

**Table ST6.** Orthology analyses (summary statistics) of the *L. stagnalis* predicted proteome, as performed at two distinct levels, metazoans and gastropods.

Parameter	Metazoa-level Orthology analysis	Gastropoda-level Orthology analysis
Number of species	20	14
Number of genes	600240	404265
Number of genes in orthogroups	500283	364557
Number of unassigned genes	99957	39708
Percentage of genes in orthogroups	83.3	90.2
Percentage of unassigned genes	16.7	9.8
Number of orthogroups	17669	29428
Number of species-specific orthogroups*	1947	9158
Number of genes in species-specific orthogroups	12160	41817
Percentage of genes in species-specific orthogroups	2	10.3
Mean orthogroup size	28.3	12.4
Median orthogroup size	14	7
G50 (assigned genes)	53	19
G50 (all genes)	40	18
O50 (assigned genes)	1977	5033
O50 (all genes)	3067	6101
Number of orthogroups with all species present	2312	3275
Number of single-copy orthogroups	2	154

\*Orthogroups that consist entirely of genes from one species.

G50: The number of genes in the orthogroup such that 50% of genes are in orthogroups of that size or larger.

O50: The smallest number of orthogroups such that 50% of genes are in orthogroups of that size or larger.

Single-copy orthogroup: An orthogroup with exactly one gene (and no more) from each species.

Unassigned gene: A gene that has not been put into an orthogroup with any other genes.