

TOWARD-ANTI-AGING AND LONG-LIFE SYNTHESIS OF ANTI-AGING REAGENTS SULFO DISACCHARIDES CO-WORKING WITH KLOTHO (ANTI-AGING GENE)

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Nabeshima found Klotho (anti-aging gene) and sulfo disaccharide, co-working with Klotho. Ozaki synthesized several disaccharides and found the structure and the mechanism how these compounds are working. The disaccharide has glucosamine structures and similar structure with hyaluronic acids and chondroitin. Klotho makes disaccharides (glucuronosyl (1-3) (N-acetyl glucosamine). From glucosamine and glucuronic acid and co-works on site with produced disaccharide and gives stable Ca homeostasis and consequent health, anti-aging and long life. Glucosamine, hyaluronic acid, chondroitin is now used as health food by many persons in Japan. The author will explain how hyaluronic acid, glucosamine, chondroitin is contributing to the health and anti-aging and long life. Japanese can live longest. Men 80.50 (third), women 86.63 (top). The reason of long life is Japanese eat many fish as protein source. Fish contain much hyaluronic acid, glucosamine and chondroitin, which precursor of anti-aging reagents. Fish production of Japan decreased remarkably to 10% since governments of developed country set up very strict law to eliminate NOx and NP in waste water. The author is proposing methods to control global warming by stopping NOx, NP in waste water elimination, we can increase the NP concentration of sea water. And we can increase plankton CO₂ fix, and we can protect global warming. And we can get many fish and we can enjoy long life.