

## Analysis and Countermeasures Against the Persistent Mutants of Omicron Viruses

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**Received:** December 30, 2022; **Published:** January 21, 2023

DOI: 10.55162/MCMS.04.099

### Abstract

This year, we reported the reasons for continuing Omicron to collect information on amino acids associated with Omicron. We found the relationship between the number of atoms (C, H, N, and O) in the amino acids to the Omicron's characteristics. Following it, we discuss the many variants of the present Omicrons to analyze more kinds of amino acids. We estimate the mix of the present Omicron and its effect on other diseases like diabetes rather than the respiratory system at the beginning time. Based on this analysis, we found the developed water will give a particular resolution.

### Introduction

People have established medical treatments to quell or remedy many diseases, fearing incurable diseases because of the progress of medicine in the present time. When we look at the outline of a virus, smallpox occurred every five years in Japan from 1700 to the 1800s [1].

Spanish flu was a famous pandemic that occurred in 1918~1920; it was said that 500 million people were infected worldwide and reported 50 million or more deaths [2]. In the 21<sup>st</sup> century, they first confirmed MERS (middle east respiratory syndrome) in London in 2012. Recently, coronavirus disease (COVID-19) is a contagious disease caused by a virus, leading to a worldwide disease. They have been approved and distributed in various countries, which have initiated mass vaccination campaigns. (COVID-19-Wikipedia) [3].

In modern society, the movement of people is frequent worldwide, meaning the pandemic diffuses fast and comprehensively. COVID-19 is mainly transmitted by the movement of people who breathe in air containing the virus aerosol particles. Survivors of COVID-19 occur in brain injury reported the possibility of broad evidence like cognition, behavior, and psychological problems [3]. Furthermore, viruses and bacteria are fate to a symbiotic living with us. The respiratory syncytial virus is an acute respiratory infection that happens in infancy and is bronchiolitis and pneumonia [4].

It looks challenging to respond to the progress of the proper vaccination for each variant since there are some kinds of variants of COVID-19 this time. Here we report the discussion from the viewpoints of basic sciences, which amino acids in the spike protein and the proteins formed by a virus following the previous reports [5] and [6] since Omicron (omega virus) have spread out in the world.

We introduce recent virus infectious mechanisms from the viewpoint of amino acids. As previously, we collect the variants information of the identified and analyzed amino acids and their structures. Then, we focus on the chemical formula and atomic bonding strength involving amino acids resulting from the current pandemic.

Furthermore, we refer to how to protect a virus with water, along with theoretical ideas and evidence. The water, more higher-pressurized than ordinary tap water, possesses assumingly the pico-sized particle, which emits far-infrared and terahertz electromagnetic waves besides chemical reduction to viruses and diseases. Finally, we outline the water function's mechanism to a virus.

### *The reason for many variants from Omicron*

The omicron variant from SARS-COV-2 is classified as a variant of concern (VOC) by WHO. It is the epidemic expansion in the world now, as we recognize, around thirty amino acids related to the spike proteins since the SARS virus. Two variants, BA4 and BA5, do not seem to be separated remarkably.

Six amino acids do not utilize a spike protein and protein formed by the virus; they are histidine, methionine, isoleucine, proline tyrosine, and tryptophane, as far as we consult the structural information of each virus.

The amino acids associated with variants possess the function of neurotransmitters (like aspartic acid, phenylalanine, and serin), although we do not find the reason at present.

### *Why is BA.3 a less-prevalent Omicron subvariant?*

It can be speculated that the reason for the BA.3 lineage spreading at very low speeds and causing fewer cases may have been due to the loss of six mutations (ins214EPE, S371L, G496S, T547K, N856K, and L981F) from BA.1 or obtaining two mutations from BA.2," says the January 2022 research study.

Here, we estimate amino acids of the variant BA3 to put <T547K>, <N856K>, and <L981F>. We find the characteristics of the virus BA3 and BA4 remarkably similar, and it isn't easy to distinguish them. The exciting issue is the number of carbon atoms in the amino acids Omicron produces. The changes of C and H in BA3 and BA4 increase rather than O we experienced in the respiratory system.

### *Relations of other diseases such as diabetes with omicron infection*

The high blood sugar level after the infection can be a temporary condition caused by acute stress. Regarding neurological invasions, the covid-19 virus can enter only those cells with angiotensin-converting enzyme 2 (ACE2). These include excitatory and inhibitory neurons but are also present in small blood vessels in the brain that can potentially act as a place of entry for the virus. Despite all the conversation and research around this topic, we found that covid-19 infection can lead to cognitive dysfunction, which may continue to exhibit itself for years after the disease is detected.

So far, conducted studies have shown a bi-directional relationship between dementia and viral infections such as covid-19.

