

## CHAPTER VII

### FUTURE RESEARCH

In the present study, it was evident that the effect of THF on motor impairment may mediate through GABA<sub>B</sub>-mediated mechanisms. Future research with the following objectives is recommended.

1. To study the biotransformation of THF in comparison to GBL. It would be worth to clarify whether THF is one of metabolic precursors of GHB.
2. To further characterize the pharmacology and toxicology of THF and ethanol simultaneous ingestion. Ethanol is often used with GHB abuse.
3. To better understand the mechanism of THF at the neurochemistry levels that involved in producing behavioral effects.
4. To observe effects of other antagonists in order to better characterize the mechanism of THF effects.
5. To characterize the pharmacology and toxicology of chronic treatment with THF and GBL.
6. To investigate other methods that might be more appropriate for the behavioral study such as using a computer program for ethological analysis.

These studies may provide additional and important clues to help better understand the mechanism underlying the effects of THF.