

Figure S1

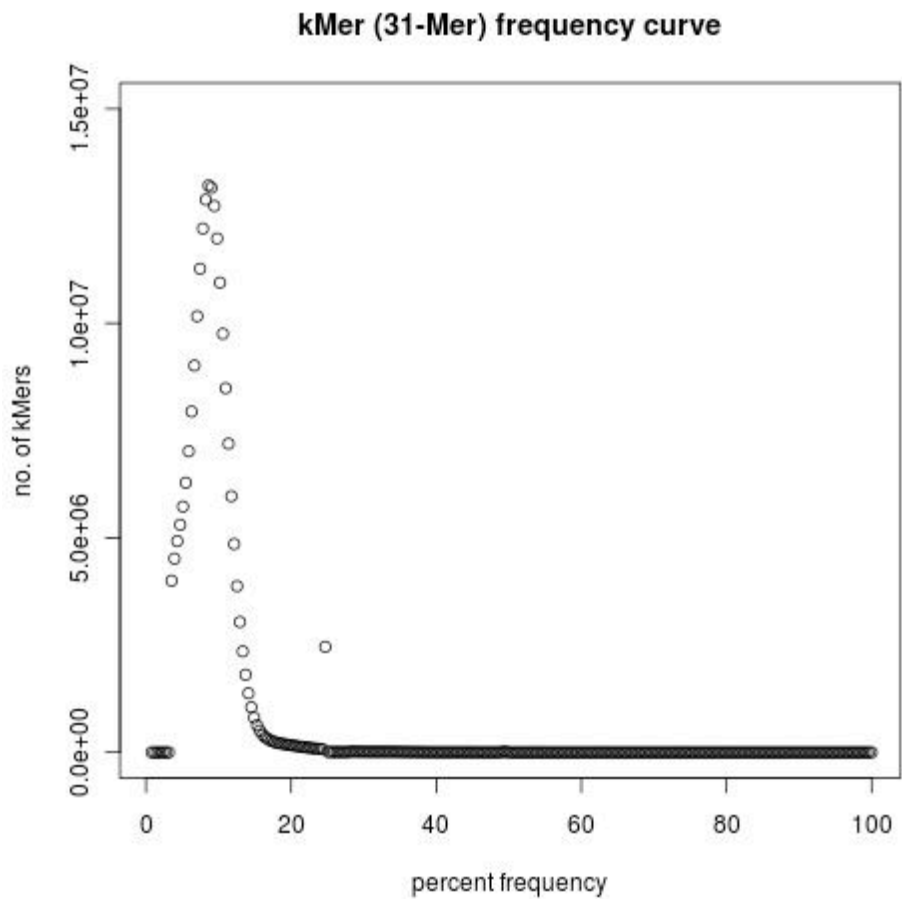


Figure S2

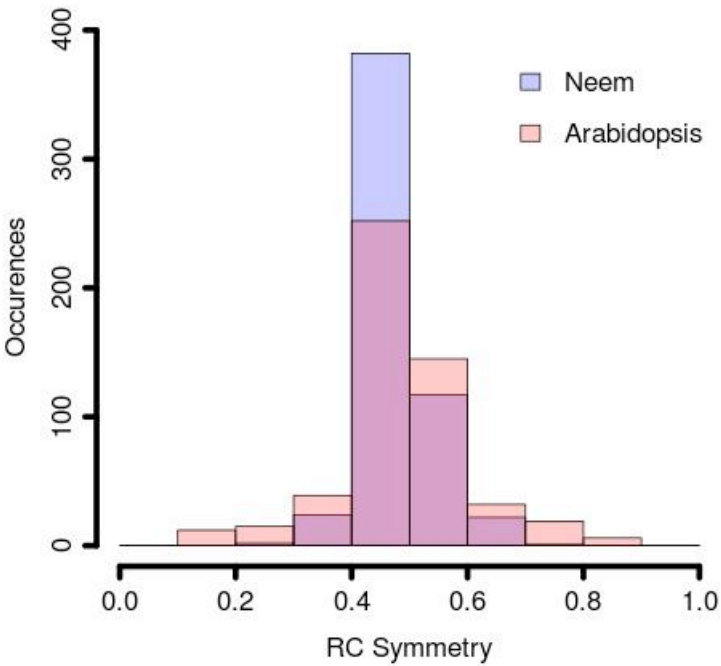
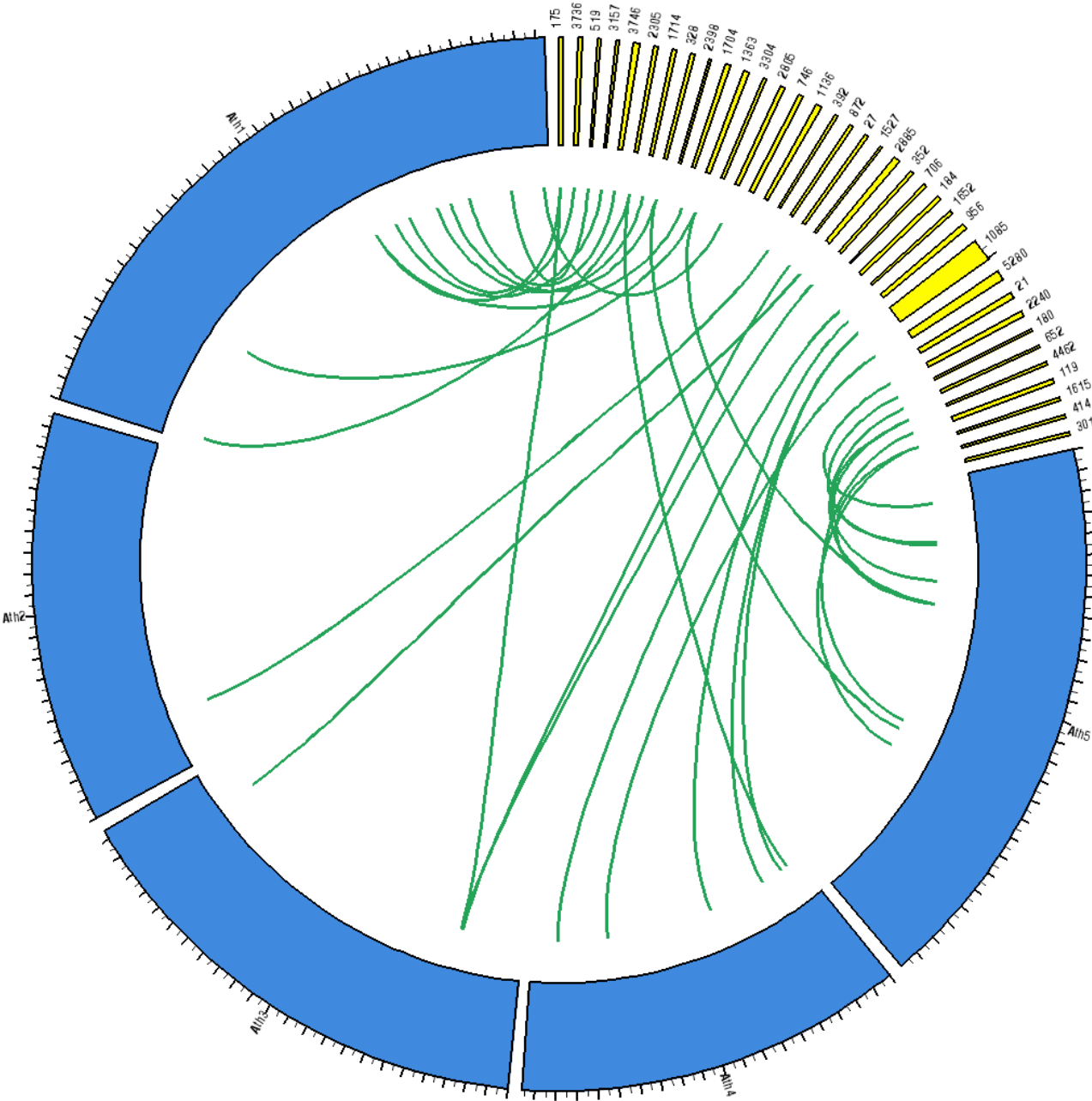
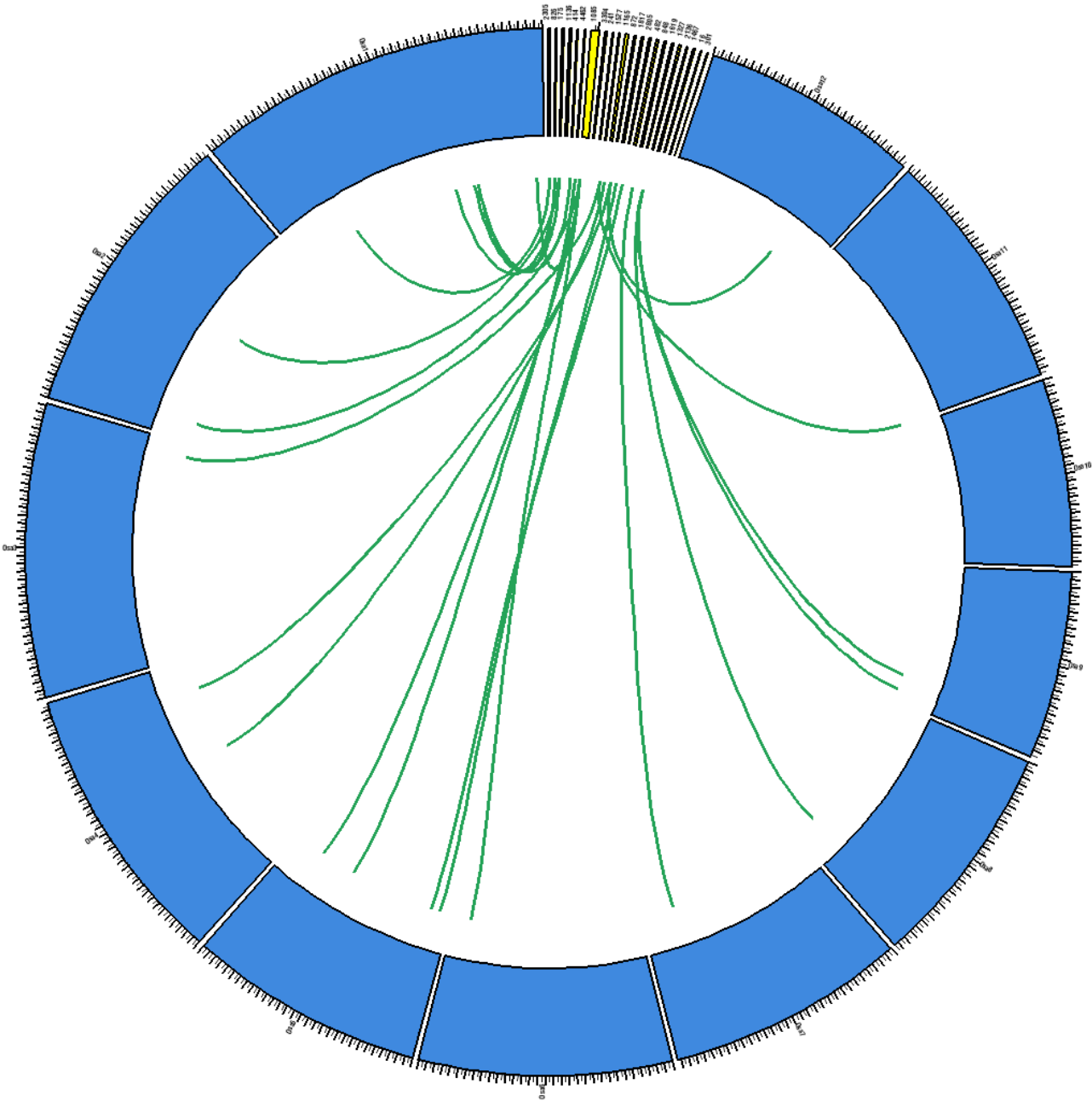


