MMSL
Military Medical
Science Letters
Since 1925

Mil. Med. Sci. Lett. (Voj. Zdrav. Listy) 2018, 87(supplementum 1)
ISSN 2571-113X (Online)

MEETING ABSTRACTS

DISCOVERY AND DEVELOPMENT OF NEUROPROTECTIVE AND DISEASE-MODIFYING ANTI-AD DRUG LEADS FROM THE CHINESE MEDICINE

Marvin Mak [1,2], Wei Cui [3] and Yifan Han [1,2]
Presenting author: **Yifan Han**

[1] State Key Laboratory of Chinese Medicine and Molecular Pharmacology (Incubation), The Hong Kong Polytechnic University Shenzhen Research Institute, Shenzhen, PR China
[2] Department of Applied Biology and Chemical Technology, Institute of Modern Chinese Medicine, The Hong Kong Polytechnic University, Hong Kong
[3] School of medicine, Ningbo University, Zhejiang, China

Alzheimer's disease (AD) represents a chronic and progressive brain disorder, and has now become the most common neurodegenerative disorders among the older population. Although the disease is now seen as major public health problems, the currently available therapeutics only offer temporary symptomatic relieves. Therefore, research and development of more effective and disease-modifying agents for the prevention and/or treatment of AD will have tremendous value from both scientific and economic standpoints.

Over the past few years, our series of studies have identified some highly promising anti-AD drug leads, including those derived from the Chinese medicines, with disease-modifying potential. In this presentation, the multi-neuroprotective effects and the underlying mechanisms of those promising candidates will be comprehensively illustrated and discussed.

Keywords: Neuroprotective effect; Dimers; Alzheimer's disease; Disease modifying; Multiple functions

Acknowledgement

This work was supported by the research grants from PolyU (G-YBGQ, G-YZ95), the Research Grant Council of Hong Kong (15101014), ITSP-Guangdong–Hong Kong Technology Cooperation Funding Scheme (GHP/012/16GD), and Shenzhen Basic Research Program (JCYJ20160331141459373).