

2nd International Conference on

Brain Disorders and Therapeutics

Chicago, USA October 26-28, 2016

Targeting therapy for homocysteic acid in blood is an Alzheimer's cognitive recovery

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At present we have no hope to recover the Alzheimer cognitive impairment. Just only an intervention which combines an exercise with DHA supplement establishes to recover the cognition. It is interested in DHA supplement combination. Many hypotheses are considered why these interventions can recover the cognitive decline in AD. The exercise indeed stimulates the blood circulation which induces the urinary excretion of blood unknown pathogens for the cognitive impairment and consequently some recovery can be observed. We hypothesize that the homocysteic acid in blood is the one of pathogens which are excreted into urine. Why is DHA supplement needed for the recovery process induced by an exercise? DHA is known to decrease homocysteine level and exercise contributes DHA effect. In other words, the combination of exercise and DHA induces the strong decrease of homocysteine in blood, which supports our hypothesis; the targeting homocysteic acid in blood is a possible method which can recover an Alzheimer cognitive impairment. Our hypothesis was proved by the fact that the memorial problem of 3xTg- AD model mice which were developed by amyloid pathology and the model for the familial AD were recovered by anti-HA antibody and not by amyloid treatment. Why did 3xTg-AD mice which increased amyloid pathology increase HA level? APP and/or presenilin increased calcium influx which could increase superoxide level and consequently increase HA level from homocysteine or methionine. Also our hypothesis is partially supported by the open clinical trial of some supplement which can decrease the homocysteic acid in blood for Alzheimer's patients and the result is very impressive.

Biography

Tohru Hasegawa has completed his PhD from Okayama University and worked at Saga Medical School as an Associate Professor and moved to Saga Woman University as Professor. He retired and got the Professor Emeritus. He found the Homocysteic acid as one of pathogens of AD.

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