Application of in-silico approaches to cardiovascular disease

Propositions of This Dissertation

Application of *in-silico* approaches to cardiovascular disease

1. Application of multiple target protein conformations is better than a single target protein conformation in a virtual ligand screen campaign.

   This dissertation

2. FVIII binding to membranes is achieved through synergy between the FVIII C1 and C2 membrane binding domains.

   This dissertation

3. The NF-κB activating activity of IRAK-M is dependent on at least two different sites on the death domain.

   This dissertation

4. Residues W74 and R97 of IRAK-M are important for NF-κB and ERK activations.

   This dissertation

5. The IRAK-M and IRAK-4 tetramers may form a sandwich structure as IRAK-M:IRAK-4:IRAK-M complex.

   This dissertation

6. *In-silico* pharmacology paradigm is ongoing and presents a rich array of opportunities that will assist in expediting the drug discovery.

   S Ekins, British Journal of Pharmacology, 2007, 152, 21–37

7. The effective integration of data and knowledge from many disparate sources will be crucial to future drug discovery.

   D Searls, Nature reviews. Drug discovery, 2005, 4, 45-58

8. Assure but not assume.

   Gert Vriend

9. Nature is a labyrinth in which the very haste you move with will make you lose your way.

   Francis Bacon

10. Tolerance is power.