

Easy Method to Stop Global Warming and Method to Live Long

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Abstract

Stop the elimination of NOx is an easy method to stop global warming. Elimination of NOx at developed countries induced global warming. Elimination of NOx reduced the CO₂ assimilation and decreased fish production and Average life of Japanese is longest in the world. Reason of long life is Japanese etc. fish. Fish containing glucosamine, chondroitin, gluconic acid is good for anti-aging. If we stop NOx elimination with ammonia, and if we stop the N, P elimination of drainage, plankton growth is activated and Fish production will increase heat absorption by CO₂ assimilation increase and global warming will stop and people can enjoy long life.

Keywords: global warming anti-aging; anti-aging food; glucosamine; chondroitin; hyaluronic acid; iriko

Introduction

1. Stop the elimination of NOx is an easy method to stop global warming. Elimination of NOx at developed countries induced global warming. Elimination of NOx reduced the CO₂ assimilation and decreased fish production of fish. Anti-aging is a dream of people for ten thousand years. Average life of Japanese is men 80.5(third), women

86.83 (top in the world) I wonder why Japanese live longer than other countries. I believe that Japanese food based on fish is good for long life. Following story exist for long time, never throw away umbilical cord (connecting tubes between placenta of mother and unborn baby for the supply of nutrition), naval string and keep it at poulownia chest of drawers for long time, and when you get incurable sickness, boil it in water for long hours, then drink the solution, then heavy sickness will be cured. I wish to explain the reason why umbilical cord (main component is hyaluronic acid) is so effective. Hyaluronic acid chondroitin, glucosamine are now sold from several companies as health food and several million persons are drinking and enjoying health and long life. Author find the reason why these compounds are effective (ref 1-10)

2. Fish contain glucosamine, hyaluronic acid and chondroitin. Glucosamine, hyaluronic acid are now used as health food by many persons in Japan. About 7 million people are drinking and eating these materials and enjoying health and long life. Author studied how glucosamine, hyaluronic acid chondroitin contribute for the hearth and anti-aging (ref 1-10)

3. Discovery of Klotho (Anti-aging gene), and Anti-aging reagent) Prof. Nabeshima Yoichi (graduate from Niigata University and Prof at cell engineering center at Osaka University and then Prof at Kyoto University and now head of top medical center.) found Klotho (anti-aging gene) from rat. (ref 11) The rat having this gene live 30 % longer. Klotho keeps homeostasis of Calcium and keeps health. (ref 11-13) Prof Nabeshima also found disaccharide which can bind Klotho and FGF27. The molecular

weight of disaccharide is 843.28 corresponding C₃₀H₁₀N₇O₁₉S. Thr-His-Gln-O-beta D-3sulfo-glucopyranoside. The author organic synthesized 5 disaccharides co-work with Klotho from structure known compounds. And found that the following compound can combine with Klotho. The author named this compound as anti-aging reagent. These reagents are combined compounds of glucuronic acid with glucosamine, glucuronic acid with galactosamine Sulfo-glucuronosyl-(1-3) glucoside Sulfoglucururonosyl-(1-3) galactoside.

Klotho make disaccharide from glucosamine, hyaluronic acid, chondroitin on site covering with Klotho and contributing for health and anti-aging. (ref 11-13)

1. Relation of glucosamine, hyaluronic acid, chondroitin, anti-aging reagent, Klotho, health, and anti-aging

2. Klotho has beta glucosidase activity. (ref 11) beta-glucosides have activity to cleave and bind glucuronosyl bond. Therefore, Klotho can make disaccharide from hyaluronic acid and chondroitin. Hyaluronic acid is poly(glucuronyl(1-3) N-acetyl glucoside and chondroitin is poly(glucosyl(1-3) N-acetyl galactoside).

3. Sulphonated hyaluronic acid monomer is anti-aging reagent

4. Hyaluronic acid, and chondroitin are precursors of anti-aging reagent. Hyaluronic acid gives anti-aging reagent glucuronyl (1-3) N-acetyl glucosamine

5. Klotho

6. Hyaluronic acid =====> Glucuronosyl (1-3) N-acetyl glucosamine

7. Chondroitin sulphonic acid give anti-aging reagent sulphoglucosyl(N- acetylglucosamine by Klotho

8. Klotho

9. Kondroitin sulphate $\longrightarrow$ sulpho-glucuronosyl (1-3) N-acetylgalactosamine

Depolymerization of chitin give N-acetyl glucosamine Klotho

Chitin $\longrightarrow$ N-acetyl glucosamine Depolymerization of chitosan give glucosamine Depolymerization of Chitosan give glucosamine

Klotho

Chitosan $\longrightarrow$ Glucosamine

Klotho condense glucuronic acid and glucosamine to afford disaccharide

Klotho Glucuronic acid + glucosamine $\longrightarrow$ disaccharide Relation of glucosamine derivative, food and anti-aging

When we look for the glucosamine derivatives from natural products

Hyaluronic acid, chondroitin, chondroitin sulphate, chitin, chitosan, keratin sulphate.

