

The Water Protects a Virus with the Weak Energy Involving the Elementary Particles

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Abstract

There have been published many researches about water in the various fields such as agriculture, chemistry, biology, medicine and physics. The targets of water research are these in daily life, ocean and in the air besides in the substances. Moreover, there are the theoretical study of water (H₂O) itself. *Ab initio* calculation and the density-functional theory have been reported on the hydrogen bond of water molecules and interaction between monomers, which research issue is associates with the water molecule itself. Here we present the theoretical concept to protect any virus involving in COVID-19, and the mechanism based on the reaction of amino acids with water involving a proton and electron which are essential to our body. It has been performed with the dissociation of hydrogen bond due to pressurization (more than 200 MPa) applied to ordinary water. Besides the smallness, the proton and electron may play a role to pass an electric current to protect a virus and a germ through the water in the body. The information of the water is supposed to be “momentum” (spin, mass and velocity) may protect any virus and germ due to chemical reduction by proton and electron in the water.

Keywords: Weak energy water; Proton & electron; Hydrogen bond; COVID-19, Amino acid

Introduction

Generally, the causes of disease and cancer have been researched in chemical senses such as hormones, genes, various substances including foods, other matter. However, a vaccine has been employed to protect against infectious diseases by antibodies against the virus, bacteria, fungi, and etc. In another viewpoint, we must regard the human body with a total system reported already in the 19th. We shall discuss a total system of the human body, in which water constitutes 70% in bodyweight and is said to be 80% in blood as well known. Water is more than unusual as well as it is standard material. Therefore, a variety of people reported with various fields. We do not refer to the previous papers all the time since there are tremendous amounts of publication. Even narrowing down to the molecule of water, there are researches of the structures in liquid, solid (like ice), vapor, interaction with some other material, and so forth [1, 2]. Although hydrogen bond itself has been reported [3], we have researched the water which is supposed to be less than one molecule, in considering that a cluster of water formed with hydrogen bonds might be dissociated with the high pressure. That process generates the presumed particle, infoton, ((H⁺~e⁻)) [4] in the water. Therefore, the water reported here is like an extended elementary particle in physics [5], which means very small seemingly. We call it SIGN water meaning “Spin Information Gauge Network”, although we do not discuss the physical term at present.

We experience the function of infoton both outside and inside a nucleus of any substance. The former one is the CO₂ reduction of

exhaust gases from a car [6] and to keep foods fresh in the zip-rock film [7] and. In the inside nucleus, we tested to reduce radioactivity from cesium-contaminated soils repeatedly resulting in stable barium with the weak energy of infoton in Fukushima (2011~2013) [8]. The viruses and bacteria's performance are interested in what kind of reaction with the water involving infoton. Here, we propose something interesting to explore water from two viewpoints in theoretical discussion for protecting any type of virus in terms of amino acids. Firstly, we discuss water itself referring to how the water we should take into a body for our immunity. In Second, it is recommended that we print the device and clothes activated with the SIGN water information on the body so that we can maintain normal functions in the body.

