

Oct. 19, 2020

Dr Tomonori Kimura, Director of Center for Rare Disease Research, received the Catalyst Award for Healthy Longevity from National Academy of Medicine.

Dr Tomonori Kimura, Director of Center for Rare Disease Research, received the Catalyst Award of Healthy Longevity Grand Challenge (HLGC). The Healthy Longevity Global Grand Challenge, founded by National Academy of Medicine, is a worldwide movement to improve physical, mental, and social well-being for people as they age.

【Summary of awards】

Title

Development of Diagnosis and Therapeutics for Age-related Diseases Through the Research of D-Amino Acids

Summary

Most amino acids have D- and L-enantiomers (chiral bodies). Although D-amino acids are present only in trace amounts unlike abundant L-amino acids, we have demonstrated that trace amounts of D-amino acids are indeed present in human body, and that levels of D-amino acids, but not those of L-amino acids, are useful for early diagnosis and prediction of prognosis in chronic kidney disease, a representative of age-related diseases. Research of D-amino acids are now spreading to cover diagnosis of age-, life style-related, and rare diseases. D-Amino acids as biomarkers will greatly contribute to healthy longevity through the prevention of age-related diseases. Based on the direct reflection of disease activity, studies to elucidate the physiological function of D-amino acid are underway with an aim to establish a novel anti-aging strategy.

【Link】

<https://healthylongevitychallenge.org/winners/development-of-diagnosis-and-therapeutics-for-age-related-diseases-through-the-research-of-d-amino-acids/>

【Contact】

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