People with dementia have at a greater risk of contracting these viral infections and vice-versa. Thrombosis is also a potent threat to people suffering from covid-19. Thrombosis is a leading cause of strokes and can lead to fatalities in people suffering from covid-19. However, there is no clear answer as to if covid-19 can cause or worsen pre-existing dementia. We estimate the water function to remedy dementia (assumingly, brain cell oxidation) since thrombosis relates to water.

### *What's the difference between BA.4 and BA.5?*

The World Health Organization has said that BA.5 accounts for more than half of the world's cases of BA. Four charges for just over one in 10.

Why BA.5 has overtaken BA.4 is a mystery because they're so similar [8-11].

<E484A> is characteristic to BA1 and BA2. BA5 is like the delta variant, L452R (L; leucine, R: arginine), the virus that occurred in India (October 2020).

The BA.4 and BA.5 sub-variants of Omicron are estimated to make up about 8.3% and 13.3% of the coronavirus variants in the United States as of June 11 (2021), according to the U.S. Centers for Disease Control and Prevention (CDC).

“They have similar spikes. So that means it must be something outside the spike. And really our understanding of that from a virological perspective is very poor” according to a virologist at Imperial College London (Thomas Peacock). The BA.4 and BA.5 sub-variants of Omicron are estimated to make up about 8.3% and 13.3% of the coronavirus variants in the United States as of June 11, the U.S. Centers for Disease Control and Prevention (CDC). The variant from SARS does not necessarily need oxygen, which means the virus does not attack the respiratory system in the human body. It is why the virus can avoid attaching to the human body’s immune system.

### *The mechanism of pico-sized water plays a role in a virus*

The water we reported is pressurized water without any additives that are assumingly the pico-sized particle to possess the chemical reduction because of  $((H^+ \sim e^-))$ , which we call Quasi Pico-Particle [12]. We call this SIGN water (Spin Information Gauge Network --- the state with spin like the elementary particle). The Quasi Pico-Particle oscillates between proton and electron with 30 to 70 pico-meters, neither H atom nor ions. Furthermore, the particle functions chemical reduction which we reported [13, 14], and decreasing radioactivity of contaminated soils in Fukushima, 2011, which is the nuclear changes [15, 16]. We discussed the stability of the Quasi Pico-Particle based on quantum mechanics, including experimental methods [17]—people who know our water drink and use it in daily life. People do not get infected, although we do not analyze them statistically.

<i>Variant</i>	<i>Amine; human &lt; &gt; virus</i>	<i>C carbon</i>	<i>H hydrogen</i>	<i>N nitrogen</i>	<i>O oxygen</i>
BA1	N<501>Y; N, asparagine Y, tyrosine	4/ 9	8/ 11	2/ 1	3/ 3
BA2 Stealth Omicron	S<371>F; S, serine, F; phenylalanine D<405>N; D: aspartic acid, N; asparagine	3/ 9 4/ 4	7/ 11 7/ 8	1/ 1 1/ 2	3/ 2 4/ 3
BA3*	S371L; S, serine, L: leucine, G496S; G, glycine, S, serine	3/ 6/ 2/ 3/	7/ 13/ 5/ 7/	1/ 1/ 1/ 1/	3/ 2/ 2/ 3/
BA4**	T547K; T, threonine, K, lysine, N856K; N, asparagine, K, lysine L981F; L, leucine, F, phenylalanine	4/ 6/ 4/ 6/ 6/ 9/	9/ 14/ 8/ 14/ 13/ 11/	1/ 2/ 2/ 2/ 1/ 1/	3/ 2/ 3/ 2/ 2/ 2/
BA5	L<452>R; L; leucine, R; arginine F<486>V; F: phenyl-alanine, V; valine	6/ 6 9/ 5	13/ 14 11/ 11	1/ 4 1 1	2/ 2 2 2

Note: \* The third, BA.3, is yet to take off globally, only accounting for several hundred cases at the most, and \*\* BA4 according to WHO reports (2021).

**Table 1:** Amino acids of spike proteins and formed proteins by each virus, and the number of element changes depicted by slash.

We reported the essential function of a virus with a discussion including the bonding strength of each atomic chain in the amino acid [18].

MERS (Middle East Respiratory Syndrome) has been reported since 2012, a pandemic due to Dromedary, and limited in the Arabian Peninsula. We always live with bacteria, viruses, and other microbes. Namely, we must be intelligent regarding the essence of things in daily life.

## Conclusion

Here we reported the countermeasure of many variant viruses (COVID-19) under symbiosis following the previous report with evidence of people. Here we introduced that the many variants showed the present omicrons to analyze more kinds of amino acids. We estimate the mix of the present Omicron and its effect on other diseases like diabetes rather than the respiratory system at the beginning because the number of carbon in amino acids changed from spike protein to the protein virus produced. Based on this analysis, we found SIGN water that we developed will give a particular resolution. It is a primitive method of drinking water.

## Acknowledgment

We express thanks for the information on diabetes clients to president Mr. Matsubara of Agarics Co. Ltd.

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**Volume 4 Issue 2 February 2023**

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