

By contrast, the *first* 75% of that total had taken 10 months to create since the **single JN.1 variant** that was present in the **January 10 2024** Data Update



Figure 05v3 - Extremely Rapid 20X Mutation Rate of the currently dominant KP.3.1.1 Variant for the expanded Variant | Tracker.

In just 16 days from Sept 3 2024 to Sept 19 2024,

Left panel - Sept 3 2024 - the KP.3.1.1 Variant Lineage has only 1 Sub-Variant MC.1

Right panel - Sept 19 2024 - the KP.3.1.1 Variant Lineage now has 20 Sub-Variants

MC.1, MC.2, MC.2.1, MC.3, MC.4, MC.5, MC.6, MC.7, MC.8, MC.8.1, MC.9, MC.10, MC.11, MC.11.1, MC.12, MC.13, MC.13.1, MC.14, MC.15, MC.16

That is a 20X Mutation Rate in just 16 days for the KP.3.1.1 Variant !!

and four of those new Sub-Variants have already mutated to start creating their own

KP.3.1.1.X Sub-Variant Lineage - MC.2.1, MC.8.1, MC.11.1, MC.13.1,

in just 16 days!!

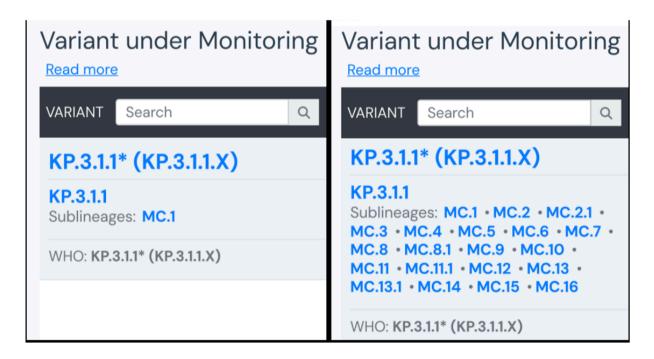


Figure 06: the currently dominant KP.3.1.1 Variant has already reached 53% Worldwide.

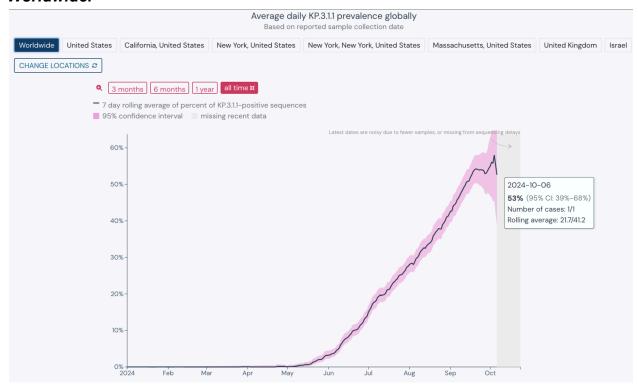


Figure 07: the currently dominant KP.3.1.1 Variant has already reached 52% in the United States.

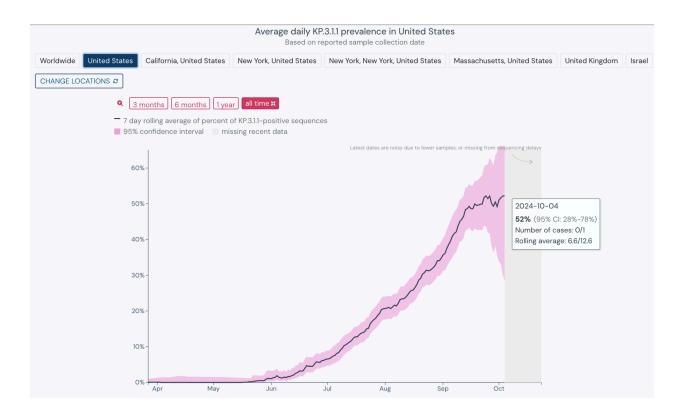


Figure 08: the currently dominant KP.3.1.1 Variant has already reached 45% in Israel