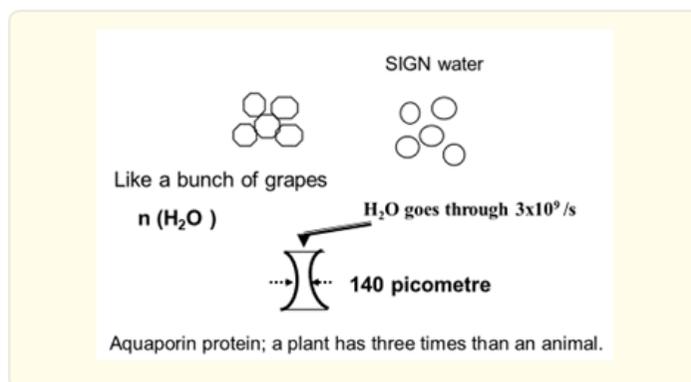
Method

The starting material is an ordinary tap water without any added substances, and water is applied to high pressure (200 MPa) for 10 min in the giant facility (approx.3mφ x 5m depth) containing water. After the process, the water in the pet bottle is named the specially-processed water (SIGN water) mentioned above. We analyzed the water to the relaxation time (T_2) and free induction decay (FID) in hydrogen-NMR (R-90H, Hitachi Co. Ltd.) [9]. we compare the values of T_2 and FID with them of the tap water of the original one [9]. And then we estimate the smallness of it indirectly. The nature of the SIGN water is assumed to have characteristics in a pico-size (10^{-12} m). Moreover, we use the Fourier-Transform Infrared spectroscopy (FT-IR 6000, JASCO) to confirm the transmittance of the terahertz wave (region of 0.6 to 20 THz) through the water since the THz wave is usually absorbed by an ordinary water [10]. One precious point for the "method" associating with the original SIGN water is transferring the information that the water possesses in an area (less than approx. one meter) as well as onto a substance. The two methods to print the information; 1) to immerse into the SIGN water, 2) to radiate something with the "activated" LED light (we call it SIGN light), and then the final method is to judge whether a processed-substance has the SIGN water's information or not, using NMR and SEM photos. Moreover, we use Ryodoraku and AMSAT (Automatic System Analysis Therapy) instruments to pass an electric current through the body to discuss the mechanism of function of the water. We can also use a common halo test and incubation test with an agar at room temperature. It is recommended that every sample be kept more than one meter to avoid transferring SIGN water's information to the control besides the usual biological test.

Effective absorption of the water into the body

Our body cell involves an aquaporin protein [11-14] to absorb water only, where the narrowest part is less than 200 picometres. When water goes through the aquaporin protein, the pressure becomes to be the computed value of approx.0.8MPa. It seems to be difficult for a cluster of ordinary water (estimated five H_2O molecules corresponding to 700~800 picometres) to run through the part of the protein quickly. That is why we research the pico-sized water, as mentioned above. The SIGN water can be rapidly absorbed into the body to reach every cell. The blood and other bodily fluids go back and forth resulting in the smooth function of transferring nutrition, necessary substances and exhaust CO_2 gases.

Now, we can imagine that infoton goes into every cell through aquaporin as shown in Figure 1.



We introduce the reason why the SIGN water is so small. Hydrogen bonding strength (hereafter HB) is one-tenth of O-O bonding [14], approximately. After HB dissociation shown in Figure 2, it is not necessary to regard the O-O bonding strength [15, 16]. Furthermore, HB energy corresponds to our body temperature (approx.0.03eV≈wave length of 47μm); namely, we can obtain sympathetic vibration so that every cell in a whole body can be “activated” with SIGN water. Therefore, pico-sized water is supposed to be a crucial matter to maintain immunity due to a proton and an electron in infoton. The infoton has two characteristics, (i) chemical reduction due to H⁺ and e⁻, (ii) the information of infoton (H⁺~e⁻) can be transferred to another substance in the network through a gauge field (a mathematical existence in space transmitting energy and information) even in space. The information might be momentum described with mass (1.67x10⁻²⁷ kg of proton and electron), and velocity is presumed to be 1% of the light speed so that water can be taken into a whole body through the aquaporin quickly.

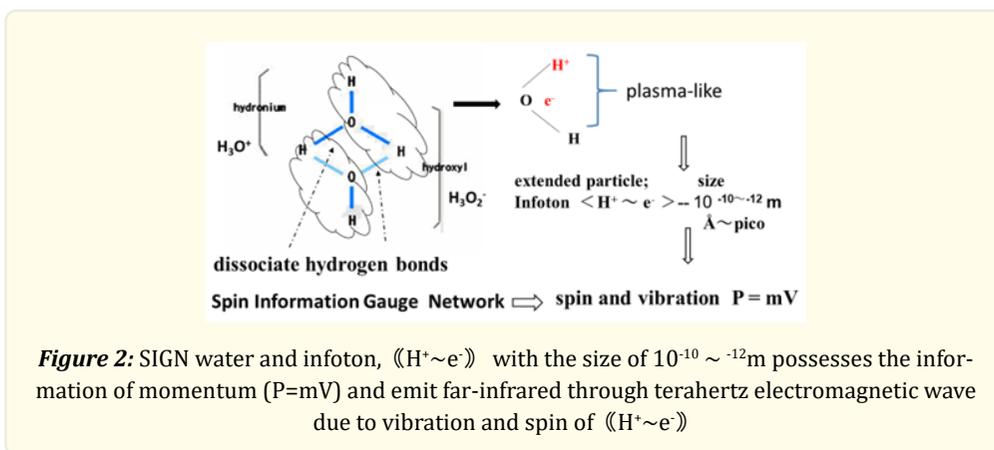


Figure 2: SIGN water and infoton, (H⁺~e⁻) with the size of 10⁻¹⁰ ~ 10⁻¹²m possesses the information of momentum (P=mV) and emit far-infrared through terahertz electromagnetic wave due to vibration and spin of (H⁺~e⁻)

