Propositions

Belonging to the thesis

Probing the ligand-receptor interface of TNF ligand family members RANKL and TRAIL

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1. Targeting TNF superfamily ligands or receptors with either agonistic or antagonistic compounds may provide novel approaches for therapy (this thesis).

2. The combination of Computational Protein Design and focused mutagenesis with screening is a powerful approach to modify protein-protein interactions (this thesis).

3. A single amino acid substitution can cause a great impact on protein-protein interactions (this thesis).

4. RANKL mutants with reduced binding to OPG show potential anti-fibrosis activity, which offers a promising strategy to explore new therapeutics against fibrosis (this thesis).

5. Gene therapy approaches using Adenovirus may result in a sustained level of recombinant proteins, thereby providing potential approaches for the treatments of diseases (this thesis).

6. Protein modification is not to change nature, but to discover the gifts offered by nature.

7. You cannot identify sadness through test tube.

8. We should look forward. This, too, shall pass.

9. 上善若水 (The highest goodness is like water. Water benefits all things and does not compete. Laozi)