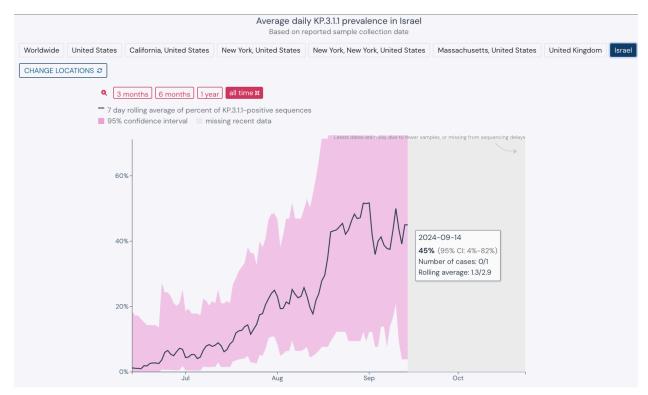
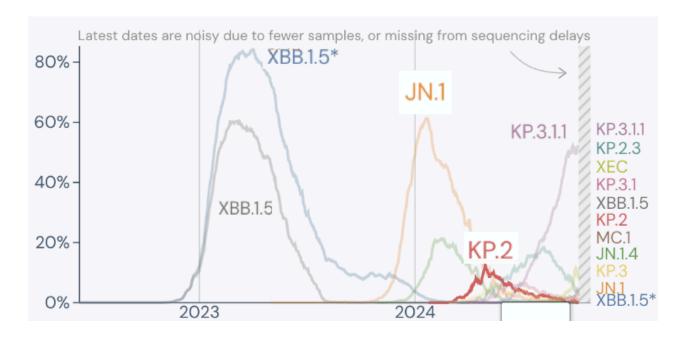


Figure 08 - Average daily KP.3.1.1 prevalence v8 - in Israel - KP.3.1.1 at 45% in Israel - Oct 11 2024 Data Update

Figure 09 Clear preliminary evidence that that the KP.3.1.1 subvariant is apparently evading the current anti-KP.2 vaccines.and

*** This new graphical Covid Variant Wave data for KP.3.1.1 in Figure 9 should be able to convince Covid experts - and then for them to strongly advise President Biden - that there is an URGENT NEED to make a new mRNA Vaccine against the KP.3.1.1 variant,

Screenshot of **Tracked Lineages Over Time** in the United States showing the series of **succeeding Super-Spreader Variant Waves** (from the **Outbreak.info Web API**



2024 data (right half of this Time line)

In fact, the **KP.2 wave** was rather **modest in size** and and **short in duration** with **KP.3.1.1** now **rapidly out-competing ("out-spreading")** the **KP.2 variant** The most recent **KP.3.1.1 variant** has rapidly become **dominant** in the **USA** and throughout the world, including **Israel** and certainly in **Gaza**

*** This new graphical Covid Variant Wave data for KP.3.1.1 in Figure 9 should be able to convince Covid experts - and then for them to strongly advise President Biden - that there is an URGENT NEED to make a new mRNA Vaccine against the KP.3.1.1 variant,t,

and later also against the XEC variant, because XEC is now clearly starting to out-compete KP.3.1.1. in the United Kingdom as here in Figure 10a -

2023 data (left half of this Time line)

XBB.1.5 at the left, which peaked at about March 2023 I

XBB.1.5* (also called XBB.1.5.X) which has mutated rapidly to contains 251 subvariants

Both of the **Pfizer** and **Moderna mRNA vaccine updates** in 2023 were made against this **single XBB.1.5 variant** because of this **strong wave peak**, with the belief that most of the **strongest new variants** would be **derivatives** of this **parental variant.**'

However, clearly the JN.1 and later variants were not were able to **evade** or escape from the anti-**XBB.1.5 Vaccines**

Figure 10a - XEC clearly appears to be starting to **out-compete KP.3.1.1.** in the **United Kingdom**