Furthermore, we introduce the spin states for infoton, (H⁺~e⁻) ; 1 (=1/2+1/2), (H⁺~e⁻) ; 0 (1/2-1/2) or 1(= 1/2 + 1/2) and (H⁺~e⁻) ; 0(=1/2-1/2), because the spin of H⁺ is supposed to be +1/2, and -1/2 for e⁻. Their spins of infoton mean the characteristics possessing a fermion and a boson corresponding to the distance between proton and electron.

Evidences of smallness of SIGN water

One is the coffee powder illustrating the more pores in two photos (down) than the upper two photos. What we assume is the reason why the coffee powders in the paper bag put on the SIGN water obtain the terahertz and far-infrared electromagnetic waves, and a lone pair electron of the nitrogen in the air becomes “active” due to the vibration through the air. The electromagnetic waves may make the coffee powder smaller [17].

The next shows the broken test of beaker after defrosting of ice. The volume of ice crystal increases at freezing in the ordinary cup, but the pico-sized water ice does not make a significant volume change because of smallness of ice. As a result, the tissues in the meat cell generally break during defrosting, and water comes out with soluble components (dripping). However, the container possessing the information of the pico-sized water did not appear dripping phenomena [17].

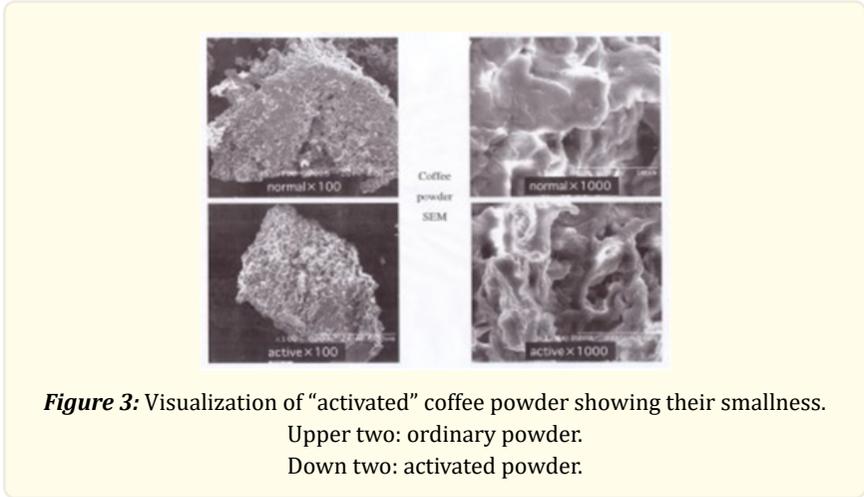


Figure 3: Visualization of “activated” coffee powder showing their smallness. Upper two: ordinary powder. Down two: activated powder.

