

2nd International Conference on

PHARMACEUTICAL CHEMISTRY

October 02-04, 2017 Barcelona, Spain

Kinetic binding assays for the analysis of protein-ligand interactions

Franz Josef Meyer Almes

Darmstadt University of Applied Sciences, Germany

The importance of binding kinetics in terms of residence time and on-rate in drug discovery has been broadly accepted in the past few years. Furthermore, evidence has accumulated that the optimal binding mechanism of a drug to its target molecule is related to physiological efficacy as well as selectivity and thus drug safety. Homogeneous fluorescence-based binding assays have been shown to enable high throughput kinetics requiring only small amounts of protein and can be developed to elucidate even complex mechanisms of molecular recognition. A generalized approach is proposed that combines high quality kinetic and equilibrium data in an Integrated Global Fit analysis yielding the most probable binding mechanism.

Biography

Franz Josef Meyer Almes has completed his PhD from University of Goettingen. He has 10 years experience in biotech and pharma companies. He is the Professor of Physical Biochemistry and has published more than 40 papers in reputed journals and holds more than 10 patents and patent applications.

franz-josef.meyer-almes@h-da.de

Notes: