PROPOSITIONS

TO THE THESIS

FUNCTION OF MONOCYTES IN CHRONIC HCV INFECTION: ROLE FOR IL-10 AND INTERFERON

BY BISHENG LIU

- 1. CD14⁺CD16⁻ monocytes from patients chronically infected with HCV are impaired to sense bacterial derived pathogens, but have enhanced activity to virus derived pathogens. (This thesis)
- 2. In chronic HCV infection, IL-10 is likely to play an important role in modulating the function of monocytes. (This thesis)
- 3. The function of CD16⁺CD14⁻ monocytes is only minimally altered as a consequence of persistent HCV infection, indicating no role for CD16⁺CD14⁻ monocytes in HCV pathogenesis. (This thesis)
- 4. One of the consequences of priming of human APC with type I and III IFN is to promote the cells' sensitivity to IL-10. (This thesis)
- 5. Type I and III IFN have distinct immunoregulatory effects on human macrophages. (This thesis)
- 6. IFN-a is not always a friend during viral infections due to its indirect immunosuppressive capacities.
- 7. Modulation of IL-10 signaling can improve the outcome of standard IFNbased therapy for chronic HCV patients.
- 8. In the research on HCV, the conclusions drawn on the immune cells from peripheral blood don't always reflect what happens in the liver.
- 9. The deepest sin against the human mind is to believe things without evidence Thomas H. Huxley.
- 10. The way ahead is long and has no ending, yet high and low I will pursue the truth with my will unbending. Yuan Qu.
- Among any three people, I will find something to learn. Their good qualities are to be followed, and their shortcomings are to be avoided. – Confucius.