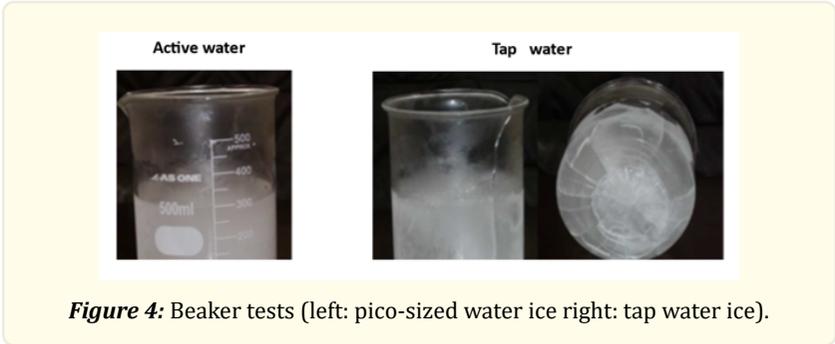
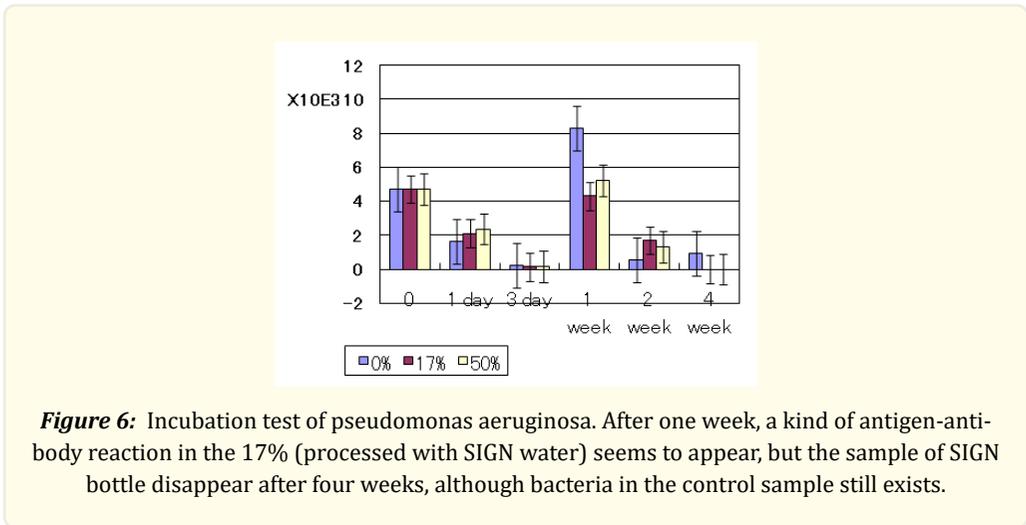
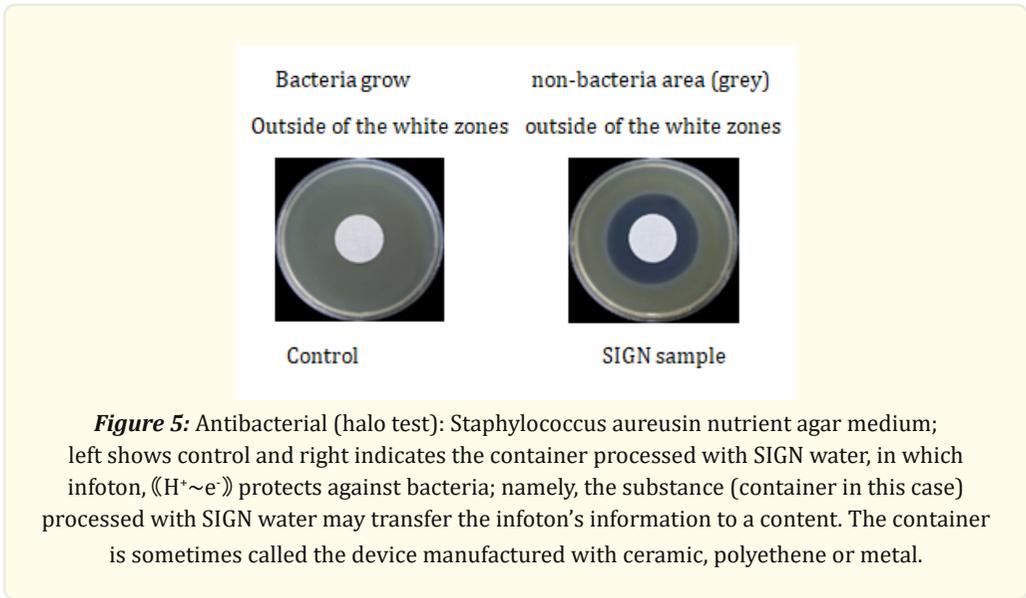


Figure 4: Beaker tests (left: pico-sized water ice right: tap water ice).

Theory for function of infoton against bacteria and viruses

Now moving onto the function of chemical reduction of infoton, both H^+ and e^- are agents for reduction and anti-oxidation [18]. To reduce is to cure a disease since we consider that disease is a sort of “oxidation” of a body. So, we can understand SIGN water plays a role of mend the condition, too. Therefore, infoton may firstly protect the COVID-19 to exclude bacteria and viruses even if they are aerobic or anaerobic. Because anaerobic bacteria want to reduce the atmosphere, they may live there. However, infoton makes nitrogen in the air and in the substance like amino acid activated through a lone pair electron in nitrogen; namely, the activated electron protects the anaerobic bacteria, and the electron in infoton may function as an electron beam, although it is weak.

