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TITLE

High efficiency of drug screening for inhibiting alpha-glucosidase

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Intestinal α-glucosidase performs a physiologically vital function in the digestive process of dietary carbohydrates. Administration of an α-glucosidase inhibitor may retard the digestion and absorption of carbohydrates. Consequently, the rise in postprandial blood glucose could be suppressed. This study developed a novel technology, called "after flowing through immobilized receptor (AFTIR)", for targeting components in herbal medicines with α-glucosidase-suppressing capability. As a result, we reveal that the AFTIR system is a highly-efficient drug screening platform, capable of purifying and identifying active components with α-glucosidase-suppressing capability in herbal medicines.

Biography

Hueih-Min Chen has completed his PhD at the age of 31 from Department of Chemistry and Biochemistry, University of Texas at Arlington, USA. He worked as a post-doctor at Department of Biochemistry, Molecular Biology and Biophysics, University of Minnesota, USA in 1989 and at Department of Biology, National Medical Center of the City of Hope, USA in 1992. He was an assistant professor at Department of Biochemistry, Hong Kong University of Science and Technology between 1993 and 2001 and an associate professor/associate research fellow at Bioagricultural Technology Research Center, Academia Sinica in Taiwan between 2002- 2007. From 2008 to the present, he is a research fellow/PI in Nano Biomedical and MEMS Technology Division, National Nano Device Laboratories in Taiwan. Dr. Chen's research has been focusing on the drug screening and development by using an innovative method of biochip and protein immobilization.