cloud (7 , genomes<=2)
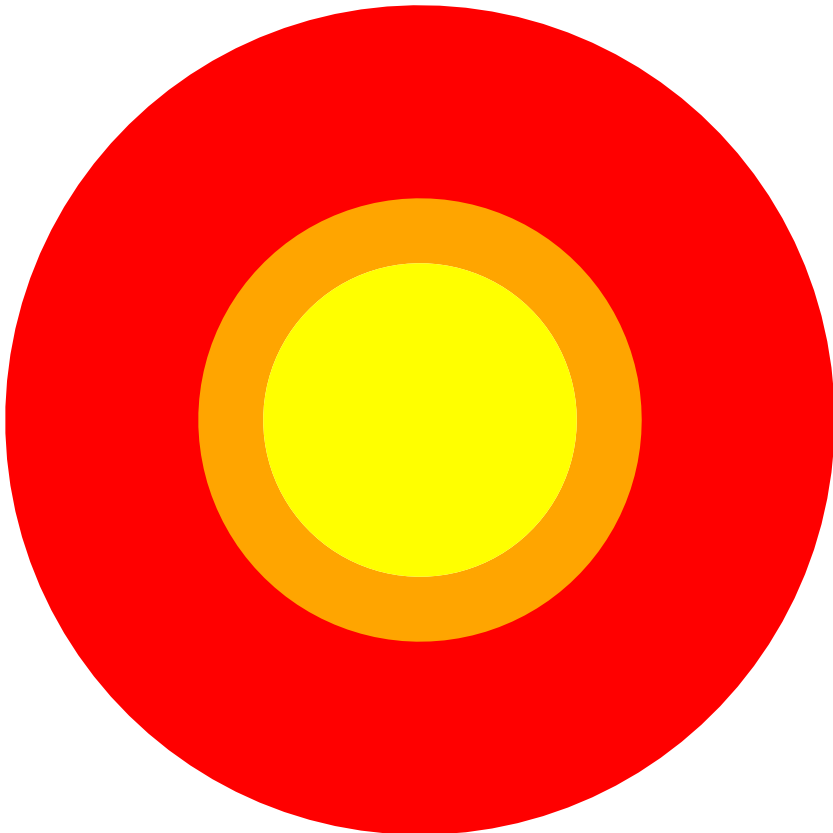shell (2)
soft core (1 , genomes>=4)
core (1 , genomes=5)

total gene clusters = 10   taxa = 5