* **Supplementary table 1**

Metrics of the genomic data used for the study
* **Supplementary table 2**

Annotation of the divergent genes and genes under selection based on the Megablast match (blastn).

**Tab#1: Acauda\_Apompejana\_HER\_genes**

Annotation of the genes associated with a high evolutionary rate (dS > 0.5) between *A. caudata* and *A. pompejana*

**Tab#2: AcaudApomp\_PosSelectin\_genes**

Annotation of the genes associated with a high dN/dS (>1) between *A. caudata* and *A. pompejana*

**Tab#3: AcaudApomp\_PosSelectin\_functions**

List of molecular functions/biological processes/ligands impacted by genes associated with high dN/dS between *A. caudata* and *A. pompejana*

**Tab#4: ApN/ApS\_HER\_genes**

Annotation of the genes associated with a high evolutionary rate (dS > 0.5) between *A. pompejana* North/South

**Tab#5: ApN/ApS\_PosSelectin\_genes**

Annotation of the genes associated with a high dN/dS (>1) between *A. pompejana* North/South

**Tab#6: ApN/ApS\_PosSelectin\_functions**

List of molecular functions/biological processes/ligands impacted by genes associated with high dN/dS between *A. pompejana* North/South