Here is one of the evidences to staphylococcus aureus (Figure 5) and pseudomonas aeruginosa (Figure 6) although they are not COVID-19. We also tested Escherichia coli, but the data are not depicted here.



Now considering the protection mechanism of virus, we focus on the amino acids. There are twenty amino acids to constitute the body and the essential amino acids are eight (nine when histidine involves) [19, 20].

The development of new variations in the critical functional sites in the spike protein of SAR-CoV-2 was reported to suggest the origin and continuing evolution of the virus [21]. According to their report, the S type was found to be the ancestral version, although the L type (~70%) is more prevalent than the S type (~30%). Furthermore, the L type was more prevalent in the early stages of the outbreak in Wuhan [21]. The frequency of the L type decreased after early January 2020. Supposed that the spike protein for COVID-19 is different, L-type is an amino acid that is leucine, and S-type's amino acid is serine, as shown in Figure 7 [22, 23].

Indirect effects of infoton and evaluation

Now that, blood (7~8 % of bodyweight) circulates in a whole body. From different viewpoints, electrical medical care today is the treatment to conduct the current (flow of electron) across the entire body with water and blood. Furthermore, here is one of the methods to visualize the disease with these therapeutic methods such as Ryodoraku (neuro softer instrument) [24] in Figure 8 that measures resistivity (R) under a constant voltage (V), and then electrical conductivity (i) is calculated, for instances, in the case of $R=0.310^6\Omega\text{m}$ at 12V, then $i=40\ \mu\text{A}$ in Eq. (1). The simple schematic diagram depicts a tool in Figure 9, which one can also employ to cure the disease by putting current through the electro-permeable point in a body.

$$V = i \times R \tag{1}$$

$$Y_p = \frac{1}{R} + j \left(\omega C - \frac{1}{\omega L} \right), \text{ namely, } Y_p \propto I / V, \tag{2}$$

$$U = \frac{1}{2} L i^2 \text{ (Joule)} \tag{3}$$

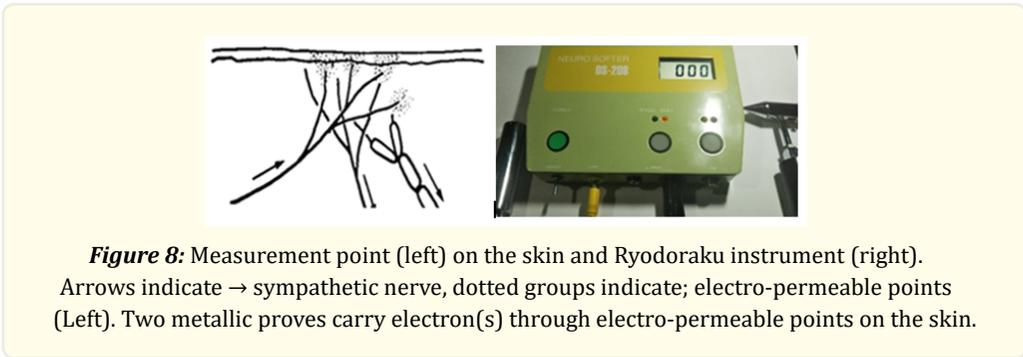


Figure 8: Measurement point (left) on the skin and Ryodoraku instrument (right). Arrows indicate → sympathetic nerve, dotted groups indicate; electro-permeable points (Left). Two metallic probes carry electron(s) through electro-permeable points on the skin.

It seems to be challenging and specialized to handle the Ryodoraku instrument, but it is a good one to visualize a whole system in a body to judge status of the autonomic nervous system. In the system, two metal probes are put on the skin to measure electrical conductivity between the cells. Here is one example of average values of resistivity on hand and foot; HF, $1.70 \times 10^6\Omega\text{m}$ and $0.75 \times 10^6\Omega\text{m}$ before and after treatment, respectively. In this connection, there are some examples of resistivity of the matters; pure water, 2.50×10^5 , paper, $10^4 \sim 10^{10}$, human being skin, $0.8 \times 10^6\Omega\text{m}$ and metal is naturally $10^{-7}\ \Omega\text{m}$. To begin with, the current means to make electrons get into a body leading to better blood-flow through the metal probes. In the same way, infoton in the water can help the current for the better blood-flow to a body, because infoton, $\langle H^+ \sim e^- \rangle$ possesses more reducing agent. Let us consider the parallel circuit (Figure 9).

