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Toward better and efficient equilibrium dynamics of research, development, and regulation

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The triangular bi-directional dynamic equilibrium relationships among Research, Development and regulation set the reality framework of our nation and the world for scientific innovation, developmental status and legal security. Basic bio-science research is fundamental but is heavily influenced by NIH, foundations, peer review, and scientific trend. The eventual purpose in research is to improve knowledge and to produce something useful and beneficial to our life. These lead to the emergency of applied sciences such as those in pharmaceutical industry. To ensure the advancement and to constrain the behavioral selfishness and greed and to safeguard security, we have regulatory agencies such as FDA and USPTO to enforce law and order. The scientific community, from time to time, need to review and reform in the “reverse directions” in the triangular equilibrium dynamics, based on the sound and rigorous scientific basis. This is the main objective of my talk at 5th International Conference and Exhibition on Pharmaceutical Regulatory Affairs-2015. We hope to have an open forum to exchange ideas and to formulate the scientific consensus for our better tomorrow.

Biography

Ting-Chao Chou received MS in Pharmacology from National Taiwan University, and PhD from Yale University, and Postdoctoral Fellowship at Johns Hopkins University, School of Medicine. He joined the Memorial Sloan-Kettering Cancer Center (MSKCC) and became a Member in 1988, and was a Professor of Pharmacology at Cornell University, Graduate School of Medical Sciences during 1988-2000. He was the Director of Preclinical Pharmacology Core at MSKCC, where he retired on January 06, 2013. He is the Founder of PD Science, LLC., USA. He published 273 articles that have been cited by 16,421 papers in 620 bio-medical journals worldwide including Thomson Reuters Web of Science and Google Scholar Citations with 22,336 citations, h-index 65 and 38 U.S. Patents. He introduced the “Unified Theory of the Median-Effect Equation of the Mass-Action Law” in 1976 for single drug, and with Prof. Paul Talalay (JHU) in 1984, created the “Combination Index Theorem” for multiple drug dynamics. His dynamics equations and software have been utilized to advance Econo-Green Bio-Research.

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