

CHAPTER V

CONCLUSIONS

1. High genetic diversity levels of *H. asinina*, *H. ovina* and *H. varia* was observed based on RAPD analysis.
2. Clear genetic differentiation was observed between *H. ovina* originating from the Gulf of Thailand and the Andaman Sea.
3. Within *H. asinina*, partial genetic differentiation between the Gulf of Thailand, the Andaman Sea and the Philippines samples were found from RAPD analysis with primers UBC101, OPB11, UBC195, UBC197 and UBC271).
4. Phylogenetically clear separation between investigated abalone species (using two primers) and geographic samples of *H. asinina* (using five primers) were observed.
5. Six species-specific markers were found in *H. asinina*. Population-specific markers were found in the Philippines (UBC101, 380 bp) and Talibong (UBC271, 880 bp) samples. No species-specific RAPD markers were observed in *H. ovina* and *H. varia*.