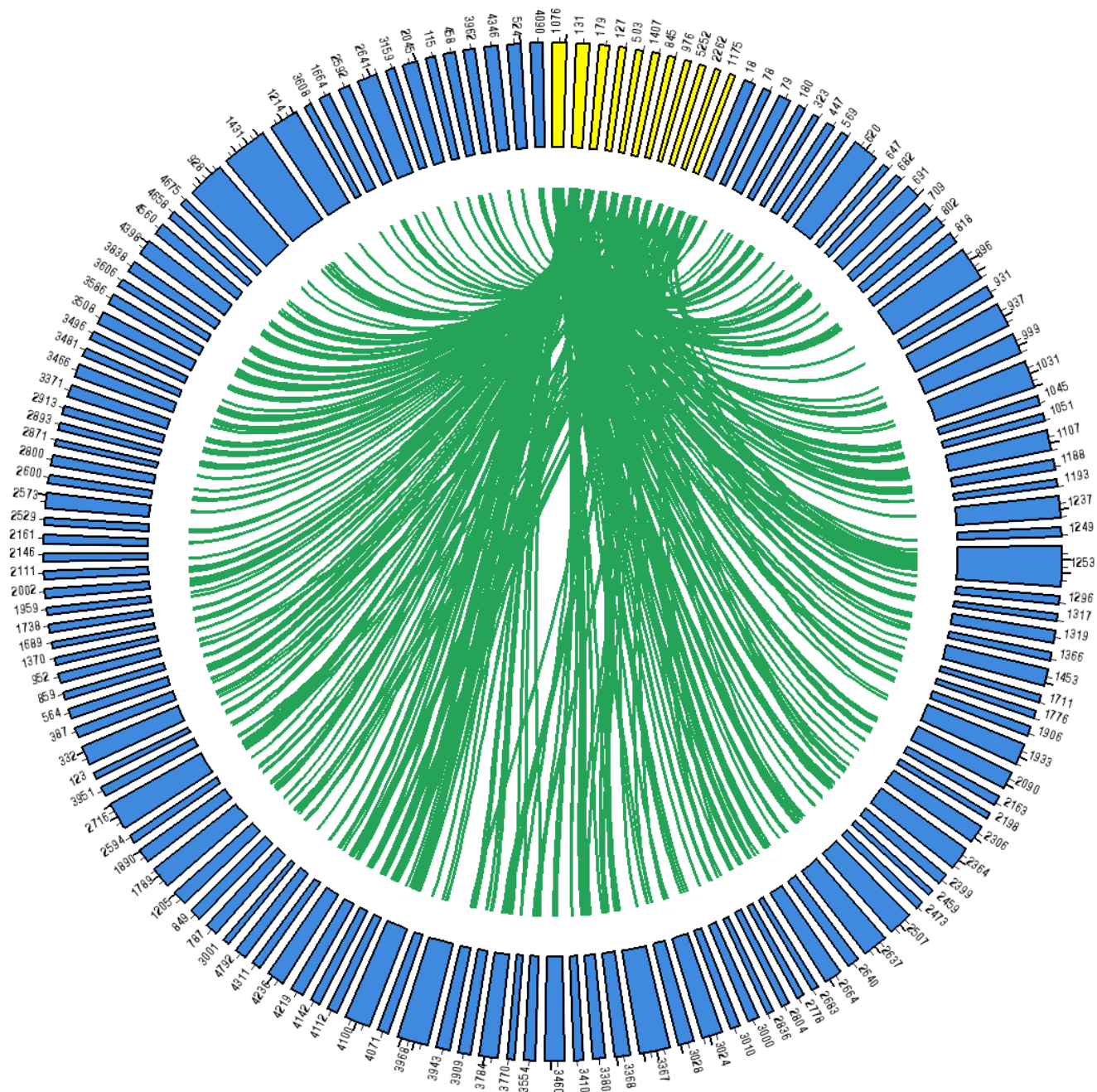
Figure S3  
a



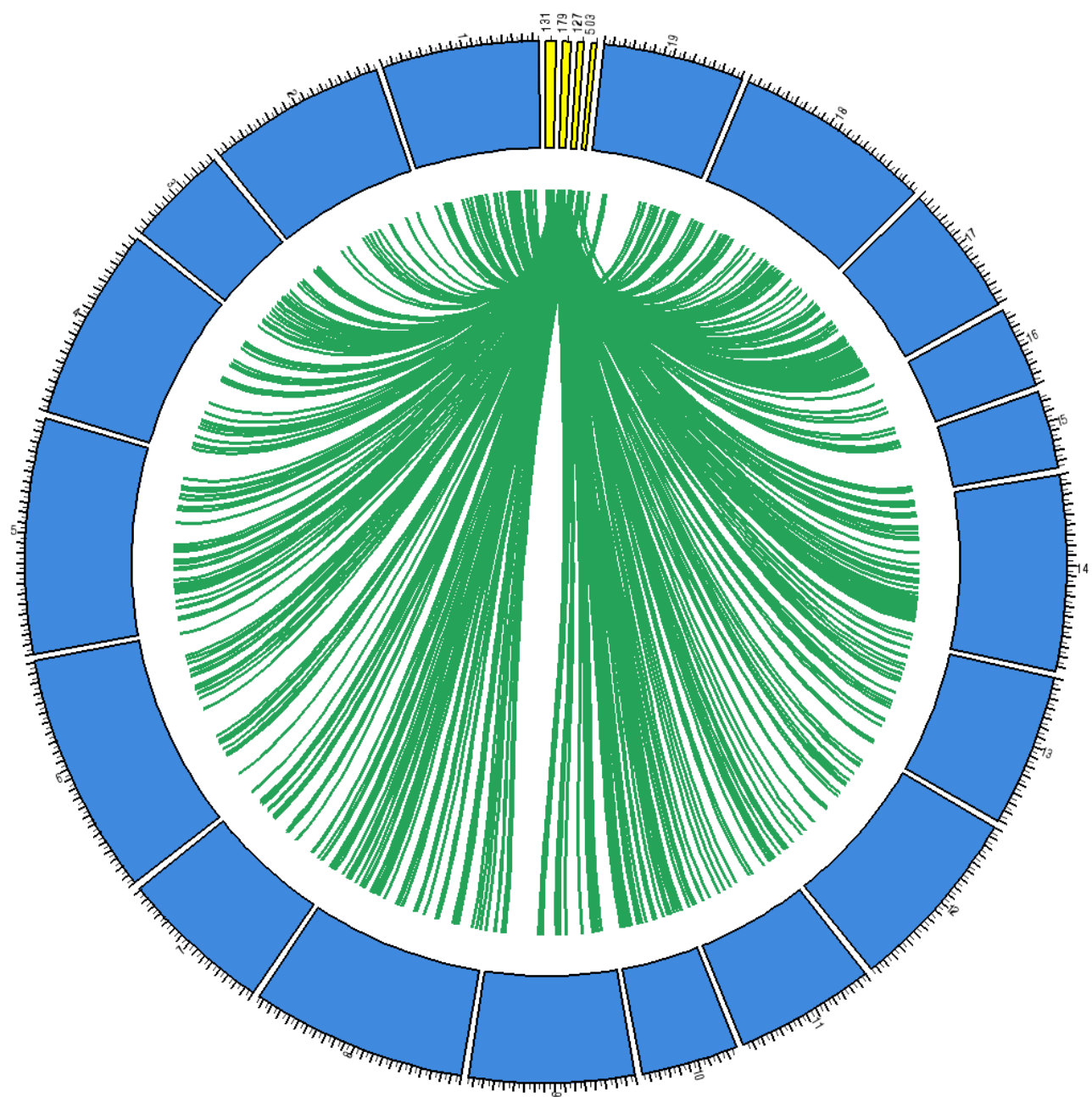
b



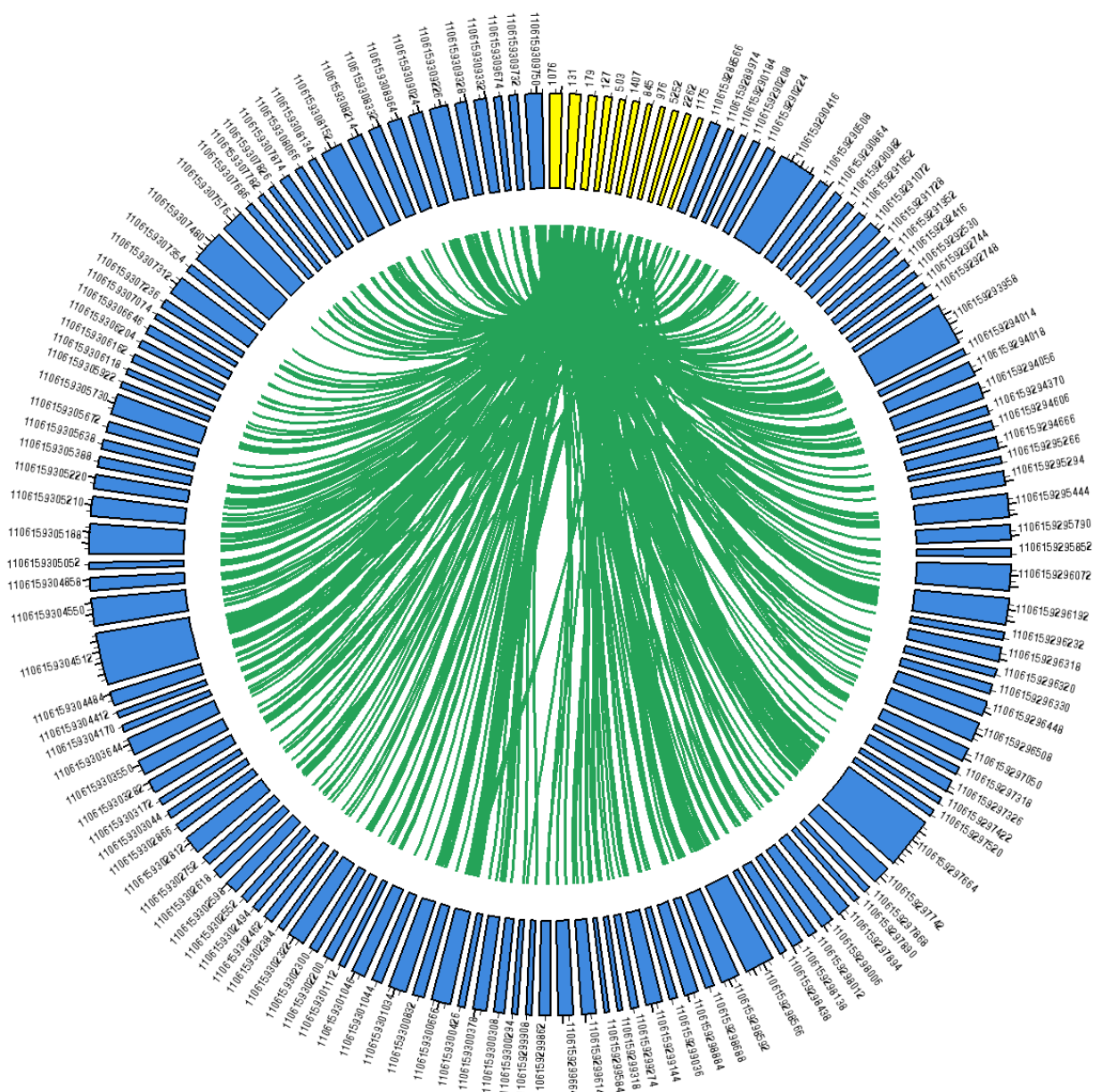
C



d



**e**





f

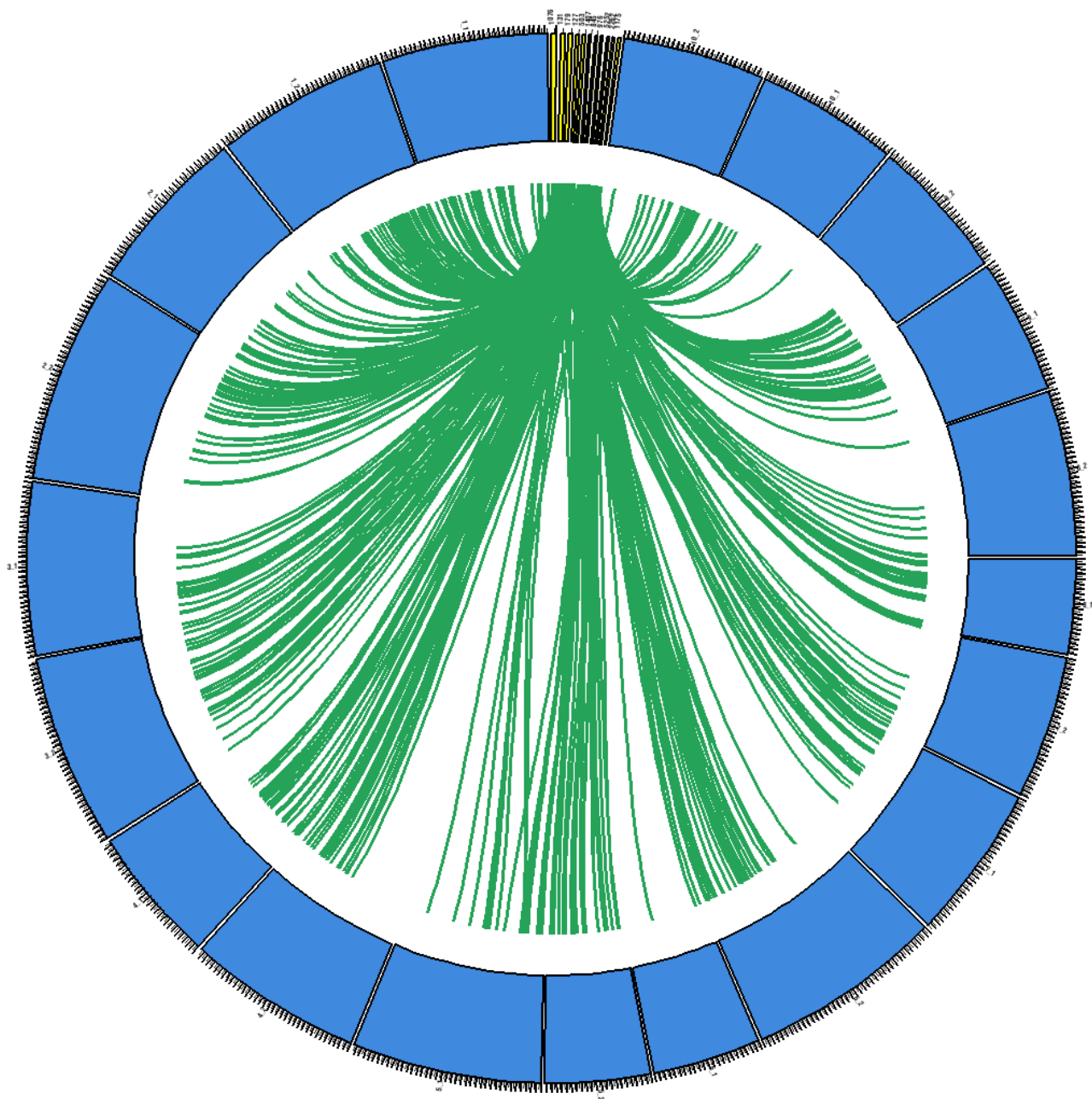
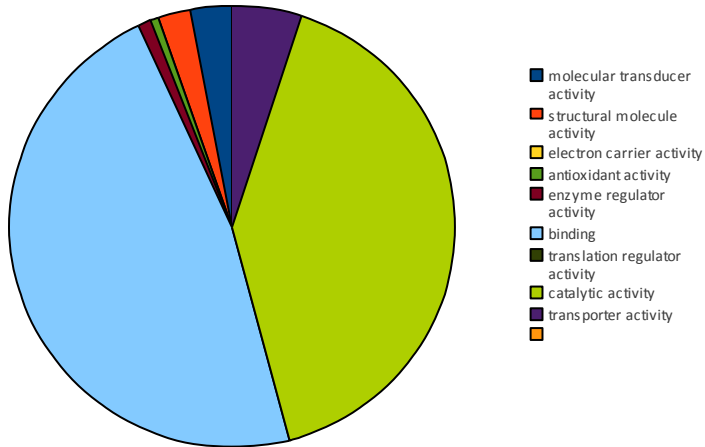


