

BINF 8940 - Homework 2

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Genome Organization

Download the file **CryptoDB-50_CparvumIOWA-ATCC.gff** to your working directory

1. How many genes do you have in the gff file?
 - 3952
2. How many CDS?
 - 5265
3. How many exons?
 - 5326
4. How many ncRNA (ribosomal RNAs, tRNAs, etc.)?
 - 925
5. How many of each?
 - tRNA: 45
 - rRNA: 11
 - five_prime_UTR: 497
 - three_prime_UTR: 370
 - snRNA: 2
6. How many genes by Chromosome?
 - CpIOWA-ATCC_Ch1: 415
 - CpIOWA-ATCC_Ch2: 448
 - CpIOWA-ATCC_Ch3: 452
 - CpIOWA-ATCC_Ch4: 469
 - CpIOWA-ATCC_Ch5: 460
 - CpIOWA-ATCC_Ch6: 561
 - CpIOWA-ATCC_Ch7: 576
 - CpIOWA-ATCC_Ch8: 571
7. How many genes have a product name?
 - 5154
8. How many are Uncharacterized or Hypothetical?
 - 2550
9. What is the ID/Name of the last gene in CpIOWA-ATCC_Ch1?
 - ID=CPATCC_0039550