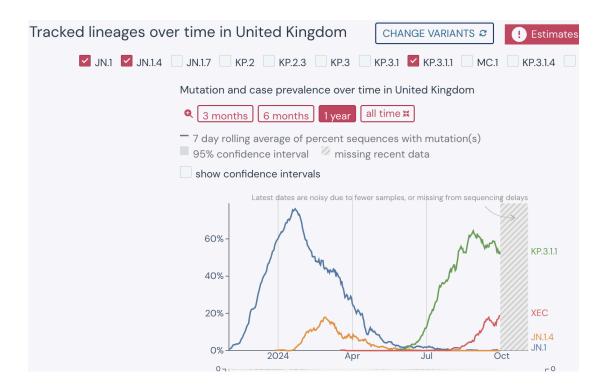


Figure 10b - XEC is not yet clearly starting to out-compete KP.3.1.1. in the United State



Figure 11 from Article 11v11c - where this Figure is described in much more detail.

Figure 11 TEXT ONLY PREVIEW of FULL GRAPHICAL DATA original copied below of most recent update

Figure 11a - Dec 21 2024 - Average Daily *KP.3.1.1* Prevalence Worldwide - rising steadily to about 40% and then dropping rapidly to about 19% Worldwide PNG

Figure 11b - Dec 21 2024 - Average Daily XEC Prevalence Worldwide - rising "exponentially" to about 33% Worldwide !!!. PNG

SARS-CoV-2 (hCoV-19) Mutation Reports Lineage | Mutation Tracker https://outbreak.info/situation-reports

Figure 11a

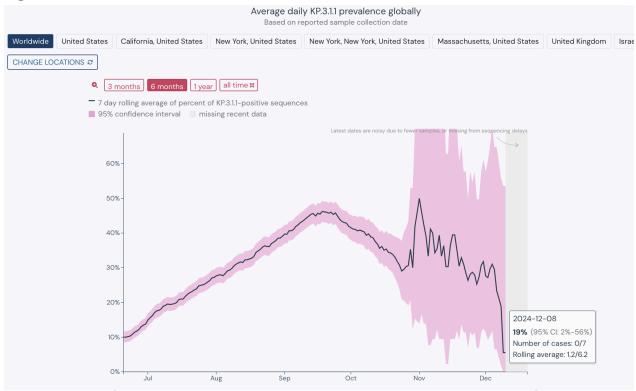


Figure 11a Legend - Dec 21 2024 - Average Daily KP.3.1.1 Prevalence Worldwide - rising steadily to about 40% and then dropping rapidly to about 19% Worldwide v3. PNG

Figure 11b

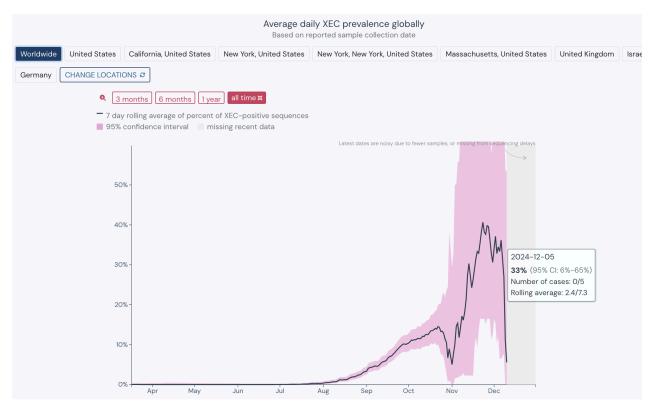
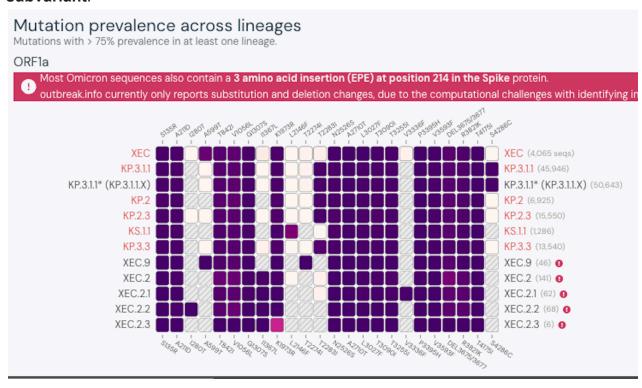


