

From: (b)(3):10 USC 424; (b)(3):50 USC 3024(i); (b)(6); (b)(3):50 USC 3024(m)

To:

CC:

Subject: RE: Introduction

Date: 2020/04/02 09:31:59

Priority: Normal

Type: Note.SMIME.MultipartSigned

~~Classification: UNCLASSIFIED//FOUO~~

Your welcome (b)(3):10 USC 424; (b)(6)

(b)(3):10 USC 424; (b)(6)

Go ahead and share the notes liberally, but with the caveat that they are a snapshot of the situation that is 2 weeks old, and subject to change.

As you probably already know, (b)(3):10 USC 424; (b)(6) on these types of topics, so I would trust his assessments over mine.

And you are probably familiar with (b)(3):50 USC 3024(i); (b)(6) specialized in coronaviruses. Again- I's trust his assessments over mine.

(b)(3):50 USC 3024(i); (b)(6)

They are both crazy busy of course

Good luck, and Stay well!

(b)(3):50 USC 3024(i); (b)(6); (b)(3):50 USC 3024(m)

National Intelligence Council / Office of the Director of National Intelligence

(b)(3):50 USC 3024(i); (b)(6); (b)(3):50 USC 3024(m)

From: (b)(3):10 USC 424; (b)(6)

Sent: Thursday, April 2, 2020 9:22 AM

To: (b)(3):10 USC 424; (b)(6); (b)(3):50 USC 3024(m)

Subject: RE: Introduction

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(b)(3):5
0
USC
3024(i);
(b)(6)

Thank you, (b)(6) This helps a lot. Much appreciated! The Word document answers a lot of questions. Is it OK if I share around the office?

(b)(3):10 USC 424; (b)(6)

From: (b)(3):50 USC 3024(i); (b)(6); (b)(3):50 USC 3024(m)

Sent: Wednesday, April 1, 2020 10:54 AM

To:

Cc:

(b)(3):10 USC 424; (b)(3):50 USC 3024(i);
(b)(6)

Subject: RE: Introduction

~~Classification: UNCLASSIFIED//FOUO~~

Hi (b)(3):10 USC 424; (b)(6)

All viruses have mutation rates that are very high relative to eukaryotes or even other microorganisms. This is true for +ssRNA based viruses like SARS COV-2. However, it is lower than many and of course there is strong selection pressure to maintain host recognition. (which is why they are confident a vaccine will be durable)

The 14 day quote is an extrapolation that really doesn't work for the kind of comparisons being made. They are trying to equate the acquisition of genetic variation in a circulating strain to accumulated changes in specimen sequences over time. This suggests a linearity that doesn't really exist under these circumstances. It is really a numbers game. So to answer your question, it can be either good or bad. Any adaptation that improves transmissibility at the expense of pathogenicity would be good, or really less bad. The biggest problem to making these kinds of assessments is that we are trying to make them with less than half the equation. Host response adaptations are just as important, if not more so.

WRT to patient 0 / natural host reservoir?....I thought last week that meat market Bats were the most likely choice – still may be, but there are (b)(3):50 USC 3024(i) that are shedding doubt on this.

I am sending my working notes, and (b)(3):50 USC 3024(i) which hopefully will help.

VB

(b)(3):50 USC 3024(i); (b)(6); (b)(3):50 USC
3024(m)

(b)(3):50 USC 3024(i); (b)(6); (b)(3):50 USC 3024(m)

From: (b)(3):10 USC 424; (b)(6)

Sent: Wednesday, April 1, 2020 9:53 AM

To: (b)(3):50 USC 3024(i); (b)(6); (b)(3):50 USC 3024(m)

Subject: Introduction

~~Classification:~~ UNCLASSIFIED//~~FOUO~~

Hi (b)(3):50 USC 3024(i); (b)(6);
(b)(3):50 USC 3024(m)

(b)(3):10 USC 424; (b)(6)

(b)(3):10
USC 424;
(b)(6)

Hope you are well. I am a new employee (b)(3):10 USC 424; (b)(6) I was chatting with (b)(3):10 USC 424; (b)(6) yesterday afternoon about the Coronavirus and she said you would be a good person to talk to and get to know!

My background is in toxicology so I apologize for some of these elementary questions:

(b)(3):50 USC
3024(i)

I look forward to getting to expand my network and talk science. Please, no rush on answering these. I understand you must be very busy.

(b)(3):10 USC 424; (b)(6) definitely misses you around here!

V/R,

(b)(3):10 USC 424; (b)(6)

The final page is withheld in full citing (b)(3) 10 USC 424 + 50 USC 3024(i) + 50 USC 3024(m) and (b)(6) and is not provided.