

# Propositions

## Li Li

1. LncRNAs are crucial RNA regulators in many biology process. For example, LncRNA-OIS1 function as tumor suppressor to modulate the oncogene induced senescence in BJ cells. (this thesis)
2. DPP4 is the target gene of LncRNA-OIS1 regulating oncogene induced senescence in BJ cells. DPP4 is highly expressed in senescent BJ cells, thus can be used as a marker for senescence. DPP4 has the potential to apply for the cancer therapy. (this thesis)
3. Enhancers are critical DNA regulators in gene regulation and other biology process. For example, enhancer<sup>AP1-OIS1</sup> regulates the oncogene induced senescence in BJ cells. (this thesis)
4. FoxF1 is the target gene of enhancer<sup>AP1-OIS1</sup> modulating oncogene induced senescence in BJ cells. FoxF1 regulates senescence in a p53 independent manner.(this thesis)
5. CRISPR system is a very efficient technology to edit the human genome which is suitable to disrupt the transcription factors binding sites in enhancers for functional genetic screen. (this thesis)
6. Positive and negative controls are extremely useful in every experiment.
7. The strong psychological ability to withstand stress is very important for a good researcher as not all projects will be as smooth as expected.
8. The experimental record is very important, thus it is vital to record the details of the experiment in a good way.
9. Scientific research requires cooperation and communication, especially choosing the right cooperation can get twice the result with half the effort.
10. Thinking is the essence of scientific research, therefore scientific research is not simple manual labor.
11. Where there's a will, there's a way. Failure is the mother of success.