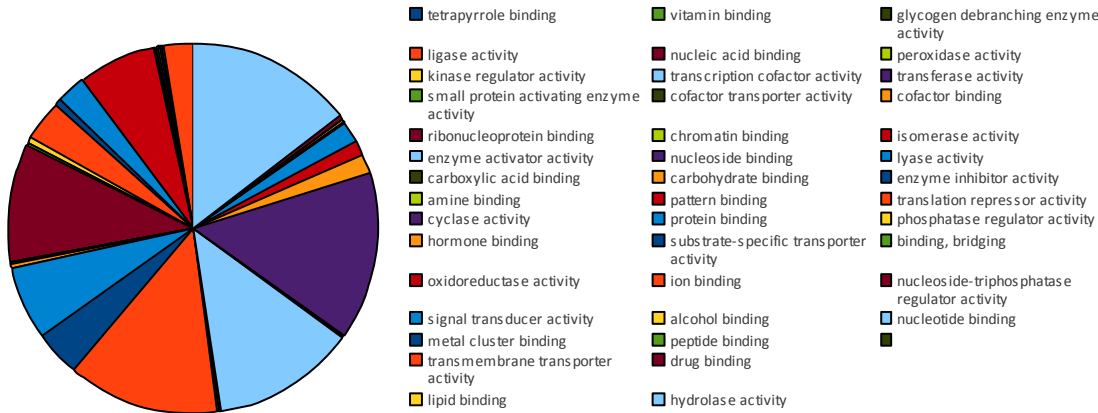


Figure S4  
a

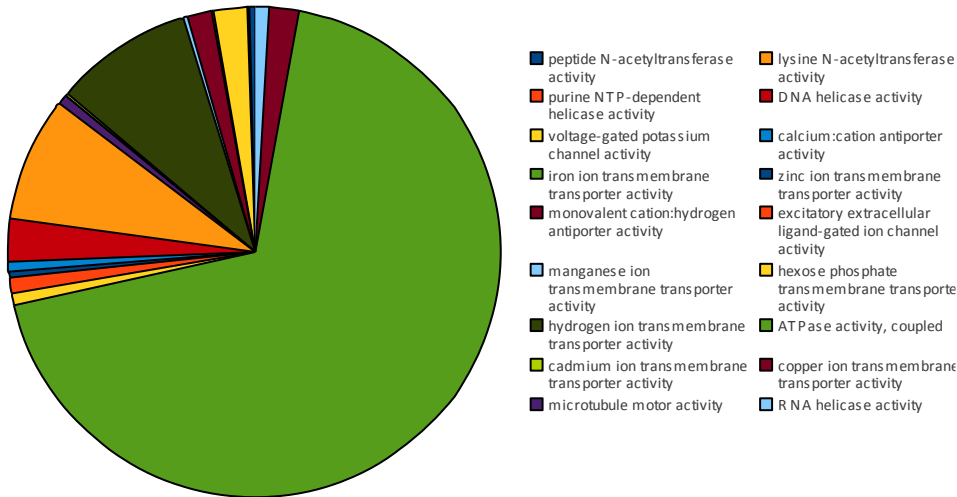
Molecular Function: Level 2; Root



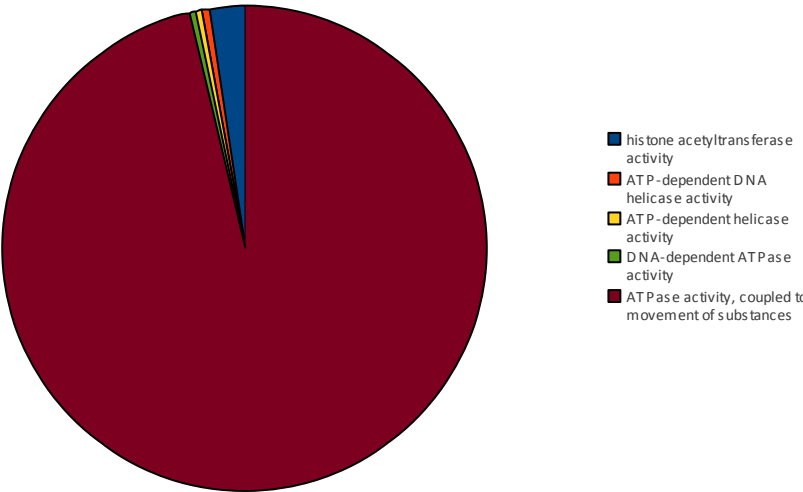
Molecular Function: Level 3; Root



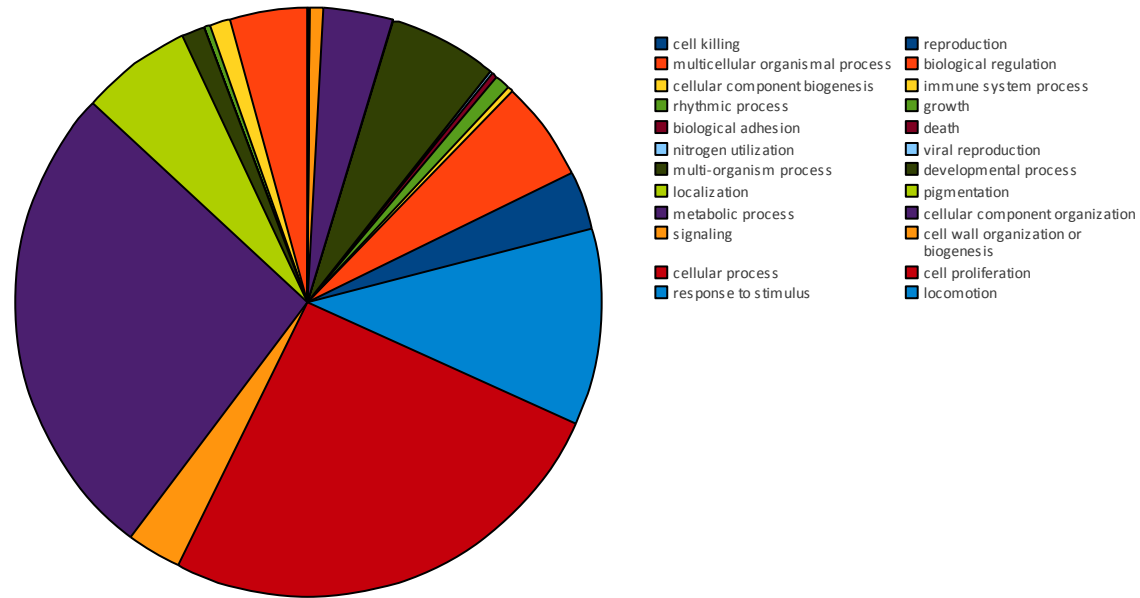
Molecular Function: Level 9; Root



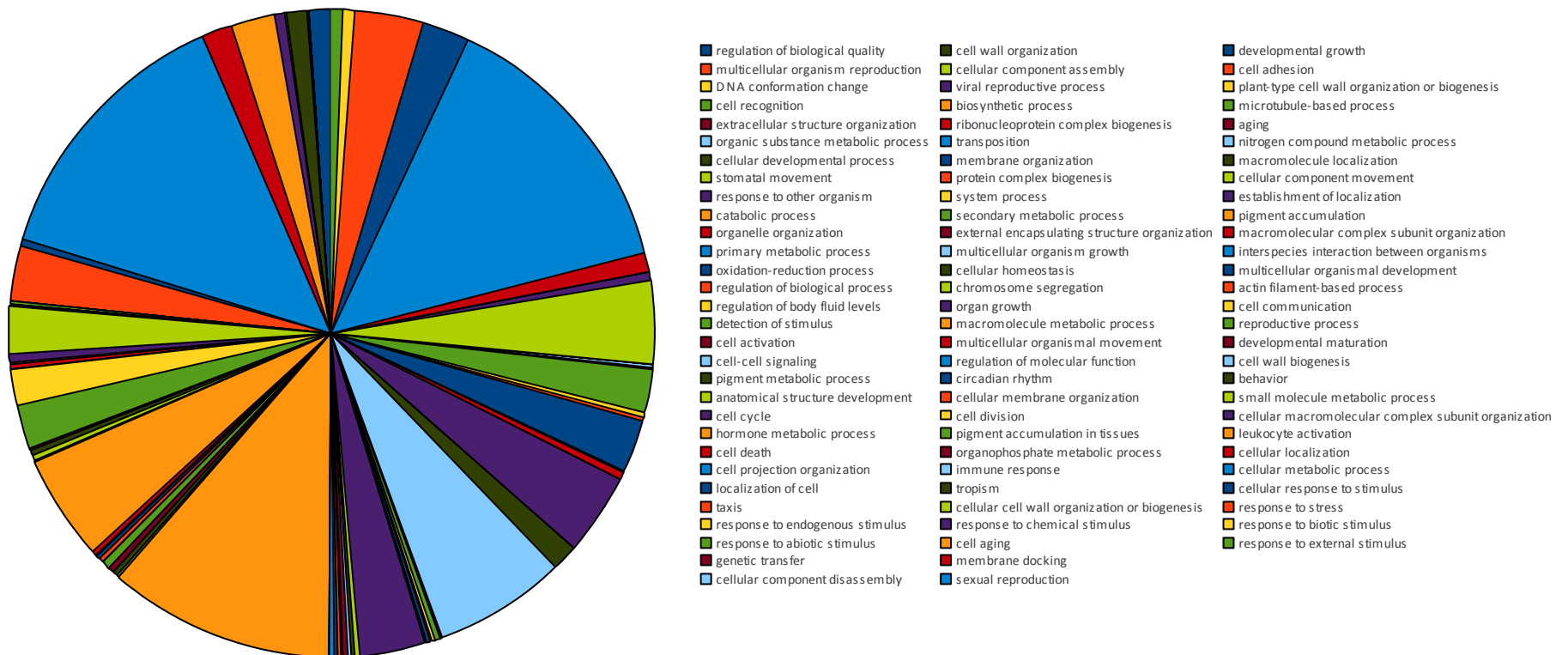
Molecular Function: Level 10; Root



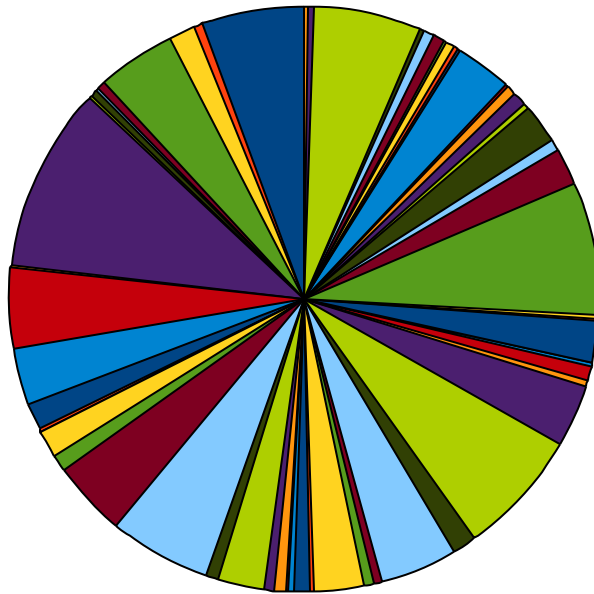
# Biological Process : Level 2; Root



# Biological Process : Level 3; Root

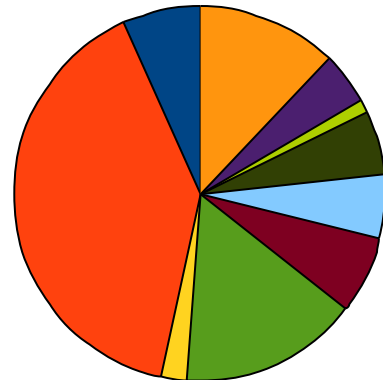


## Biological Process : Level 9; Root



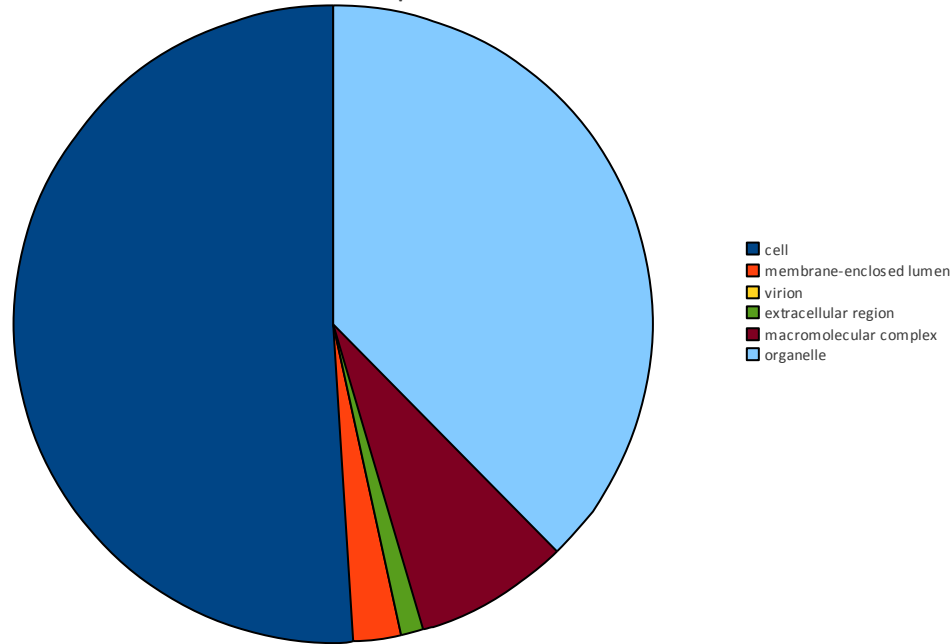
- RNA export from nucleus
- negative regulation of histone acetylation
- regulation of histone methylation
- trichoblast differentiation
- positive regulation of ARF GTPase activity
- maturaton of SSU-rRNA
- regulation of anion channel activity
- regulation of mRNA processing
- RNA splicing, via transesterification reactions with bulged adenosine as nucleophile
- cleavage involved in rRNA processing
- copper ion transport
- gene silencing by miRNA
- regulation of transcription from RNA polymerase II promoter
- induction of apoptosis
- regulation of histone modification
- NADP metabolic process
- production of siRNA involved in RNA interference
- calcium ion transport
- manganese ion transport
- regulation of protein kinase activity
- atrachoblast differentiation
- transcription elongation from RNA polymerase II promoter
- positive regulation by symbiont of host innate immunity
- negative regulation of phosphatase activity
- UMP biosynthetic process
- iron ion homeostasis
- zinc ion transport
- protein geranylgeranylation
- negative regulation of histone modification
- ubiquitin-dependent protein catabolic process
- IMP biosynthetic process
- RNA interference
- cell tip growth
- L-alanine catabolic process
- bis(5'-nucleosidyl) oligophosphate catabolic process
- positive regulation by symbiont of host immune response
- cotranslational protein targeting to membrane
- maturaton of LSU-rRNA
- positive regulation of kinase activity
- ATP biosynthetic process
- production of miRNAs involved in gene silencing by miRNA
- SRP-dependent cotranslational protein targeting to membrane
- proteasomal ubiquitin-dependent protein catabolic process
- regulation of phosphoprotein phosphatase activity
- diadenosine polyphosphate metabolic process
- positive regulation of histone methylation
- regulation of mRNA 3'-end processing
- nuclear-transcribed mRNA catabolic process, deadenylation-independent decay
- tRNA 3'-end processing
- spliceosome assembly
- positive regulation of histone modification
- tRNA wobble base modification
- DNA double-strand break processing
- regulation of histone acetylation
- actin filament capping
- GTP catabolic process
- peptidyl-arginine omega-N-methylation
- modulation by symbiont of host innate immunity

## Biological Process : Level 10; Root

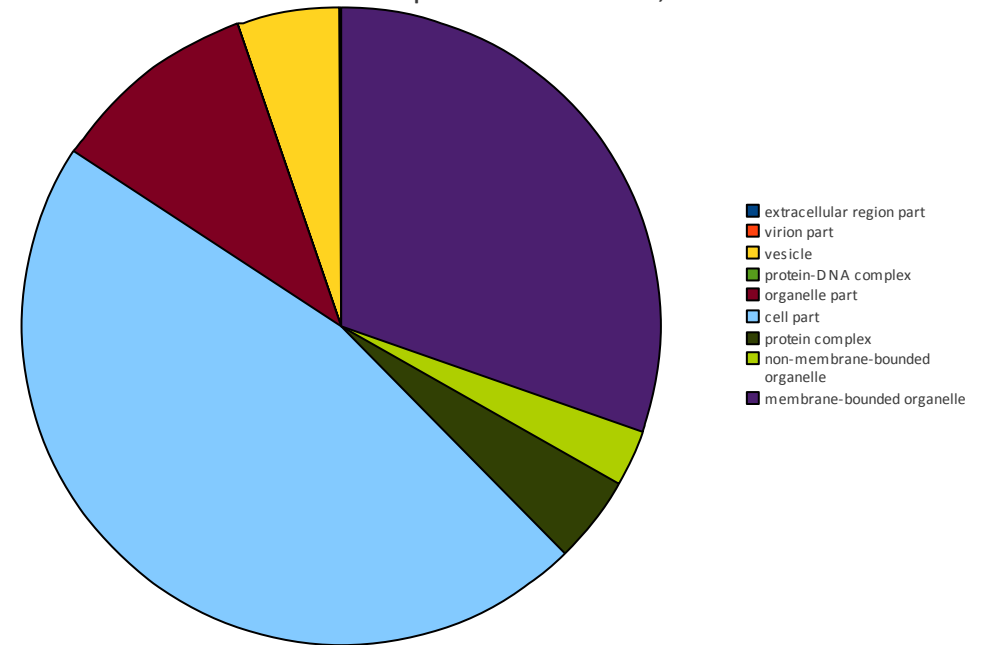


- pentose-phosphate shunt
- regulation of GTP catabolic process
- regulation of MAP kinase activity
- mRNA export from nucleus
- NADPH regeneration
- diadenosine polyphosphate catabolic process
- L-fucose biosynthetic process
- induction of apoptosis by intracellular signals
- regulation of cyclin-dependent protein kinase activity
- internal peptidyl-lysine acetylation

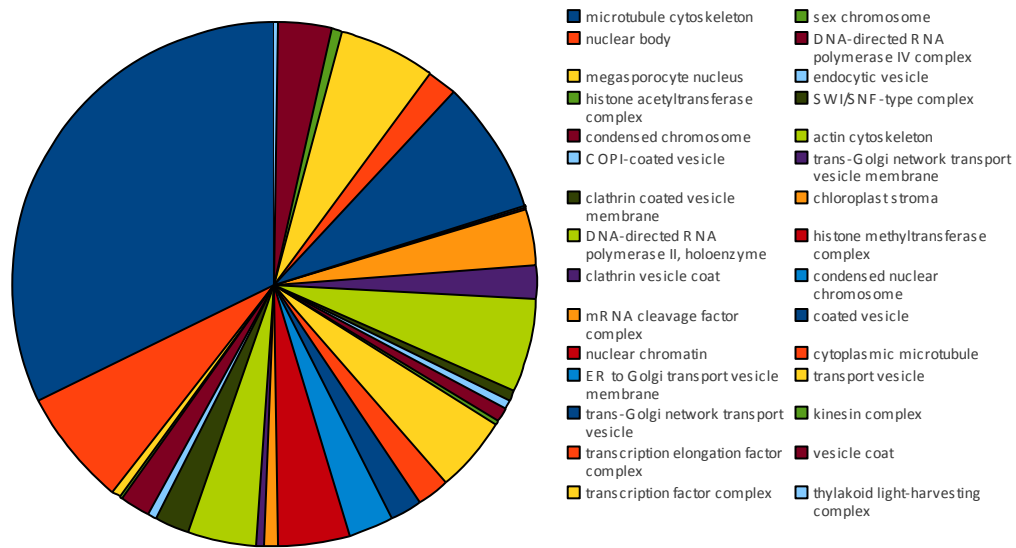
Cellular Components: Level 2; Root



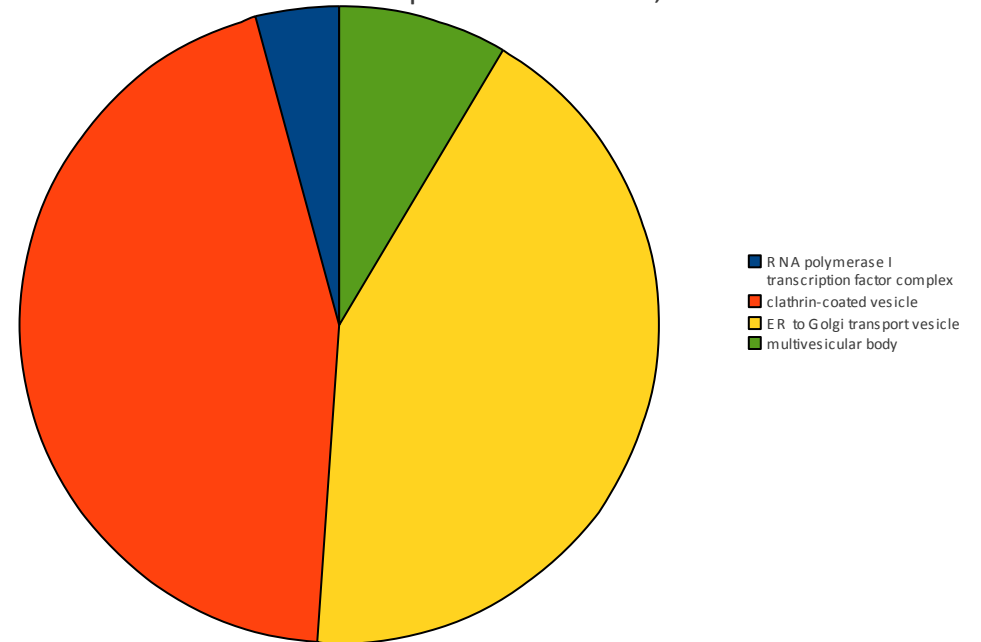
Cellular Components: Level 3; Root



Cellular Components: Level 8; Root

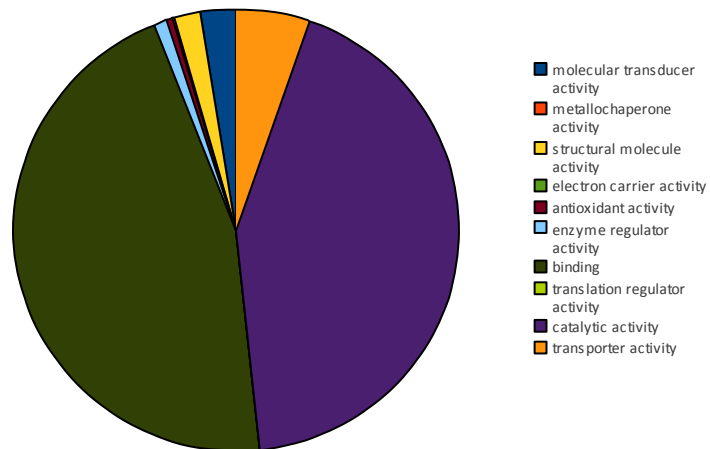


Cellular Components: Level 9; Root

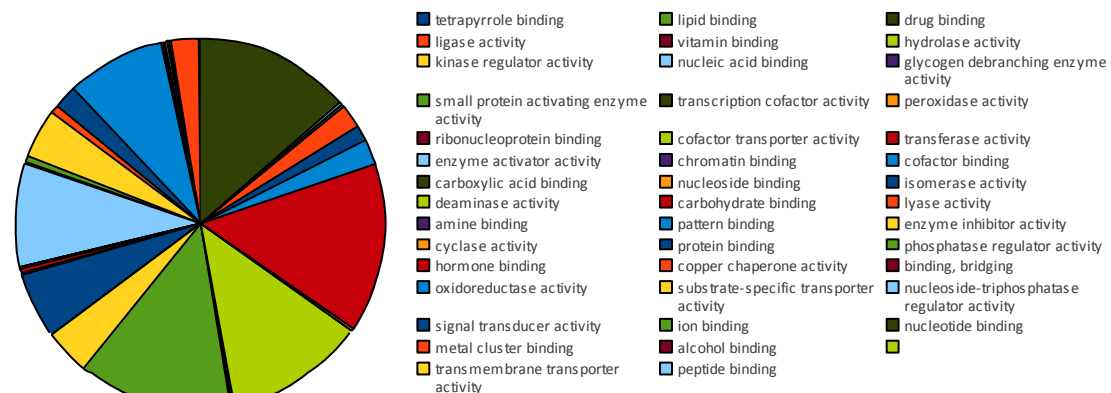


b

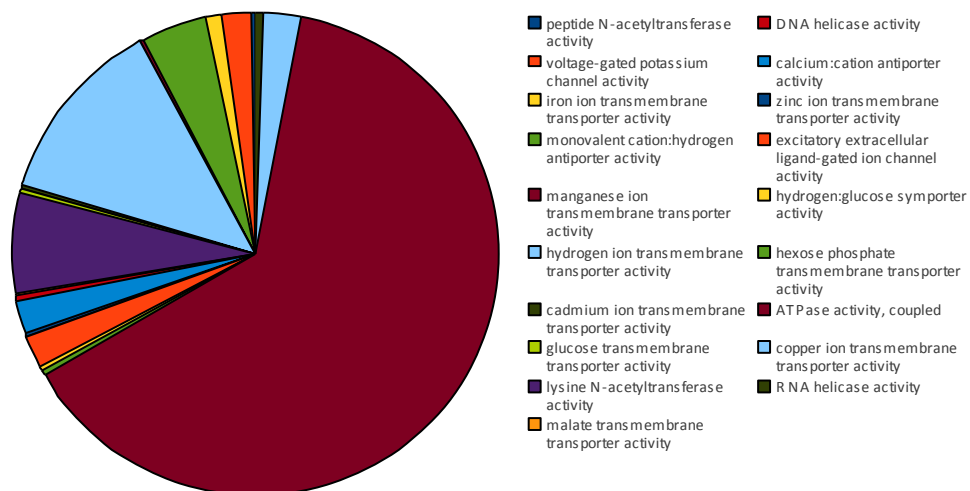
Molecular Function: Level 2; Leaf



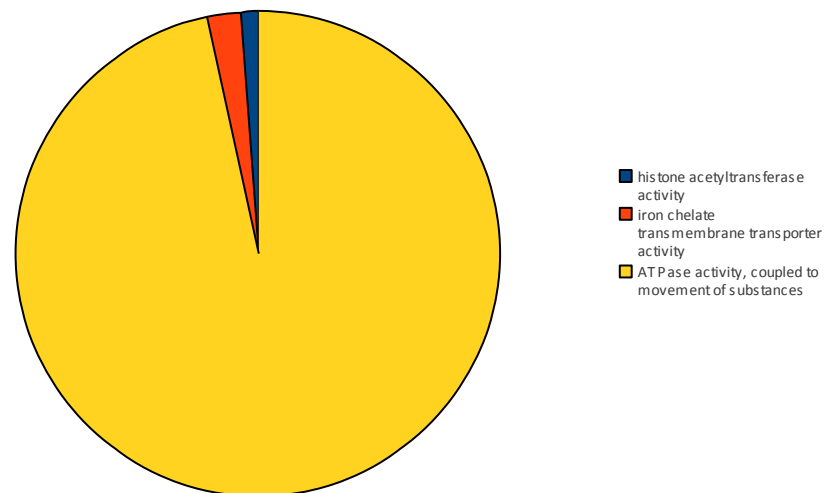
Molecular Function: Level 3; Leaf



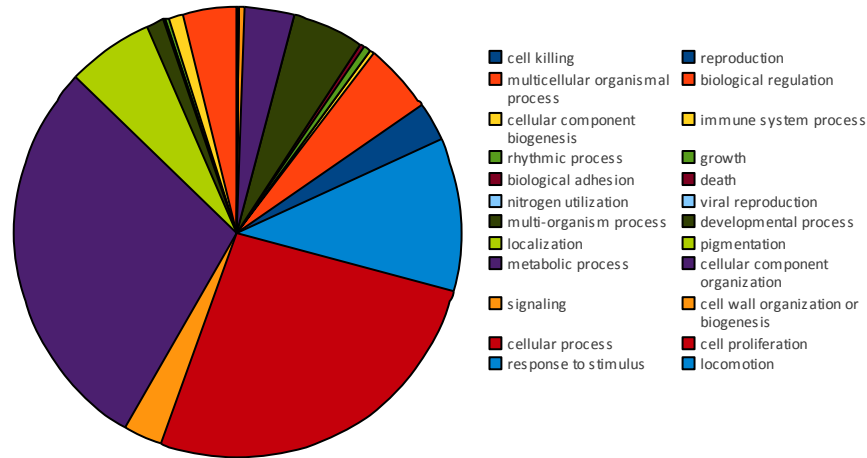
Molecular Function: Level 9; Leaf



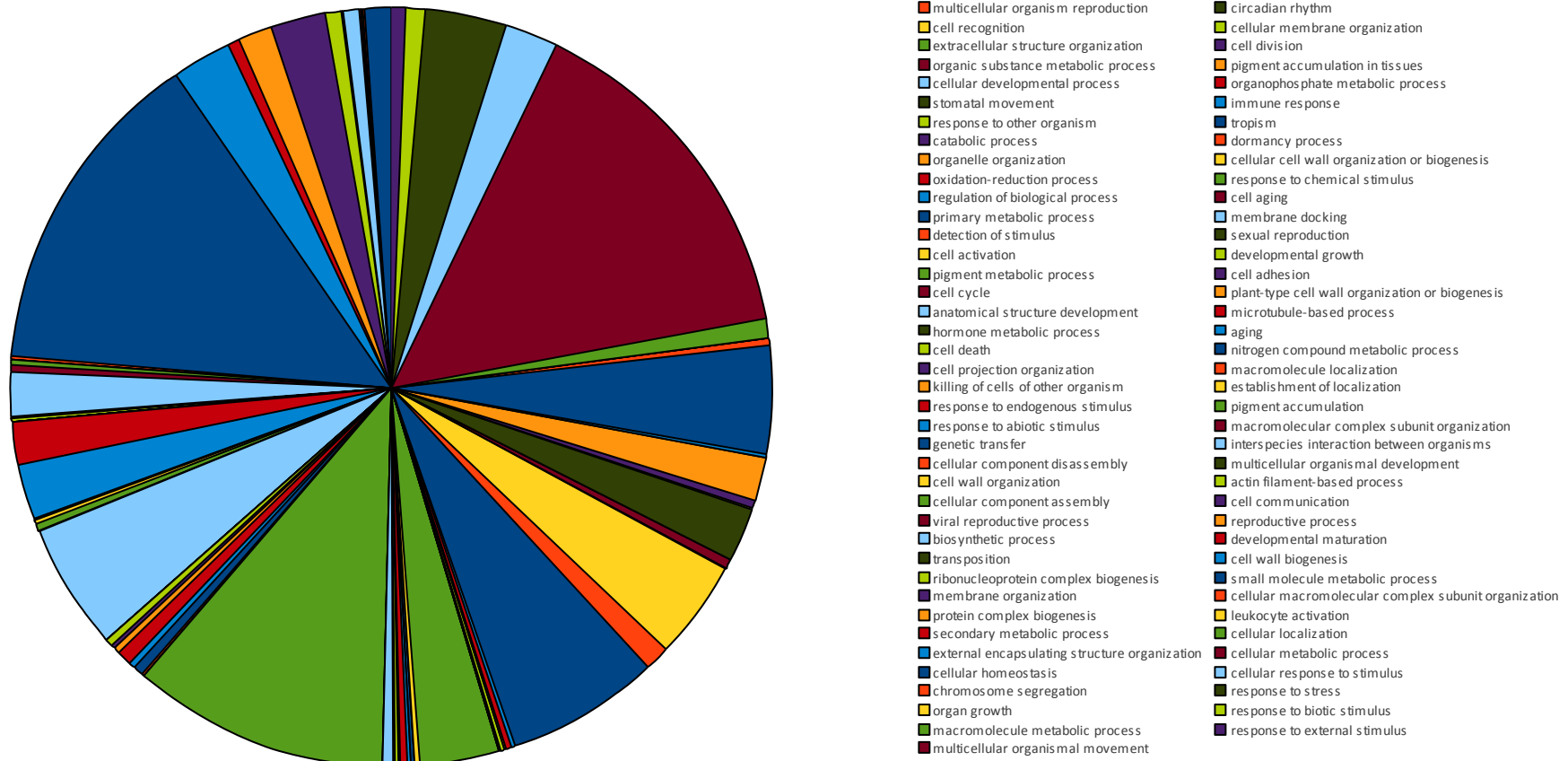
Molecular Function: Level 10; Leaf



## Biological Process: Level 2; Leaf



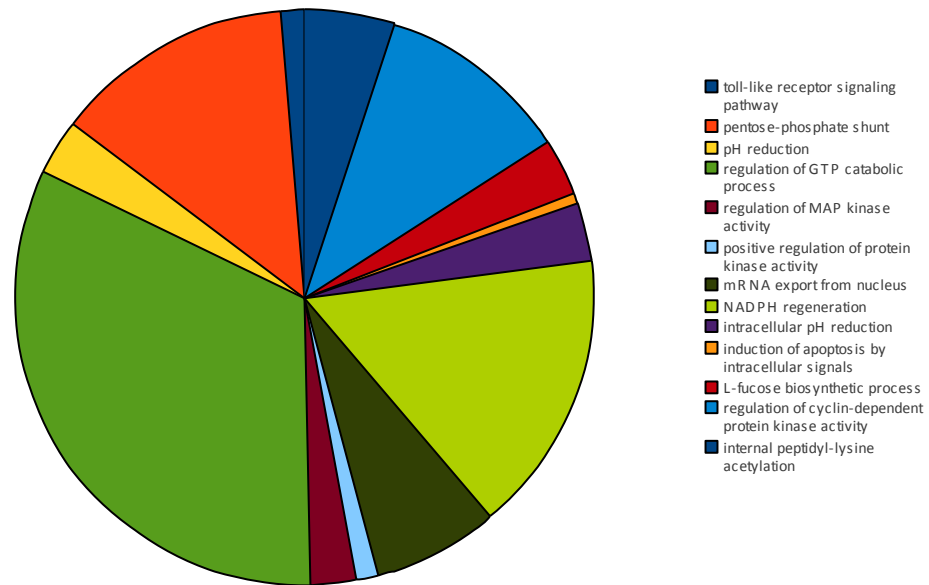
## Biological Process: Level 3; Root



## Biological Process: Level 9; Leaf

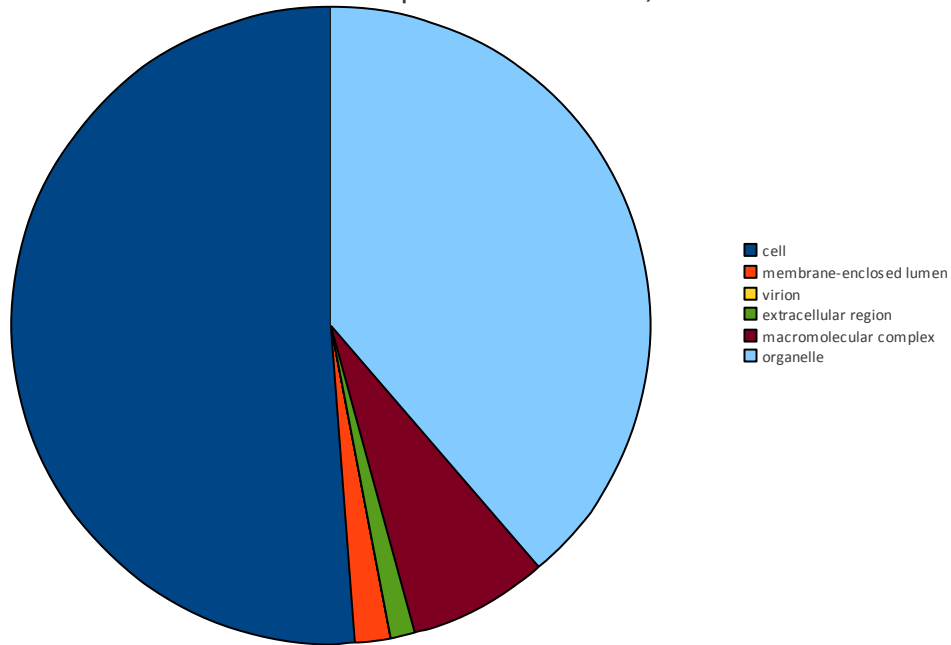


## Biological Process: Level 10; Leaf

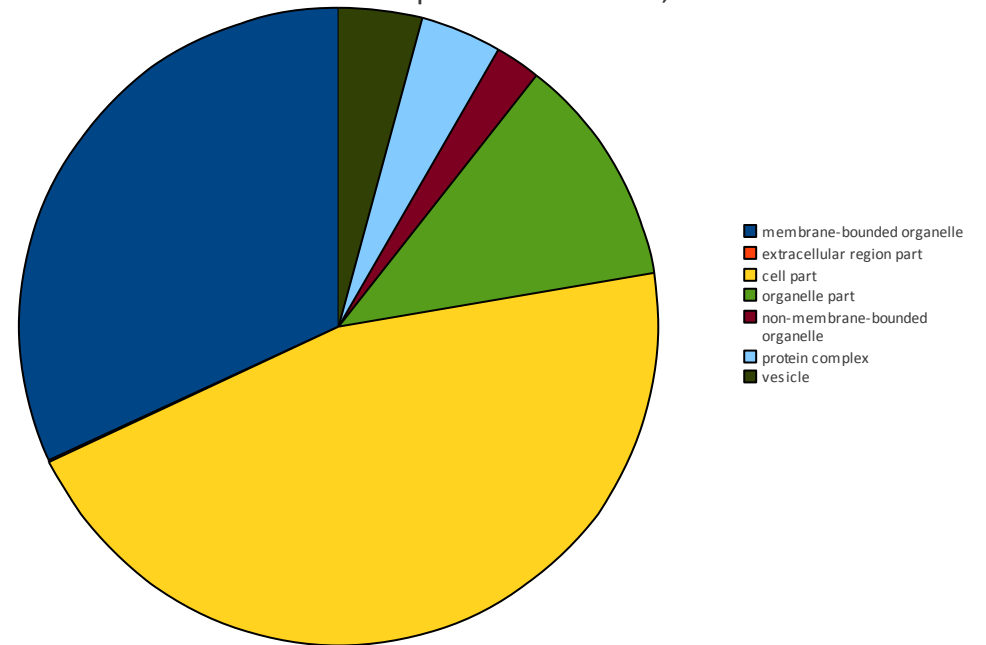




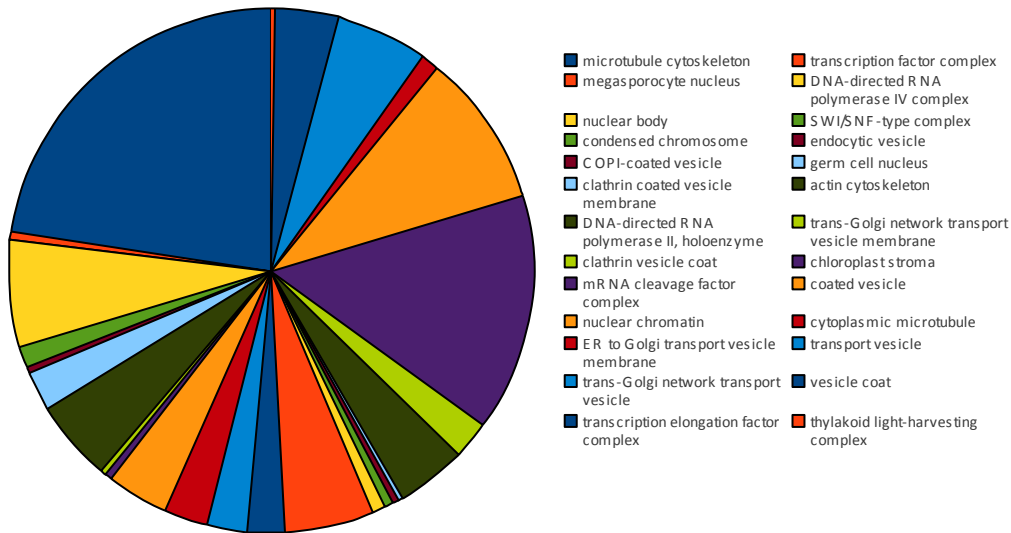
Cellular Components: Level 2; Leaf



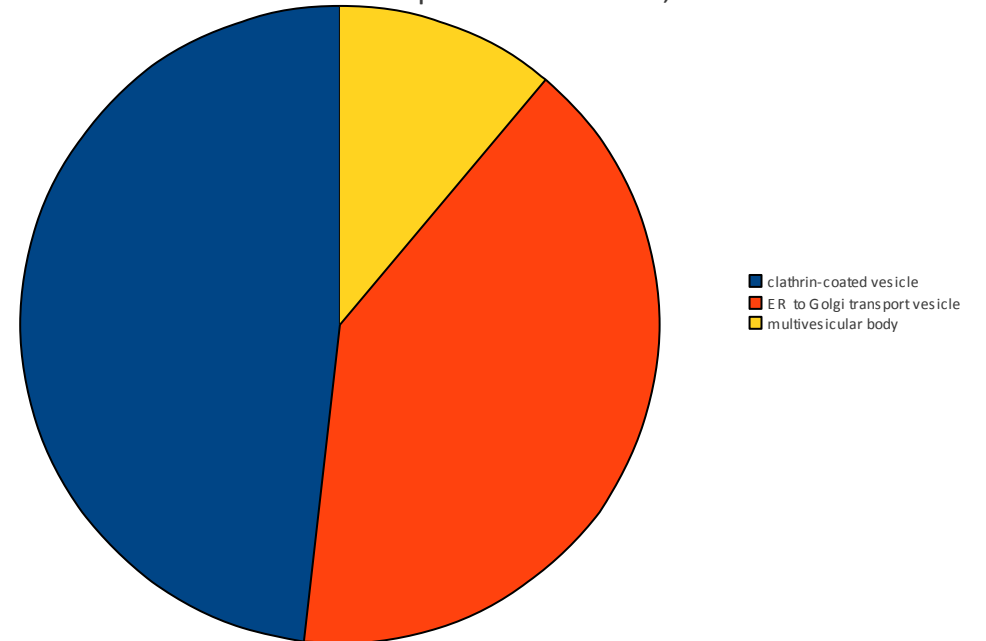
Cellular Components: Level 3; Leaf



Cellular Components: Level 8; Leaf

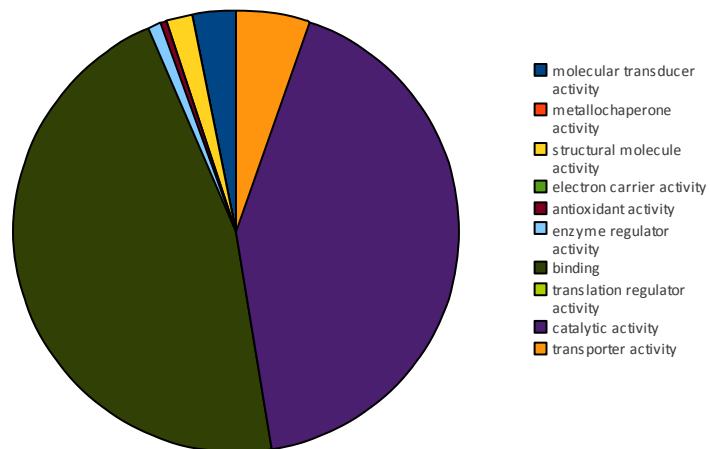


Cellular Components: Level 9; Leaf

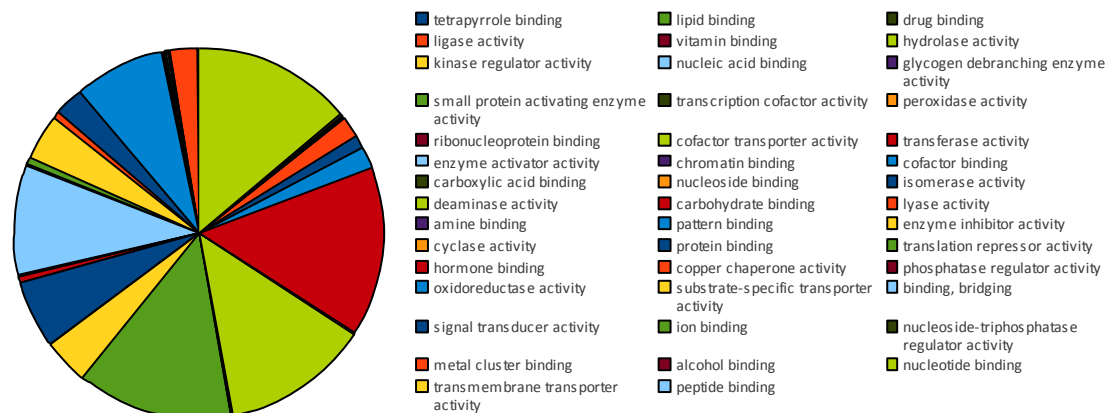


C

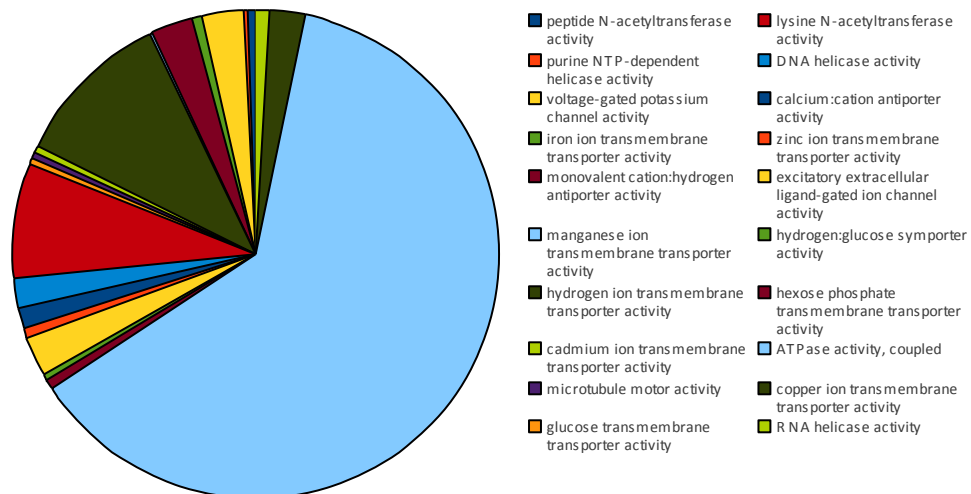
Molecular Function: Level 2; S tem



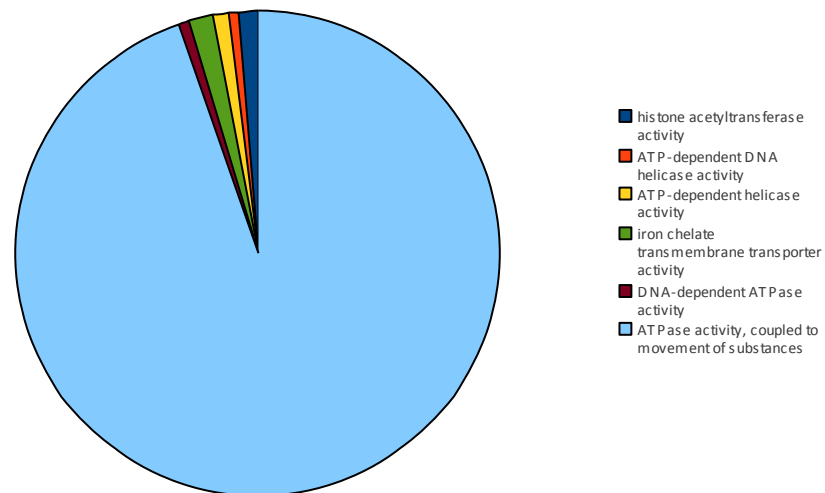
Molecular Function: Level 3; S tem



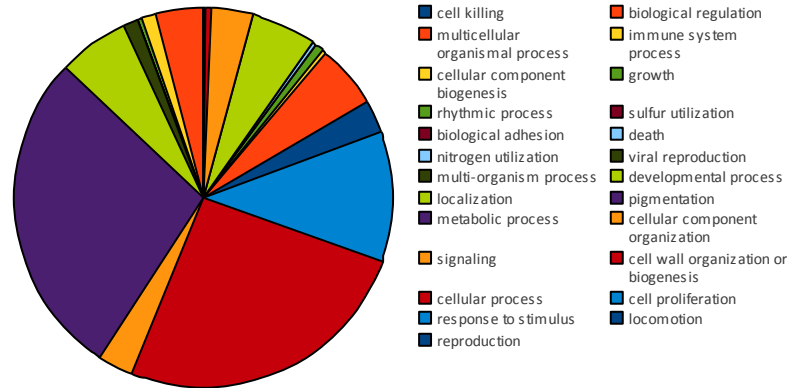
Molecular Function: Level 9; S tem



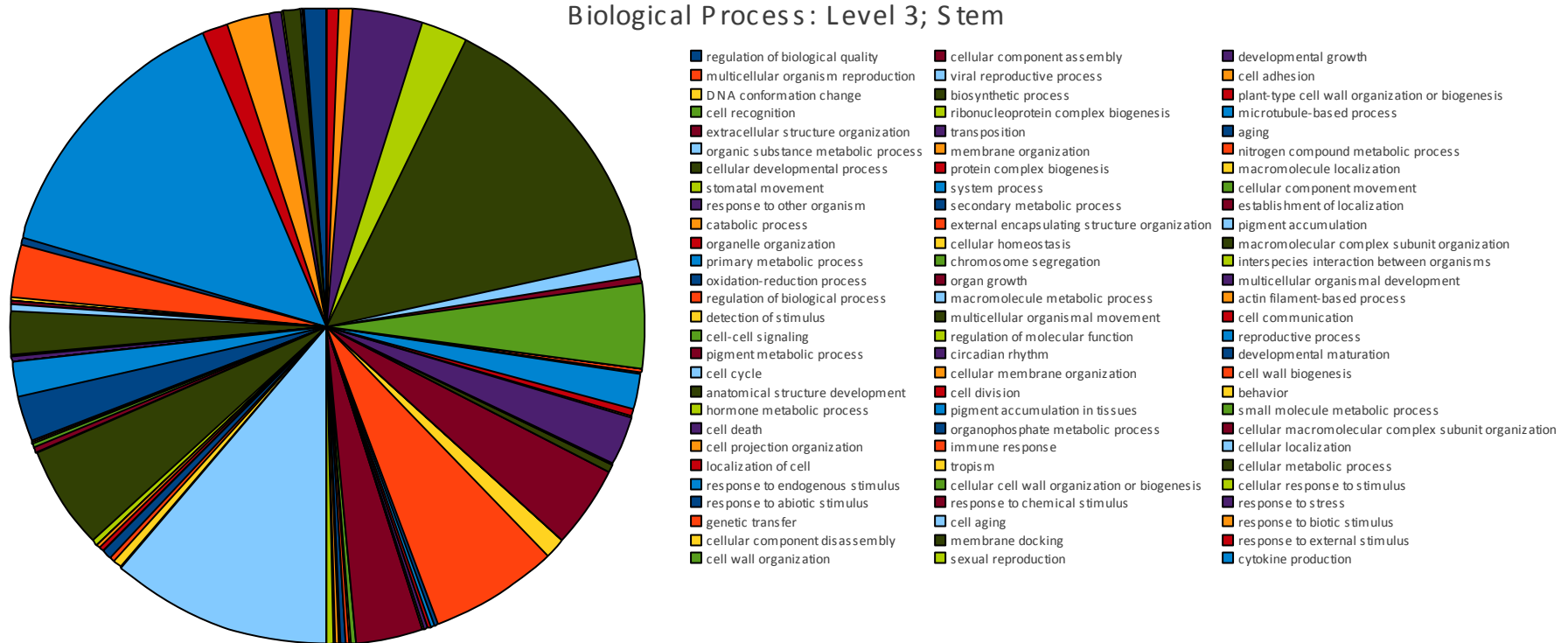
Molecular Function: Level 10; S tem



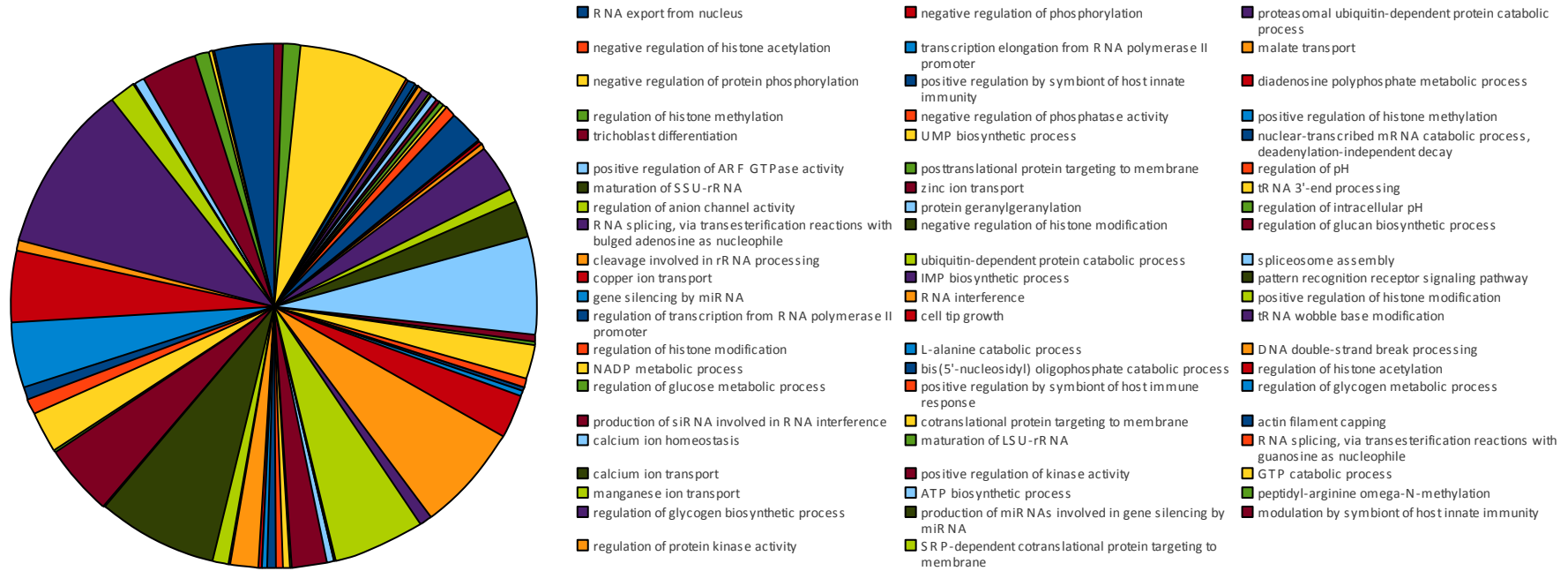
## Biological Process : Level 2; Stem



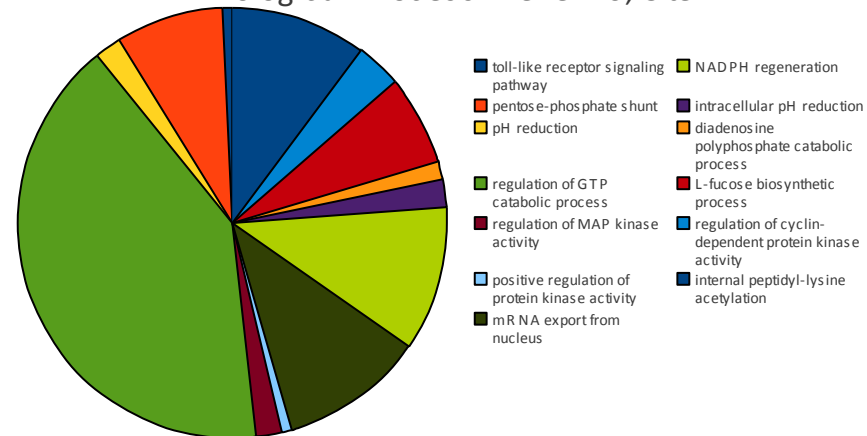
## Biological Process : Level 3; Stem



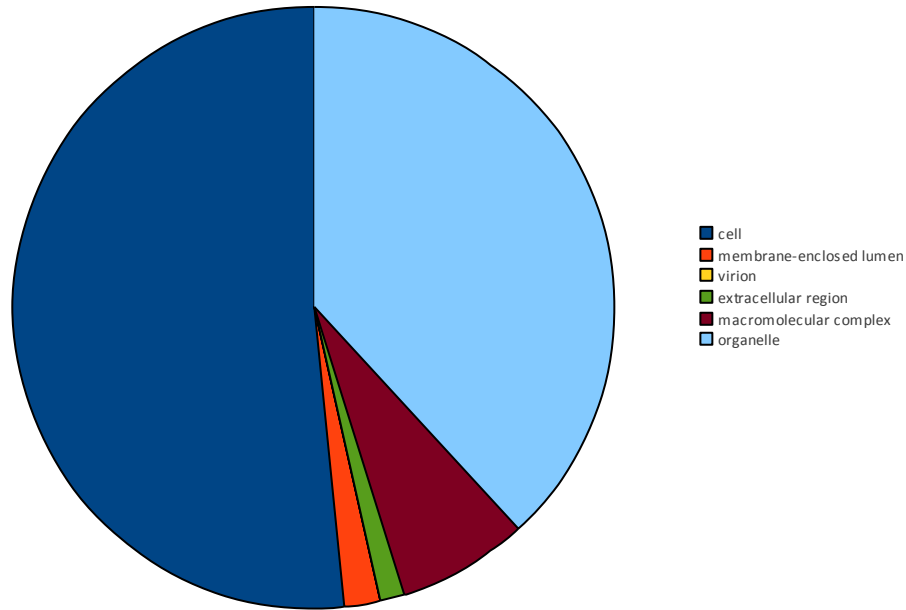
## Biological Process : Level 9; S tem



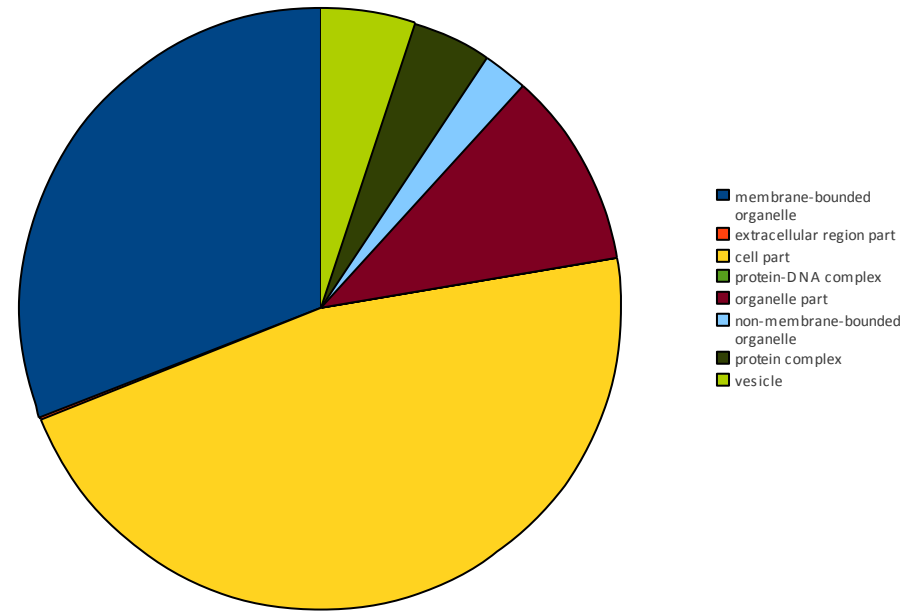
## Biological Process : Level 10; S tem



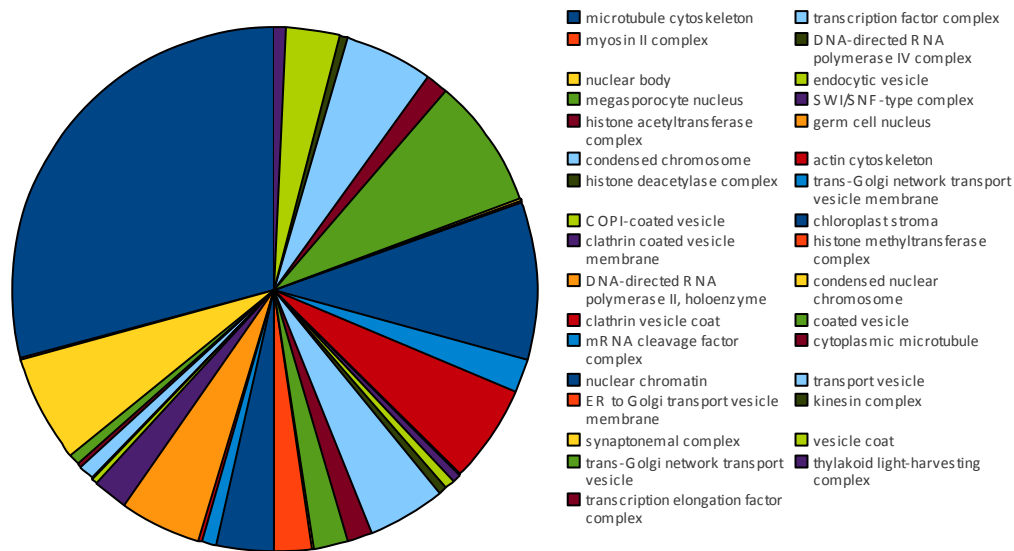
Cellular Components : Level 2; S tem



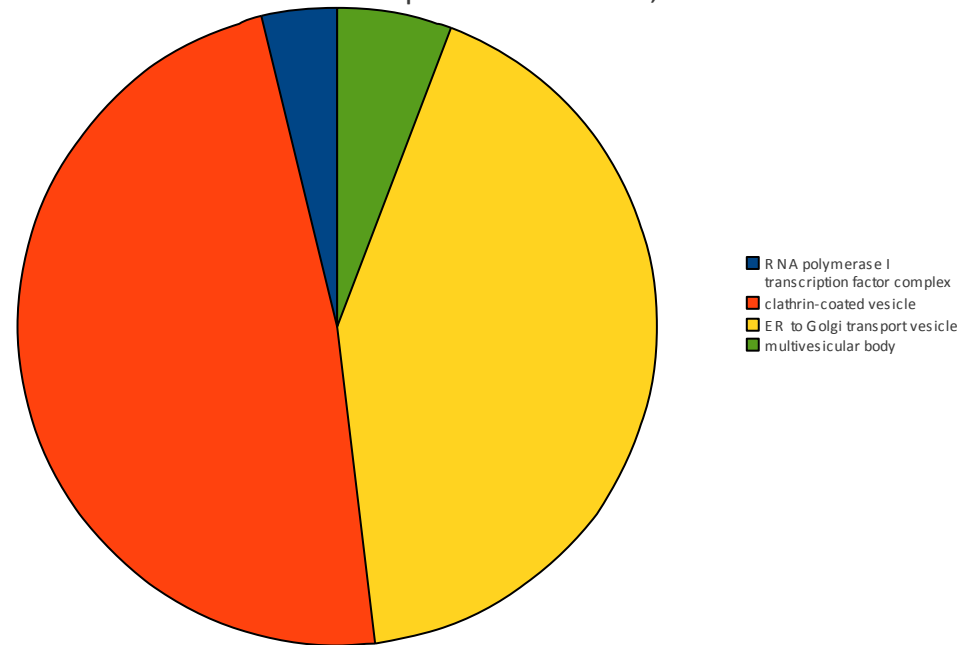
Cellular Components : Level 3; S tem



Cellular Components : Level 8; S tem

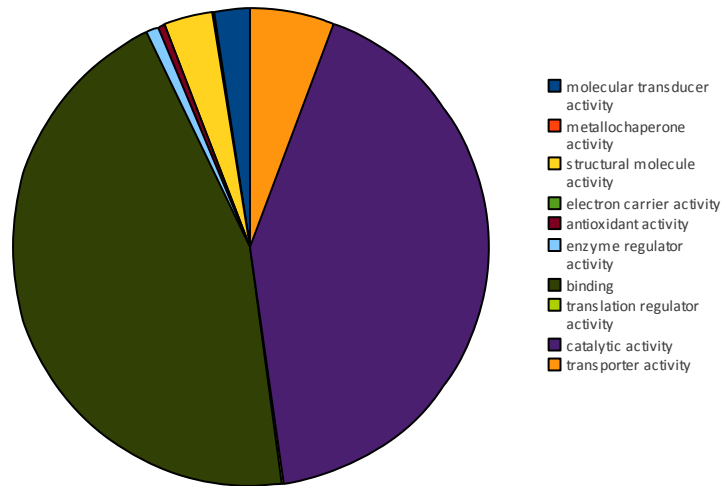


Cellular Components : Level 9; S tem

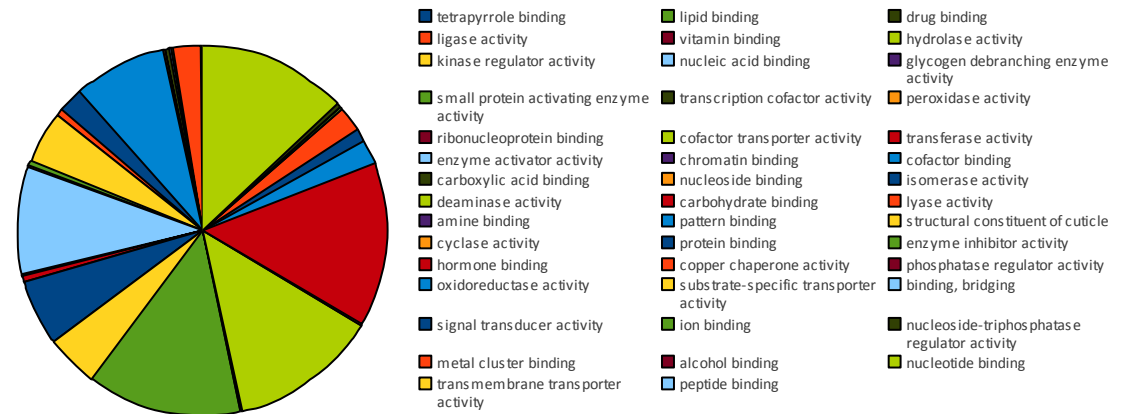


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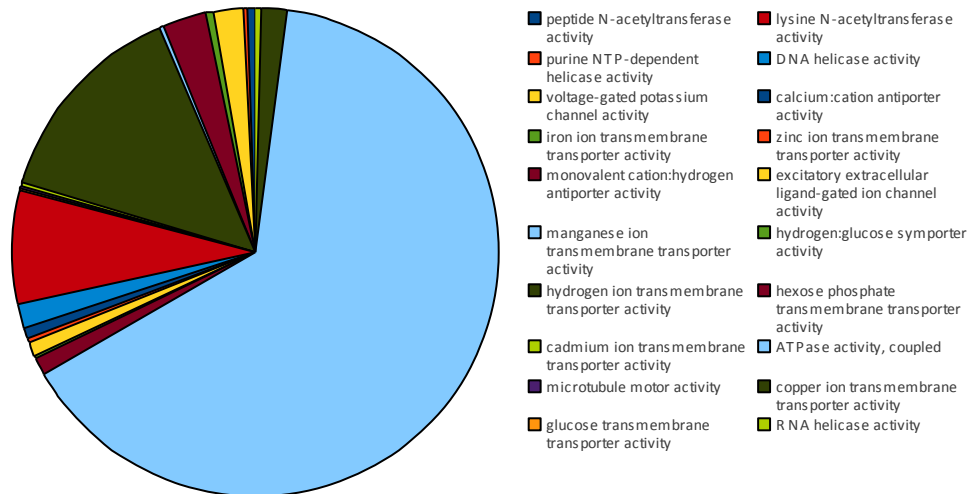
Molecular Function: Level 2; Flower



