Ting-Chao Chou, J Antivir Antiretrovir 2015, 7:4
http://dx.doi.org/10.4172/1948-5964.C1.023

OMICS International
conferenceseries.com

5th World Congress on
Virology
December 07-09, 2015 Atlanta, USA

Ting-Chao Chou
PD Science LLC, USA

Computerized simulation of anti-HIV drug synergy in vitro and in clinical trials using the Chou-Talalay combination index method

Drug combination is most widely used in the treatment of the most dreadful diseases such as AIDS and cancer. Quantitative determination of synergism is essential for the discovery and development of anti-HIV cocktails. Currently, the most widely used synergy assessment of all time is the combination index (CI) method, one article alone has been cited by 4,173 scientific papers in 620 different bio-medical journals. This presentation will focus on theoretical basis, experimental design, general equations, simulation algorithms and computerized simulation of synergism and antagonism at different dose levels and effect levels. Computer software, *Compusyn*, will be used. This software (original price $399/software) has been offered for free download upon registration, as a donation to the bio-medical communities and pharmaceutical industries beginning 8/1/2012. As of February 22, 2015, there have been 8,755 downloads by scientists from 79 countries or territories.

Biography

Ting-Chao Chou has received his PhD in Pharmacology from Yale University in 1970 and Postdoctoral Fellowship from Johns Hopkins University. He is the Member of Sloan-Kettering Cancer Center (MSKCC) and Professor of Pharmacology at Cornell University Graduate School of Medical Sciences. He was also Honorary Professor at Chinese Academy of Medical Sciences (1993) and Visiting Professor at five universities. He was the Director of Preclinical Pharmacology Core at MSKCC where he retired on June 1st, 2013. He has published 273 articles which have been cited 22,336 times with h-index: 65. He is Inventor/Co-Inventor of 38 United States Patents. He is the Founder of PD Science LLC., USA.

dtchou99@gmail.com

Notes: