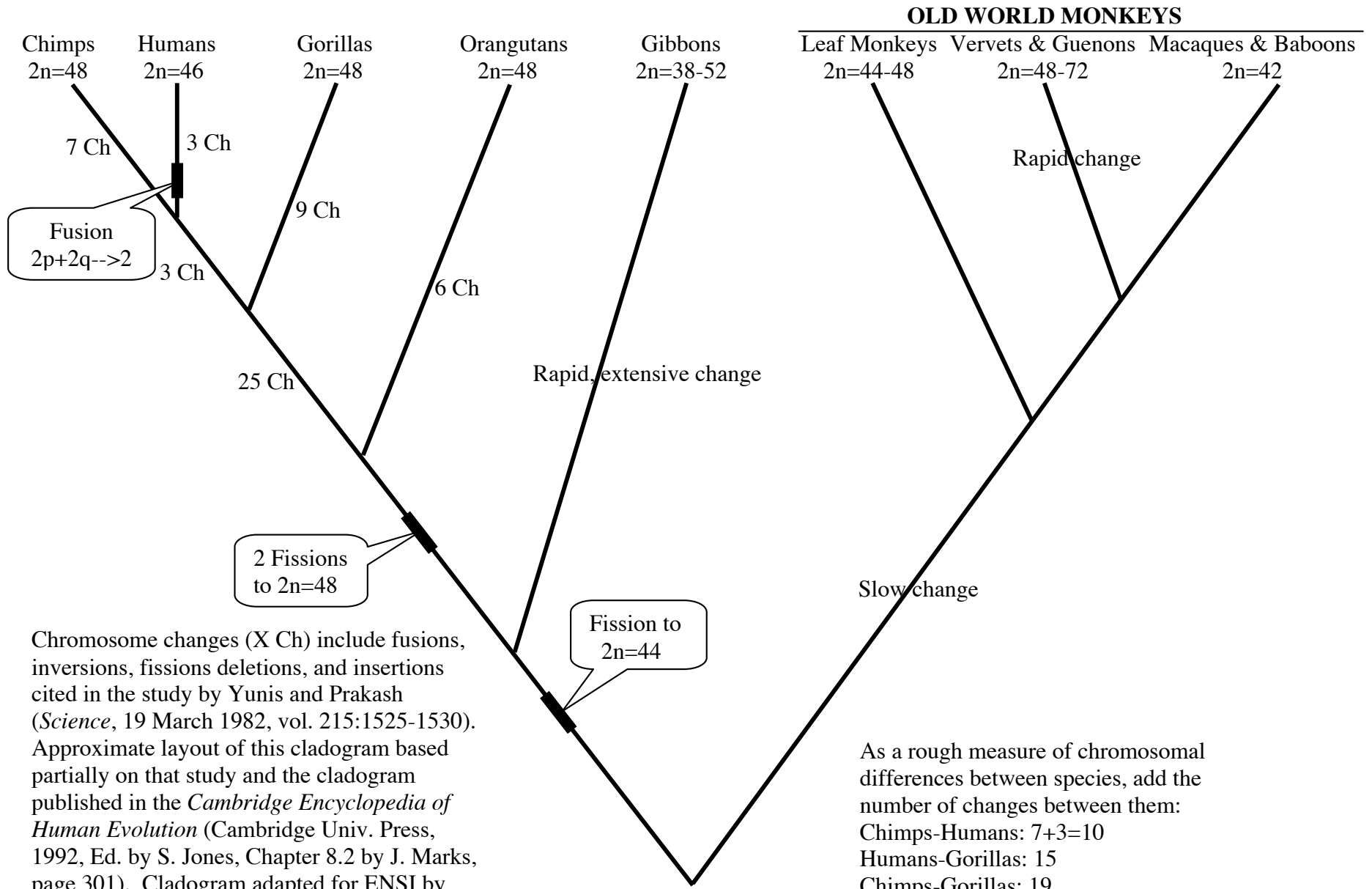


# PRIMATE CLADOGRAM based on CHROMOSOME BANDING PATTERNS



Chromosome changes (X Ch) include fusions, inversions, fissions deletions, and insertions cited in the study by Yunis and Prakash (*Science*, 19 March 1982, vol. 215:1525-1530). Approximate layout of this cladogram based partially on that study and the cladogram published in the *Cambridge Encyclopedia of Human Evolution* (Cambridge Univ. Press, 1992, Ed. by S. Jones, Chapter 8.2 by J. Marks, page 301). Cladogram adapted for ENSI by Larry Flammer, 2007.

As a rough measure of chromosomal differences between species, add the number of changes between them:  
 Chimps-Humans: 7+3=10  
 Humans-Gorillas: 15  
 Chimps-Gorillas: 19