

STAB2042
Molecular Approaches in Conservation

Practical 2

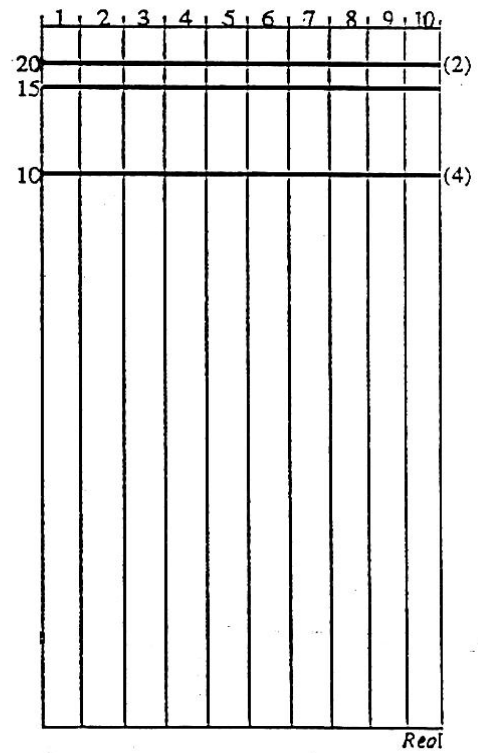
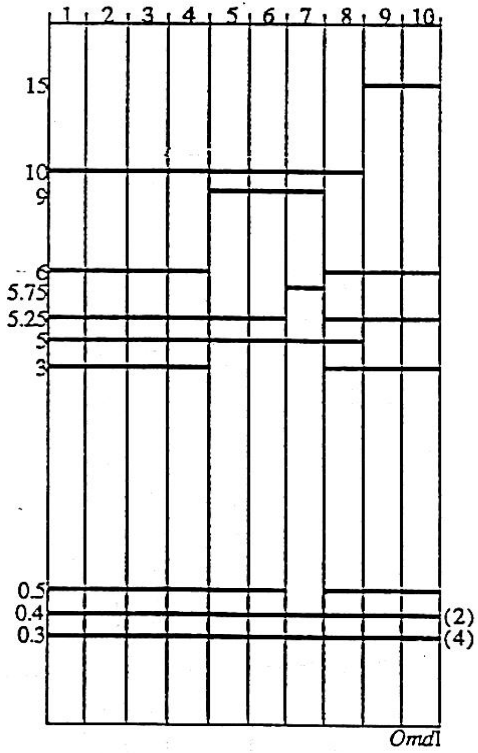
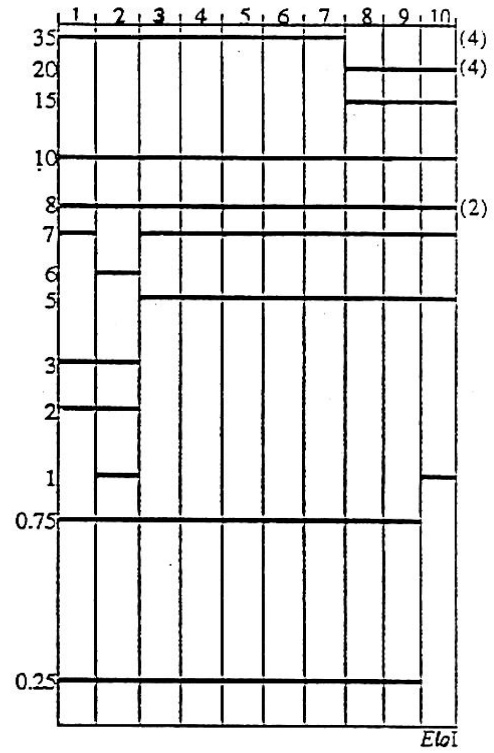
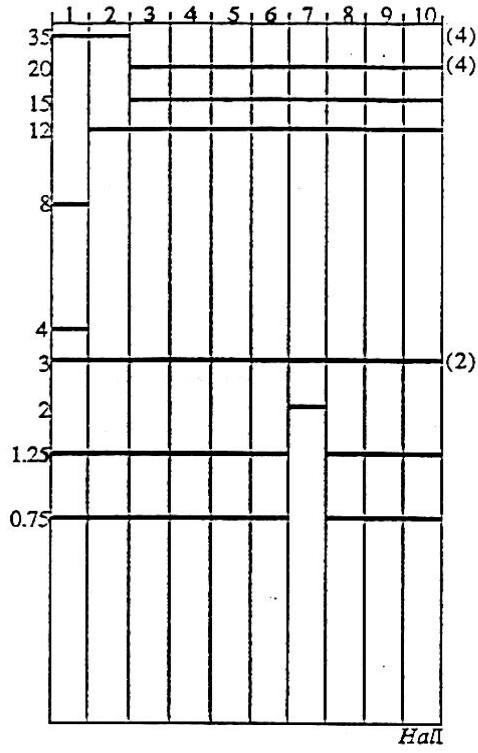
RFLP Analysis

The genetic variation of ten dipterocarp species was studied using four restriction enzymes i.e. *Hall*, *EloI*, *OmdI* and *ReoI*, and two cpDNA probes i.e. *rbcL* (probe 1) and *rpoC* (probe 2). Species 1 is the outgroup taxon. The RFLP banding patterns produced by each combination of enzyme and probe are shown in Figures 1-8.

Questions:

1. For each combination of enzyme and probe, give types of mutations occurred in species 2-10 in relation to species 1.
2. Determine genetic distance among the species.
3. Describe the cpDNA phylogeny for the ten dipterocarp species.

Probe 1



Probe 2

