# Evolution of the TRH neuropeptide pathway and its growth regulation function in echinoderms - Non book component – list of files

**Table\_TRH\_pathway**: Word file with the table of genes collected from the reconstruction of the TRH pathway in vertebrates. For each gene it includes the name and a brief summary of the function in vertebrates, the NCBI geneID and protein sequence ID and the species from which they come from. It also containg the putative homologs found in the *S. purpuratus* genome with names, synonyms and SPUs.

**annot\_trh\_pathway\_SPU**: Excel file containing the complete list of genes used to reconstruct the TRH pathway. The file contains: the WHLs, SPUs, NCBI annotation, Name (according to EchinoBase), additional SPUs, GO and PFAM annotations.

**spRNAseq-pltranscriptome**: it contains the alignment between the *Sp-Trh* (SPU\_008352.3a) and the Pl-Trh (TRINITY\_DN699574\_c1\_g1\_i2).

**Table\_TRH\_pathway**: it contains the alignment between *S. purpuratus* and the *P. lividus* TRH precursor peptide.

**phenotypic plasticity data analysis**: folder containing the supplementary material relative to the phenotypic plasticity experiments and the statistics.

* Pl 2Nov2020: RDATA file, RMD file (Markdown file), table containing raw measures in CSV and Excel formats, Word document containing the whole analysis annotated, JPG file illustrating the organization of the 6-well plate.
* Pl Oct2020: RDATA file, RMD file, Word document containing the whole analysys annotated table containing raw measures in txt and Excel formats, Word document containing the whole analysis annotated.
* Sp April2021: RDATA file, RMD files, Word document containing the whole analysys annotated table containing raw measures in txt and Excel formats, Word documents containing the whole analysis annotated, Bib TrX file containing the reference used in the annotated analysis. The experiment was analysed in two separate steps: Sp\_microinj\_april2021 and Sp\_THinh\_2021, therefore the two RDM anf word files are provided.
* Sp Dec 2020: RDATA file, RMD file (Markdown file), table containing raw measures in txt format, Word document containing the whole analysis annotated.