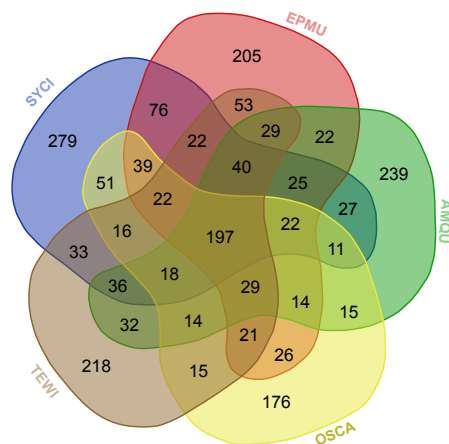
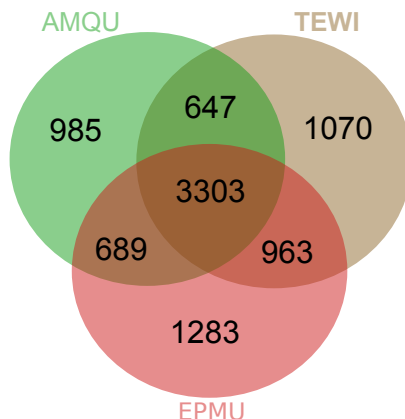


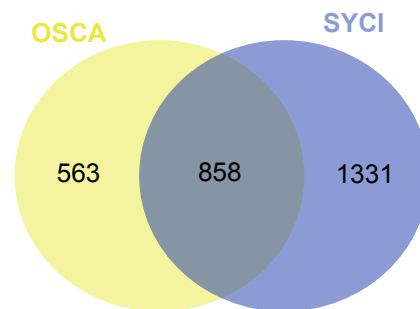
A. Porifera unique clusters



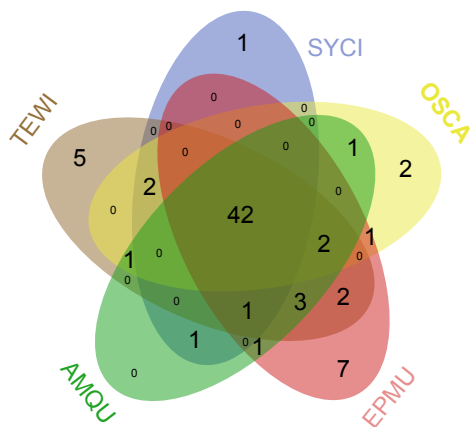
B. Demospongiae unique clusters



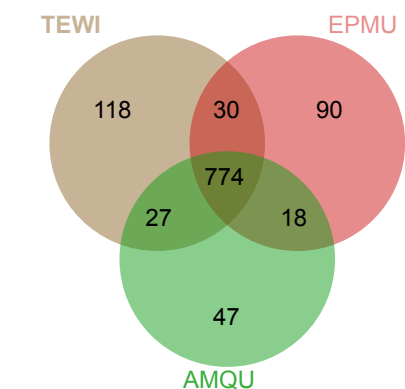
C. Not Demospongiae unique clusters



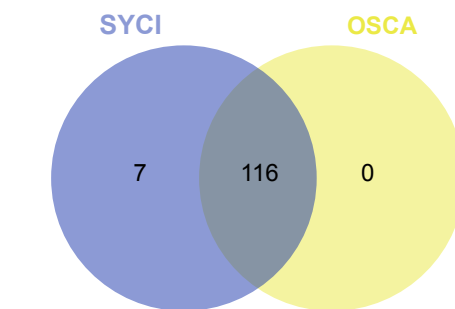
D. Porifera unique orthologous clusters



E. Demospongiae unique orthologous clusters



F. Not Demospongiae unique orthologous clusters



All Porifera

metabolism multicellular anabolic single-organism oxoacid leguminous ribose subcellular acid-templated stress-activated macromolecular framework ribonucleoside transform aged individuals compound repressing non-apoptotic culminates
plastids relays individual repetition metabolic cytoskeleton deteriorating cease biopolymer young hematopoiesis markedly non-encoded mannosylation kinase/nf-kappa vacuoles pluripotency ribosomes chemical gradually metallic
surroundings phosphorus-containing noncanonical level encapsulating p52-dependent anhydrides organismal simply localizer esterified protein-coding hlk/nf-kappa halting substances monosaccharides carbohydrates nf-kb macromolecule nucleobase-
containing nucleic dominated macroscopic orthophosphate sapk bounded cellular macromolecules monomeric oligophosphate

Demospongiae

metabolism organization results formation binding interacting up enzyme state over expression selectively secretion production compound homeostasis specific stimulus individual reactions cell mature lipid structure metabolic organic response frequency part
carried time group modulates rate positive constituent activity chemical change plasma cells disassembly activation outcome organism molecular molecules level stimulation regulation increases progression groups hydrolysis substances result extent extracellular organelle
intracellular movement pathways process proteins cellular membrane development internal maintenance

Not Demospongiae

metabolism multicellular vesicles single-organism neurites over d-subunit acid-templated macromolecular transform inorganic aged individuals compound a(in specific hatching individual cell repetition structure metabolic cytoskeleton organic biopolymer carried time non-
encoded non-selective arf app rate substance organonitrogen chemical small cells organs surroundings myelinating cell organism structures phosphorus-containing charge metalloenzyme molecules level b(in neurite encapsulating anhydrides regulation progression incident simply hydrolysis
parents valency substances extranuclear sight macromolecule organelle a(out process cellular macromolecules monomeric internal incomplete

Ephydatia muelleri

metabolism organization results up-regulation formation binding interacting up enzyme state over expression selectively secretion production compound stops specific prevents stimulus reactions cell mature structure metabolic response frequency part time
group associated modulates form arrangement rate positive constituent upregulation activity transport chemical change cells activation outcome dna rna organism molecules reduces stimulation regulation increases progression activates non-covalently
assembly result extent molecule complex negative movement pathways process proteins between cellular membrane development