PROPOSITIONS

TO THE THESIS

"THE ROLE OF SOCS3 SIGNALING IN ULCERATIVE COLITIS AND ULCERATIVE COLITIS RELATED CARCINOGENESIS"

BY YI LI

- 1. The high expression of SOCS3 in inactive UC compared with non-disease controls suggests the involvement of this protein in UC development. (This thesis)
- 2. The loss of SOCS3 expression in UC-CRC may be a critical factor in the progression towards CRC development. (This thesis)
- 3. When IL-6 signaling results in DNMT1 expression, SOCS3 induction and consequently inhibition of IL-6 signaling through STAT3 are lost. Thus DNMT1 emerges as a rational target in preventive strategies aimed at counteracting UC-CRC. (This thesis)
- 4. STAT3-independent SOCS3 induction in inactive UC involves multiple pro-inflammatory signaling pathways, which is arguing the pathway-specific and broad-spectrum antiinflammatory drugs for preventing UC relapse. (This thesis)
- 5. The subgroup of patients with high SOCS3 expression may have more vulnerable intestinal epithelial cells during remission thus is involved in the induction of relapse. (This thesis)
- 6. IL-6 signaling pathway would be an interesting therapeutic target in active UC and UC-CRC.
- 7. The restoration of SOCS3 expression suppresses IL-6/p-STAT3 signaling induced proliferation and survival of epithelial cells in CRC.
- 8. SOCS3 seems to impair IEC homeostasis in UC but behave friendly to UC-CRC.
- 9. Don't part with your illusions. When they are gone you may still exist, but you have ceased to live. (Mark Twain)
- 10. Happiness lies not in the mere possession of money; it lies in the joy of achievement, in the thrill of creative effort. (Franklin Roosevelt)
- 11. At twenty years of age, the will reigns; at thirty, the wit; and at forty, the judgment. (Benjamin Franklin)