Hyaluronic acid was isolated from eyeball of cow in 1934 and named as hyaluronic acid from Greece word glass Hyaloid.

Hyaluronic acid is contained in the eye and indirectly eating of fish, whole body oohed of fisher eye of fishes, like sardine, sea bream, house mackerel, mackerel pike, ayu, gold eye sea bream, lorch, eel, flatfish, shrimp, ikanago, kibinago, okoje, mebaru, shirasu, tsumire (crashed mixture small fish) shark fin, tsukudani of small fish, cow, pig, chicken are recommended. Hyaluronic acid is found in the highest concentrations in the eyes and joints. For the supply of glucosamine glucosamine, shrimp and crab are good food. Vegetable anti-aging food. Sticky and nebaneba and draw thread vegetable food like soybean, yamaimo, satoimo, okura, moroheiya, mozuku, konbu, wakame, mekabu and negi contain mucin. Mucin is sugar protein which N-acetylgalactosamine combine by sugar linkage with serine or threonine.

Fish is the best food for anti-aging. Fish must be produced much with cheap price.

Then enough hyaluronic acid, chondroitin, glucosamine and Calcium are supplied, and Ca homeostasis is maintained and anti-aging, long life will be obtained

Anti-aging, anti-aging food

The author was born in 1930. April 17. 94.4-year-old Author is testing himself what is the best food to live long with high producing manuscripts (76 manuscripts (ref 1-10, 14-79 in 1985-2024) all single author).

How can I live long. I eat night food at midnight one banana, 20g Iriko (boiled and dried sardine), Hatosabure (Kamakura cooky) and Calpis. Then thinking and half sleeping and wake up and write manuscripts.

To get anti-aging

Fish must be supplied much with reasonable price by the mass production using N, P recycling

Climate must be comfortable by cooling with CO₂ assimilation Elimination of NO_x at developed countries induced global warming.

At around 1980, 7 Developed countries decided the elimination of NO_x by ammonia.

$4\text{NO} + 4\text{NH}_3 + \text{O}_2 \longrightarrow 4\text{N}_2 + 6\text{H}_2\text{O}$

This reaction eliminates nitrogen two times

This decision caused global warming by the decrease the nitrogen concentration of sea and land and inhibited CO₂ assimilation, decreased the absorption of CO₂, decreased the heat absorption by CO₂ assimilation. and started global warming (ref 72-78,) After 1980, DGP of Japan does not

increase. This reaction decreased plankton production, and decreased fish production. This reaction decreased plant growth. At nitrogen rich sea, CO₂ react with water and make carbohydrate very quickly and make plankton. Nitrogen rich land plant absorb CO₂ and water and make carbohydrate and cellulose quickly making tree.

CO₂ assimilation

$6\text{CO}_2 + 6\text{H}_2\text{O} \longrightarrow \text{Carbohydrate} + 6\text{O}_2$

Sun

Animals, Fish $\longleftarrow$ Plankton, Plant

Tree, Cellulose

Developed countries are eliminating N and P in wastewater. Developed countries are forced to burn garbage at incinerators equipped with ammonia addition.

These NO_x and N, P eliminations caused the lack of N, P. CO₂ assimilation decreased and CO₂ absorption decreased. Food production decreased. Heat absorption by CO₂ assimilation is lost. And global warming has started. Developed countries should stop NO_x elimination by ammonia and close wastewater clean center. Then CO₂ assimilation is activated, and global warming will stop, and much food will be produced. And people can live long at moderate temperature and can live long (ref 14-78)

News Paper Ehimeshinbun at Ehime Japan reported (ref 14). drainages purification block the production of Nori (Sea weed). Saijo district was a production district of Nori since Edo

300 years. But Nori produced at this district was brown and not black and had no commercial value. At Honjo district 10 km north of Matsuyama 90 person were producing Nori in 1978, but no one producing Nori in 1983. Forty years ago, at west side of sea shore of Matsuyama, large amount of sea weed were washed ashore, when strong wind blow, and many cucumber (Namako) were there in sea weed.