Figure 11b Legend - Dec 21 2024 - Average Daily XEC Prevalence Worldwide - rising "exponentially" to about 33% Worldwide !!!. PNG

Figure 12a

- Figure 12: The XEC Variant also has already mutated to create 15 distinct XEC.X subvariants in the latest
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Figure 12b - *Lineage Comparison* of some of the *XEC.X* subvariants with other *JN.1.X* subvariants, such as the *KS.1.*1 and *KP.3.3* which are the crossover parental strains for the *XEC* subvariant and also shown is the previously dominant KP.3.1.1 subvariant.



DISCUSSION: History of Collaborations and Proposed Collaborations with Various Pew Scholars in the Biomedical Sciences and other non-Pew Biomedical Scientists

Next Steps for v8:

1) The Covid Super-Spreader / Super-Mutator Intrinsic Replication Mechanism

It has turned out that the 1000X mutation rate mechanism that was predicted in the December 22 2022 Email to Michael Osterholm for every Delta positive person, has created the subsequent firestorm of mutations and more and more likelihood of creating a "Doomsday Variant" that is spreading and mutating so fast that it cannot be stopped,

Explanation for the long and repeated delays in follow Sequence of 5 Omicron Super-spreader / Super-mutator Crises in 3 months:

Michael, Craig and Charles, please realize that for the past two years, I ended of being blocked twice from applying for a Pew Innovation Collaboration Award because of the very rapidly evolving - ie rapidly mutating - Covid variant lineages that can also be given new radically different= for example, the closely related BA.2.86.1 and JN.1 variants (aka "Alphabet Soup").

In 2023, I was working with **Kara Coleman** - who was **very responsible** and **helpful** - to get an **application submitted** in time for the **Pew Innovation** award deadline.

But last year I had the **very same problem** of being **repeatedly delayed** in **submission** because the **virus kept mutating** and a **new Super Spreader Variant emerged** in almost **every Data Update** with seemingly **unrelated names**!!

Craig, I sent an **email** to **you** and **Kara** about this **problem** on **March 5 2023** that described this problem.

March 5 2023

EMAIL MESSAGE to *Kara Coleman* and *Craig Mello*Subject

MOST URGENT - Please Confirm Receipt re: 3 Covid Crisis-related Requests: Please review ASAP this URGENT Covid Super spreader Crisis information for the following 3 purposes:

- 1) as a late submission for the Pew Innovation Fund award,
- 2) to **confirm** whether it should be **sent ASAP** to **President Biden** with a call for **IMMEDIATE ACTION**;
- 3) If **not accepted** for **Pew Innovation Fund review**, please **recommend** some **other source** of funding from Pew or other specific sources.

...

2) Sequence of 5 Omicron Super-spreader / Super-mutator Crises in 3 months:

There were 5 major new Variants of Concern emerge since the December 9

2022 email to Craig Mello with the Proposed Collaboration to design and

create a Dominant Negative ACE2 Receptor,

These new Variants of Concern which had created 5 major new

Super-spreader / Super-mutator Crises, often starting in the New York area

Crisis 01 - BQ.1.X *Super-spreader / Super-mutator* Crisis - Dec 19 2022 Data Update

Crisis 02 - XBB.1.X Super-spreader / Super-mutator Crisis - Jan 09 2023

Data Update

Crisis 03 - BA.2.75.X Super-spreader / Super-mutator Crisis - Feb 17 2023 Data Update

Crisis 04 - XBB.1.5.X Super-spreader / Super-mutator Crisis - Feb 21 2023 Data Update -

NOTE: this is just 4 days since the Feb 17 2023 Update but there is now a new dominating Variant, with an apparently completely unrelated Name!!