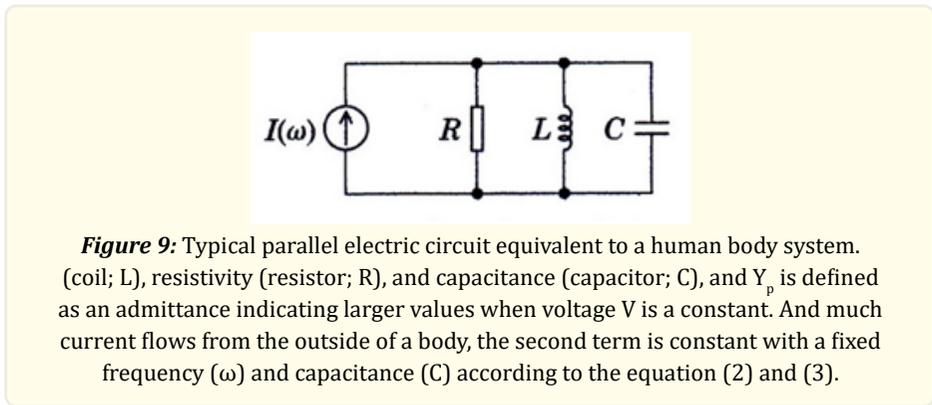
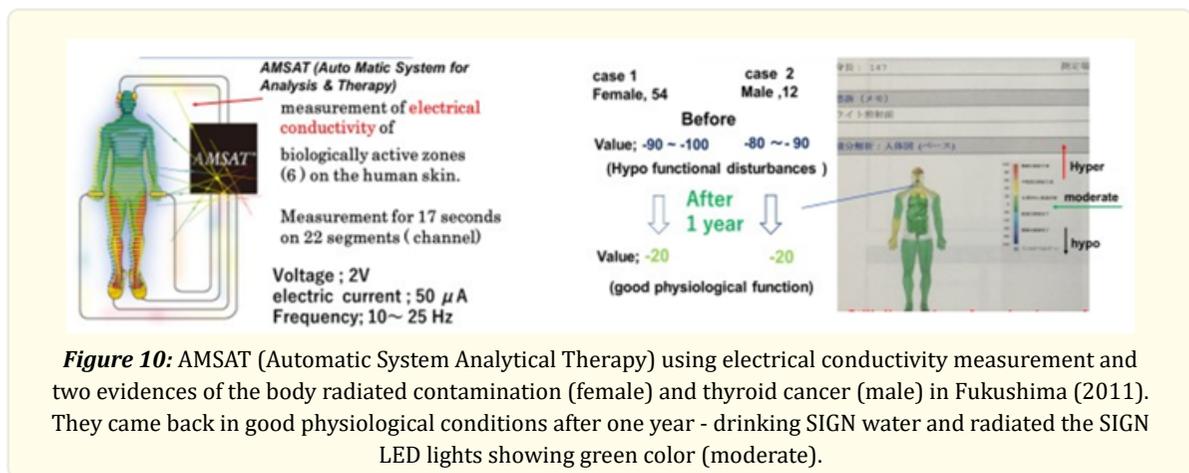


Figure 9: Typical parallel electric circuit equivalent to a human body system. (coil; L), resistivity (resistor; R), and capacitance (capacitor; C), and Y_p is defined as an admittance indicating larger values when voltage V is a constant. And much current flows from the outside of a body, the second term is constant with a fixed frequency (ω) and capacitance (C) according to the equation (2) and (3).

A capacitor store charges coulomb(C) in a series circuit and current can flow in Alternating circuit depending on an electrostatic capacitance. The capacitor is like skin or a cell containing water. The cell membranes function as a semiconducting capacitor with the electrodes due to containing water in a layer usually, then we refer to a coil in the circuit. This work of the current can accumulate the energy indicated in the equation (3). The energy exists as the magnetic field in the coil (substituted to “tsubo” in a human body). Therefore, electric current i is essential for energy, too. The energy may bring their own immunity.

We depict the therapy using electrical conductivity in the whole body in Figure 10. Left; concepts of the AMSAT. Right; two evidences, radioactive contamination of the woman body inside (case 1) and one shows the thyroid cancer of the boy (case 2). Around July in 2011, we did not execute the AMSAT only, because we wanted to cure their problems first. We consider that a cancer is a kind of oxidation of the cell. That is why the cancer may be cured by the elementary particles of infoton, ($H^+ \sim e^-$) to result in chemical reduction.