At west side, there is water purification center. Nitrogen compounds like urea were changed to nitrogen and clean water like drinking water is released to sea.

DGP of Japan stopped after 1980. United Nation say why this happened.

At 1980 Japan started NO_x elimination by ammonia. Japan built 2200 water clean center to eliminate N, P. At 2006, Japan built 2000 incinerated equipped with ammonia addition.

Author calculated heat balance of earth on earth, (ref 42, 74, 77)

Author indicated that global warming can be stopped by increasing CO₂ assimilation by stopping NO_x, NP elimination, by absorption of heat.

Heat and CO₂ generation 140 billion tons of fossil fuel is burned, and CO₂ 3.6x10¹⁰ t is produced. Moreover, 7.4x10¹⁵ kcal is produced.

When we consider the heat produced by animal realization, 7.4x10¹⁵ kcal is produced. When we consider the electricity generation capacity of the world is 16,868 tera watt h. Electricity generation by atomic energy is 2,086 tera watt h. Therefore, 7.4x10¹⁵x2,986/ 10,868=2.02x10¹⁵ kcal evolved by atomic energy. The heat evolved by animals also warms the earth. Humans eat 1,000 kcal of food daily and release 1,000 kcal of heat daily. Assuming the population of the world as 7.6 billion, humans release 1,000x365x76x10⁹=2.8x10¹⁶ kcal in one year. Animals other than human beings, cow, birds, whales, and seals are producing heat. We can estimate the same as a human being 2.8x10¹⁶ kcal. Therefore, (2.4+0.202+2.8x2.8)x10¹⁶=13.002x10¹⁶ kcal. We must absorb 13.002x10¹⁶ kcal by CO₂ assimilation.

Heat and CO₂ absorption

We must absorb 13.002×10^{16} kcal by CO₂ assimilation. One mole of CO₂ (44g) and water (18g) absorbs 114 kcal sun's heat to carbohydrate and 32 g oxygen. If 51 billion t CO₂ assimilation occurs $114 \times 5.1 \times 10^{10} / 44 = 13.16 \times 10^{16}$ kcal can be absorbed.

Heat production 13.002×10^{16} kcal is almost the same as heat absorption 13.16×10^{16} kcal. $36.0 + 12.5 = 48.5$ billion tones, CO₂ can be fixed. And we can absorb heat. 13.16×10^{16} kcal. Heat absorption by CO₂ assimilation is essential. 14.4 billion tone NO_x can fix $14.4 \times 25 = 360$ billion tone CO₂. CO₂ assimilation must be promoted by stopping NO_x elimination. By stopping of NO_x elimination, 14.4 billion tone NO_x can fix $14.4 \times 25 = 360$ billion tone CO₂. The amount of NP in drainage is around 0.5 billion tones. Using this 0.5 billion tone NP, people can fix $0.5 \times 25 = 12.5$ billion tone CO₂. By adding $360 + 12.5 = 372$ billion CO₂ can be fixed. And we can absorb 13.002×10^{16} kcal. Heat absorption by CO₂ assimilation is essential to control the earth's temperature to maintain the habitable and comfortable temperature for live long. (ref 73-78)

Heat generation 13.002×10^{16} kcal is almost the same as heat absorption 13.16×10^{16} kcal. $GWPR = \text{Heat production} / \text{heat absorption} = 13.002 \times 10^{16} \text{ kcal} / 13.16 \times 10^{16} \text{ kcal} = 1$ CO₂ assimilation must be promoted by absorption of NO_x elimination and by stopping waste water elimination. By stopping NO_x elimination $14.4 \times 25 = 360$ billion tone CO₂. The amount of N, P in Drainage is around 10 billion tones. By using this 10 billion tone N, P we can fix $10 \times 25 = 250$ billion tone CO₂. By adding $360 + 250 = 610$ billion tone CO₂ can be fixed. And we can absorb 15×10^{16} kcal. And earth can be cooled down and we can live long at comfortable temperatures.

Summary

Global warming can be stopped by the promotion of CO₂ assimilation by supply of nutrient N and P by following 3 items

Stop the elimination of NO_x by ammonia at power station, chemical station and iron station Stop the elimination of N, P at drainage, river

Throw away the rules to eliminate NO_x by ammonia, throw away the rule to eliminate N, P in drainage, river, throw away the rule to inhibit bon fire, burning of scrap wood

Anti-aging and long life will be accomplished by eating fish.

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