Crisis 05 - XBB.1.5.7.X Super-spreader / Super-mutator Crisis - Feb 24 2023 Data Update -

NOTE: this is just *3 days* since the **Feb 21 2023 Update** but there is now a **new dominating Variant**,

I specifically addressed Crisis 01 - BQ.1.X Super-spreader / Super-mutator Crisis in an email sent on Dec 23 2022 to Pew Scholar Tom Maniatis, Harold Varmus and Michael Osterholm

Maniatis cc Varmus Osterholm - Dec 23 2022 URGENT: 3 related things:

- 1) Please help me get this **URGENT Omicron BQ.1.X crisis info** to **Harold Varmus** today to **warn Biden**;
- 2) Pew Scholars Innovation Collaboration application;
- 3) NY Genome Center job application for a Technology Innovation program PDF

I also specifically addressed Crisis 01 - BQ.1.X Super-spreader / Super-mutator Crisis in an email sent on Jan 20 2023 to Pew Scholar Michael Eisen

Eisen - Jan 20 2023 Email - Followup Email for recent phone message - Potential Pew Scholars Collaboration on Computational Analysis of Covid Super-spreader Variant Evolution throughout the Covid Pandemic. PDF

That **Eisen - Jan 20 2023 Email** PDF has now been added to the specific set of now 6 PDFs of previous Email messages.

3) Mathematical / Computational Analysis of Covid Super-spreader Variant Evolution

As shown in my **Resume**, my **PhD** at **U.C. Berkeley** was in **Biophysics**, in which we were **taught how to rigorously** apply very carefully those Mathematical Methods that are the language of Physics to complex Biological Systems such as Computational Analysis of Whole Genome DNA Transcription Regjulatory Code Analysis, which is one of my own major areas of experience and expertise.

Michael Eisen also has a very strong background in **Mathematics** and **Computational Biology**, and

we have had an **ongoing discussion** for several years about the **critical fact** that the **background sequence** in **Genomici DNA** is not random, which almost **computational biologists** assume is to be random.

As a result, **standard** *Frequentist statistics* methods (such as **P values**) cannot be used, and other methods, such as *Bayesian statistics* must be used instead. One of my major reasons for wanting to collaborate with Michael Eisen on this project is to get his advice about how to do *Bayesian statistics* on **Whole Genome DNA sequences.**

4) Knowledge Systems Approach

Three Examples

1) Haiti Earthquake Knowledge Dashboard
Knowledge Systems Approach
Web Knowledge Dashboard like those used for Genomics
Research

used to solve resource logistics during the Haiti
Earthquake Crisis
Creative / perhaps novel use at that time of Twitter Hashtags

2) The Truth About Race based on Genetic Science
Knowledge Systems Approach
1000 Genomes Project Quantitative Info
used to solve

Human Racism Crisis

3) Covid-Gaza Ceasefires Project

Knowledge Systems Approach

We had been working on the **Covid crisis** and **Gaza crises separately**When it eventually occurred to me that we could use the **Covid Crisis** as a rationale for **President Biden** to **demand Ceasefires** in Gaza and Lebanon

to avoid massive Super-Spreader events

New TAR 2.0 - The Truth About Race based on Genetic Science 2.0

Every Human Being is of Equal Value

5) The Covid Cryptic Variant Tracker Tool:

That Covid Cryptic Variant Tracker Tool is described more completely in the very last slide in the <u>linked MS-</u>07, but the main components can be briefly outlined here as including:

Real Time Quantitative PCR (RT-qPCR) for accurate testing whether National and International Travelers are in fact asymptomatic carriers of very high-level expressing Covid variants. This is a potential diagnostic for identifying possible carriers of new Super-Spreader Variants. as described briefly at the end of in MS-07:

The Covid Cryptic Variant Tracker Tool: from MS-03-2021

Part of a **potential Multi-Component general solution** that builds on and extend current tools was developed to address the previous **Delta** / **Omicron Cryptic Super-spreader Crisis** as well as other future variant crises.

