

CHAPTER VI

CONCLUSIONS

1. The result of an individual *A. cerana* from twenty total DNA samples of the same colony was given the same restriction pattern when completely digested with *Bgl*III, *Cla*I, *Eco*RI, *Hae*III and *Nde*I.
2. The restriction patterns among *A. florea*, *A. mellifera* and *A. cerana* were shown in distinct patterns when completely digested with *Eco*RI.
3. The results of restriction patterns of *A. cerana* from the Northern showed only one groups of B1, C1 and N1 when DNA samples digested with *Bgl*III, *Cla*I and *Nde*I, respectively. In the same samples, the restriction patterns were showed three groups; E1, E2 and E3 when using *Eco*RI and two groups; H1 and H2 when using *Hae*III.
4. The results of restriction patterns of *A. cerana* from the North-Eastern could be divided into two groups; H1 and H2 when DNA samples digested with *Hae*III but another enzymes; could not be divided into subgroups.
5. The results of restriction patterns of *A. cerana* from the Central part could not be divided into subgroups when DNA samples digested with *Bgl*III, *Cla*I, *Eco*RI, *Hae*III and *Nde*I.

6. The results of restriction patterns of *A. cerana* from the Southern could be divided into two groups when DNA samples digested with *Cla*I (C1, C2), *Eco*RI (E1, E4), *Hae*III (H1, H2) and *Nde*I (N1, N2). While using *Bgl*III, DNA samples could not be divided into subgroups.
7. The restriction patterns of *A. cerana* from the Samui Island could be divided into three groups when DNA samples digested with *Eco*RI (E1, E2 and E5). In the same samples could be divided into two groups when using *Bgl*III (B1, B2), *Hae*III (H1, H3) and *Nde*I (N1, N2), whereas *Cla*I could not be divided DNA samples into subgroups.
8. RFLP could be classify *A. cerana* populations into nine groups. Three groups of them were the population on Samui Island (VII, VIII and IX). The other, six groups were the mainland bees. *A. cerana* from the Northern could be divided into five groups; I, II, III, IV and V. The Central part could be divided into three groups; I, II and VI whereas the North-Eastern and the Southern, *A. cerana* were found only group I.

ศูนย์วิทยุทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย