

ABSTRACT

Humans evolved from a primate that was also ancestral to apes. Comparison banding pattern by Yunis, et al. show the similarities between human and apes (chimpanzee, gorilla and orang utan) chromosomes.

This observational study was aimed to verify the result studied by Yunis, et al.. The banding pattern and chromosomal structure of human, chimpanzee and orang utan from routine chromosomal analysis are compared

The results showed that there were similarities between human, chimpanzee and orang utan with differences in the centromeric position, number and position of nucleolar organizer, and banding pattern. The fusion of 2 acrosentric chromosomes of chimpanzee and orang utan accounts for the reduction of the 24 pairs of chromosomes of chimpanzee and orang utan to 23 in human.

The results showed that this study is consistent with previous study by Yunis, et al.

Key words : chromosome, chimpanzee, and orang utan