Focused Micro-Tracking is one component, in which, for example the Delta AY.4.2.3 Lineage Report from the Geographic Prevalence the tab section in Outbreak.info web app can be used to "Micro-Track" - drill down / "focus into" - into the Germany AY.4.2.3 Variant map to Micro-Track, Micro-Test, and

Micro-Trace potentially all **963 cases** of the **AY.4.2.3 infected persons** who have already been identified in Germany to date, starting immediately, for example, with the **101 cases** in **Saarland** that was discussed in a previous slide.

This would be followed by focused **quarantine** - ie a "**Focused Micro-Lockdown**" - only of those specific persons, and only for the time period necessary to prevent the spread of the virus.

6) Covid Crisis Knowledge System 2021-2024

Covid Cryptic Variant Tracker Tool: part of a more general Covid Crisis Knowledge System 2021-2024

for creating / discovering / managing critical knowledge need to solve urgent problems Covid Crisis related problems, such as the ' Dominant Negative ACE2 Receptor Approach

Central online Knowledge Base integrating...

Digital Vaccine Passports
Focused qPCR Micro-Testing
Focused Micro-Tracing
Dimagi Contact Tracing Software

This is just a brief description of the *Covid Crisis Knowledge System 2024*, and the *full proposal* will be provided in a separate presentation.

7) URGENT NEED for President Biden to ACT NOW

I believe that if we can get this *new JN.1.X Covid data* to **President Biden**, through *Charles Rice*, or *Harold Varmus*, or *Michael Osterholm* or *David Ho*, or other **Covid experts**, that Biden can be convinced to **declare** a *State of National Emergency* based on this **newest Covid Health Crisis** data.

8) President Biden can help to Save the People of Gaza and Lebanon

and help end the current MidEast War

and help save Democracy new KP.3.1.1 and XEC Sub-variants of the

JN.1X lineage
Digital Passport Mandates
Restrictions on Local and International Air Travel

In the World

Immediate Enforced Ceasefires in Gaza and Israel and throughout the MidEast Region

Declaration of a Strategic Initiative

US + UN + NATO

US + Coalition of the Willing

like those used twice during the Yugoslavia Wars in the 1990s

*** Iran, Hamas and Hezbollah have all said they will stop the War if there is a Ceasefire in Gaza

This will **call for implementation** of the **Covid-Gaza Ceasefire Crisis Project** that is presented here..

9) SUMMARY / OVERVIEW

Covid-Gaza Ceasefire Article 13v9 - "There is a rapidly emerging but Cryptic (asymptomatic) COVID JN.1X Super-Spreader - Super-Mutator Crisis that has already created 456 rapidly mutating Sub-Variants, including the currently dominant KP.3.1.1 and XEC Sub-Variants.

MOST URGENT -

President Biden can use this new global JN.1.X Cryptic Super-Spreader / Super-Mutator Crisis - that includes the currently dominant KP.3.1.1 and XEC Variants - to

1) Declare a State of National Emergency in the USA with Mask and Vaccine Mandates. and the other specific ACTION NOW defined below.

This new graphical Covid Variant Wave data for KP.3.1.1 in Figure 9 should be able to convince Covid experts - and then for them to strongly advise President Biden - that there is an URGENT NEED to make a new mRNA Vaccine against the KP.3.1.1 variant,

2) also to use this global Cryptic (asymptomatic) Covid crisis to Declare a Strategic Initiative through the UN and WHO for an Immediate Enforced Ceasefire in both Gaza and Lebanon.

President Biden can help to Save the People of Gaza and Lebanon and help end the current MidEast War and help save Democracy

10) Final Comments

to be added later

11) References

to be added later