Conclusion

The SIGN water possessing weak energy including infoton, ($H^+ \sim e^-$) may protect any virus involving COVID-19 besides the bacteria by the functions of the chemical reduction (anti-oxidation) to amino acids, and change of the process for every cell with an electrical idea and method using the Ryodoraku and AMSAT instruments resulting in therapy. We discussed the protection of COVID-19 through amino acid level in physics and chemistry. Their works extended radiation reduction in the contaminated body. There is a possibility to cure a cancer to drink the SIGN water continuously. We have not completed trial for the protection of COVID-19, although the SIGN water test against the bacteria as we discussed here.

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References

1. “National Geographic Special Edition, Water, The Power, Promise, and Turmoil of North America’s Fresh Water”. William Graves, Editor (1993).
2. Pollack GH. The Fourth Phase of Water, Ebner & Sons Publisher, Ebnersons. com, Seattle Wa, USA (2013).
3. Cowan ML, et al. “Ultrafast memory loss and energy redistribution in the hydrogen bon bond network of liquid H_2O ”. Nature 434.7030 (2005): 199-202.
4. Sugihara S. Certificate of Trade Mark Registration No. 5138668, Japan Patent Office (2008).

5. Yukawa H. "Quantum Theory of Non-local Fields. Part I, Free Fields". *Phys. Rev* 77 (1950): 219-226.
6. S Sugihara and Hatanaka K. "Photochemical Removal of Pollutants from Air or Automobile Exhaust by Minimal Catalyst Water". *Water* 1 (2009): 92-99.
7. Sugihara S., et al. "The Mechanism of Activation of Substances by Minimal Catalyst Water and Application in Keeping Foods Fresh". *Water* 3 (2011): 87-94.
8. Sugihara S. "Deactivation of Radiation from Radioactive Materials Contaminated in Nuclear Power Plant Accident". *Water* 5 (2013): 69-85.
9. Derome AE. *Modern NMR Techniques for Chemistry Research* Pergamon Books Ltd., Headington, Hills Hall, Oxford, OX3, OBW, England (1991).
10. Sugihara S., et al. Certificate of Patent No.6666528, Japan Patent Office (2020).
11. Agre P., et al. "The aquaporins, blueprints for cellular plumbing system". *J. Biol. Chem* 273.24 (1998): 14659-14662.
12. Yasui M., et al. "Rapid gating and anion permeability of an intracellular aquaporin". *Nature* 402 (1999): 184-187.
13. Kozono D., et al. "Aquaporin water channels: atomic structure and molecular dynamics, meet clinical medicine". *The Journal of Clinical Investigation* 109.11 (2002): 1395-1399.
14. Tsenkova R. "Aquapoptomics: dynamic spectroscopy of aqueous and biological systems describes peculiarities of water". *J. Near Infrared Spectroscopy* 17.6 (2009): 303-314.
15. Emsley J. *The Element*, 3rd Edition, Published in the United States by Oxford University Press Inc., New York (1989).
16. Sugihara S., et al. "Microscopic Approach to Water by Using the DV-X α Method, and Some Innovative Applications". Springer, Switzerland, chap.10 (2015): 257-289.
17. Sunao Sugihara., et al. "Save of Environment and Living Organisms with Weak Energy of the Water". *MC Agriculture & Environmental Sciences* 1.2 (2021): 02-09.
18. Sugihara S and Nagasaka Y. "Anti-Oxidation of Rose-Hip Oil with the Specially-Processed Water". *EC Agriculture* 6.5 (2020): 85-91.
19. MuMurry J and Simanek E. *Organic Chemistry*, Sixth Edition, Thomson Brooks/Cole, a part of a The Thomson Corporation (2007).
20. We refer to the structure of amino acids with Wikipedia.
21. Xiaolu Tang., et al. "On the origin and continuing evolution of SARS-CoV-2". *National Science Review* 7.6 (2020): 1012-1023.
22. Bergwerk M., et al. "Covid-19 Breakthrough Infections in Vaccinated Health Care Workers". *N. Engl. J. Med* (2021).
23. Feng S., et al. "Correlates of protection against symptomatic and asymptomatic SARS-CoV-2 infection". Preprint at medRxiv (2021).
24. Oda H. "Ryodoraku Textbook". Naniwa sha Publishing Inc., Osaka (1989).

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