**Appendices**

**All the dataset in the sheet were include:**

1. **Dataset of chapter three (A)** include**:** summary of the OrthoMCL clustering of *T. gondii* and *N. caninum.*
2. **Dataset of chapter four (B)** include three *N. caninum* strains; B1(*NC-Bahia*), B2(*NC-1*) and B3(*NC-Liverpool)* that have a high impacts of unique SNPs per strain.
3. **Dataset of chapter five (C)** include six *T. gondii* strains; C1(*T. GT1*), C2(*T. MAS*), C3 (*T. P89*), C4(*T. CAST*), C5(*T. VEG*) and C6 (*T. COUG*) that have a high impacts of unique SNPs per strain.