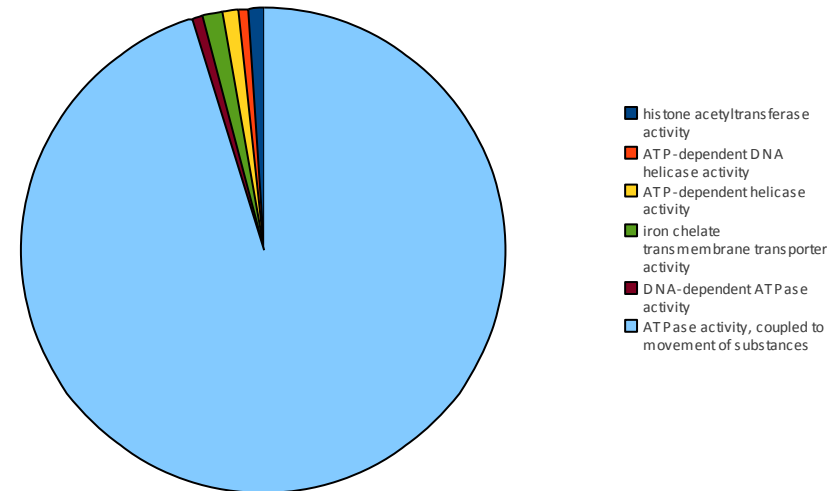
Molecular Function: Level 3; Flower



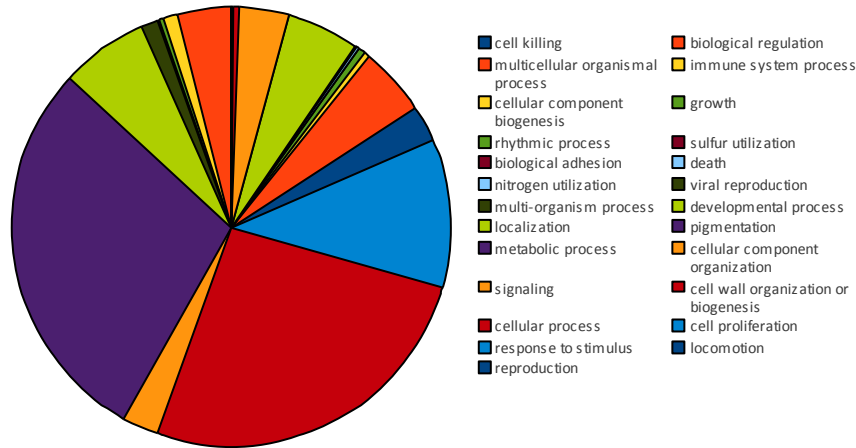
Molecular Function: Level 9; Flower



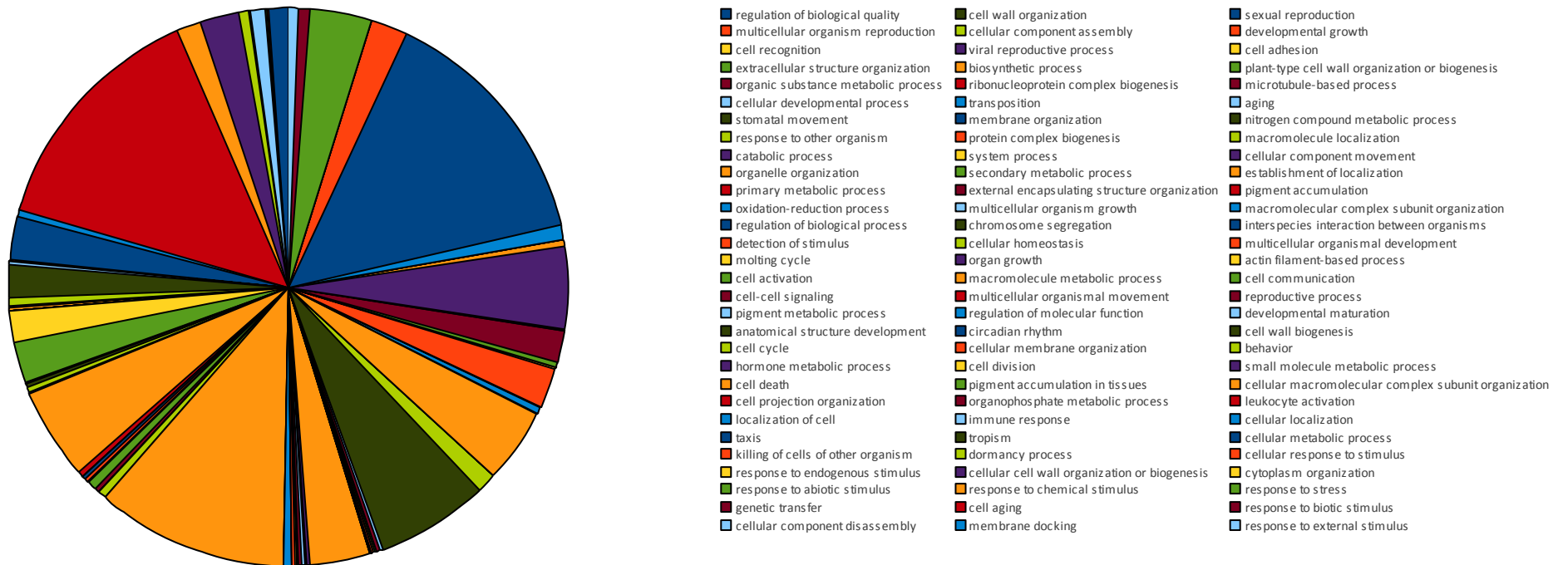
Molecular Function: Level 10; Flower



## Biological Process : Level 2; Flower

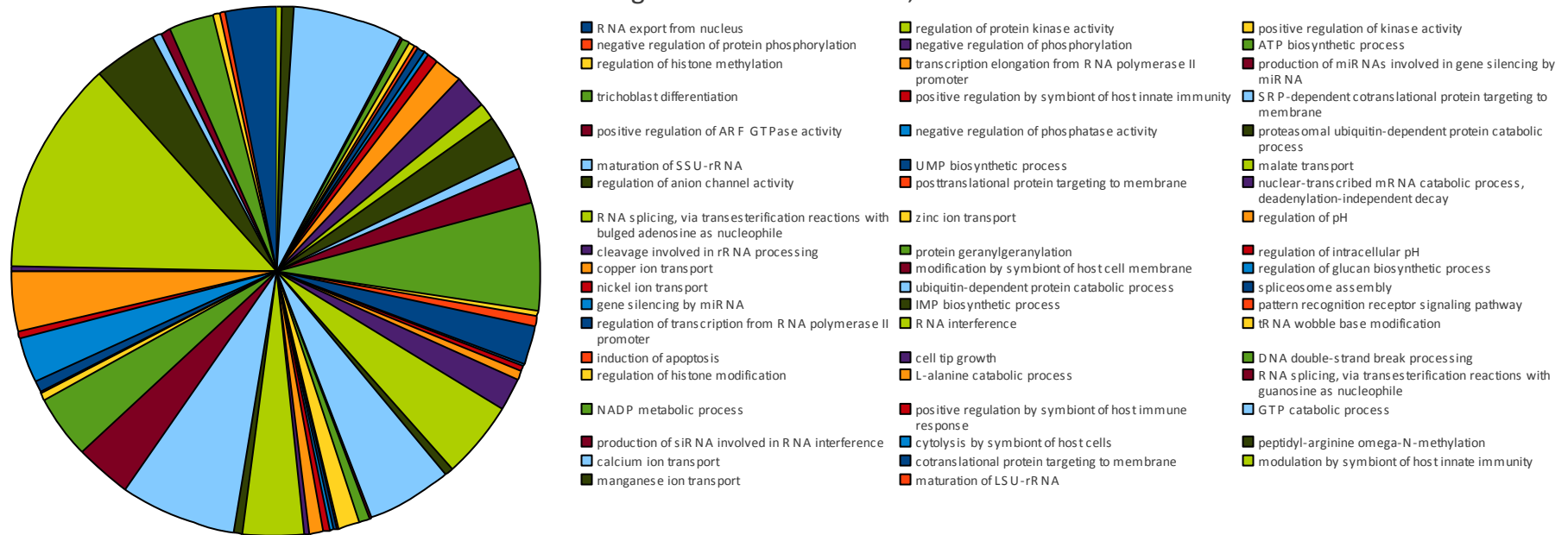


## Biological Process : Level 3; Flower

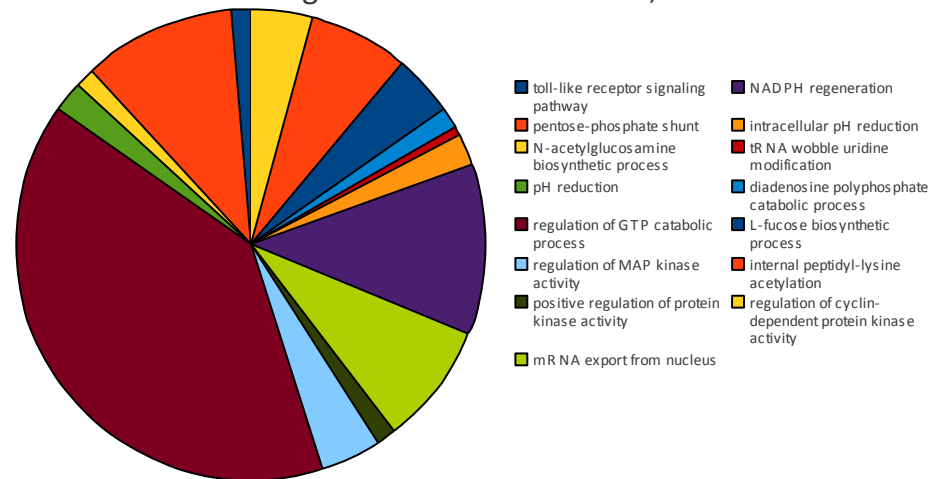




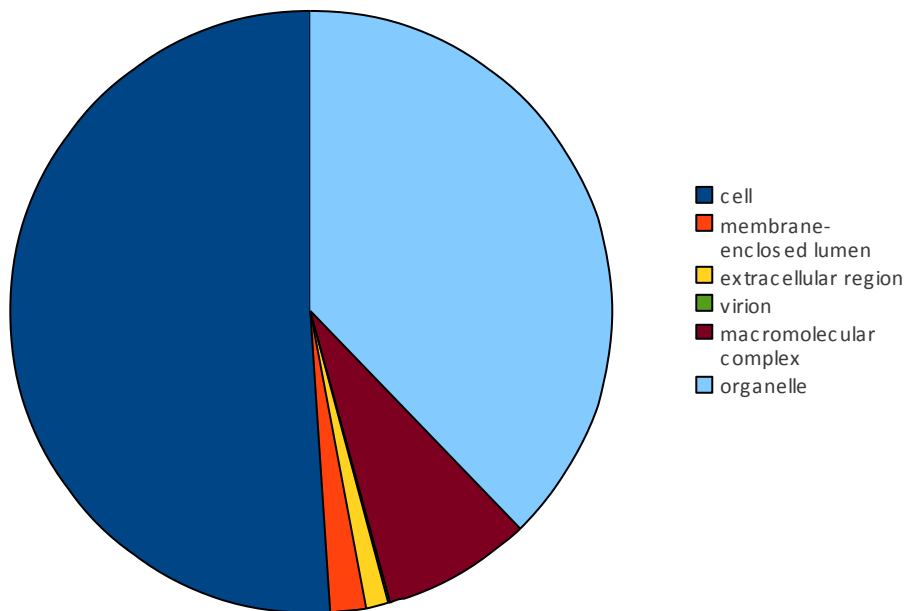
## Biological Process : Level9; Flower



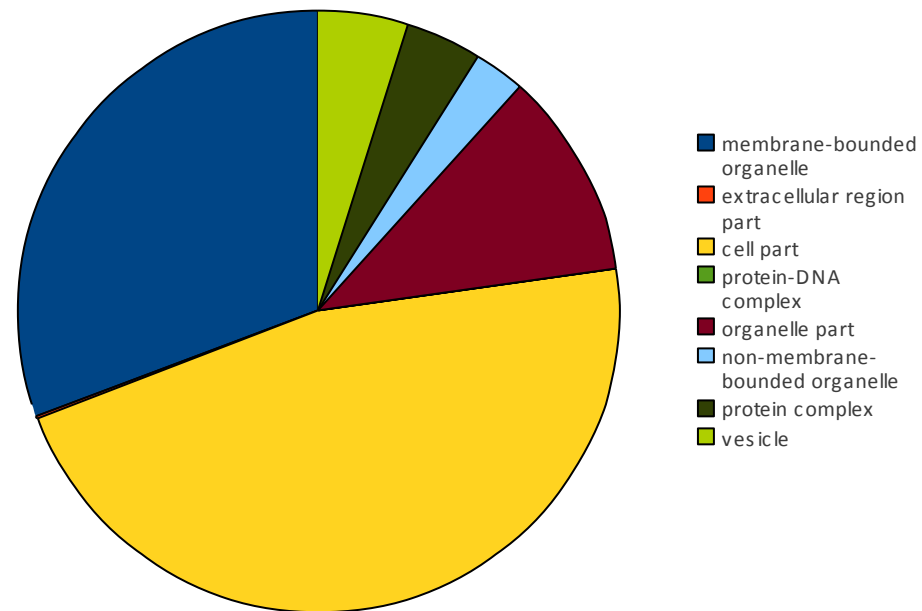
## Biological Process : Level 10; Flower



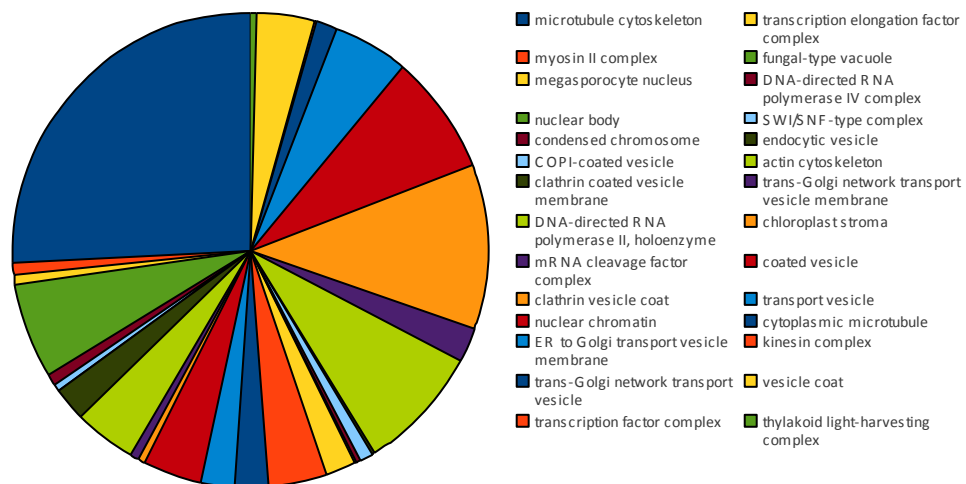
Cellular Components: Level 2; Flower



Cellular Components: Level 3; Flower



Cellular Components: Level 8; Flower



Cellular Components: Level 9; Flower

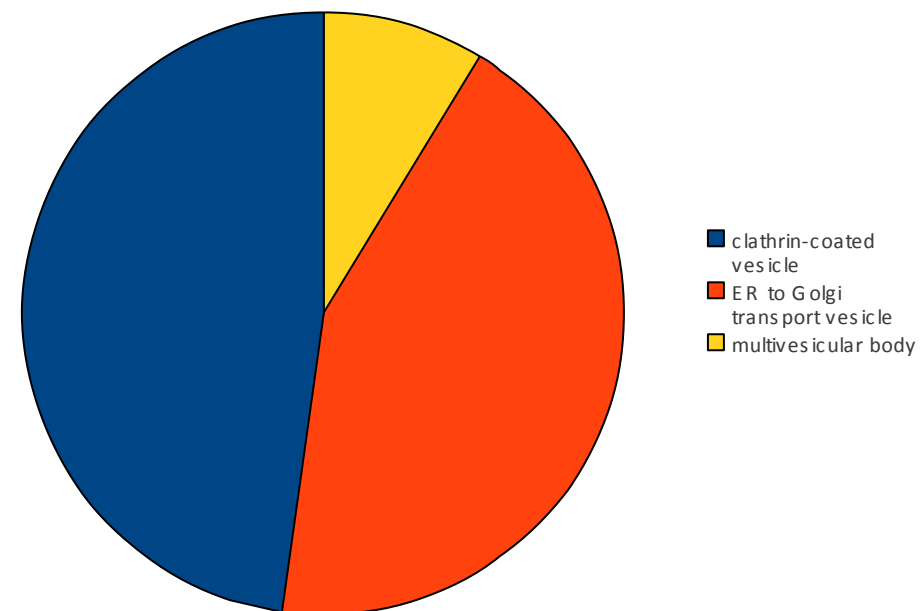
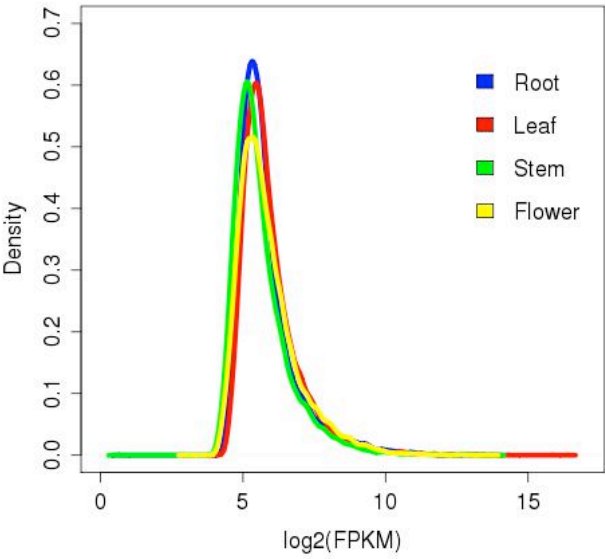
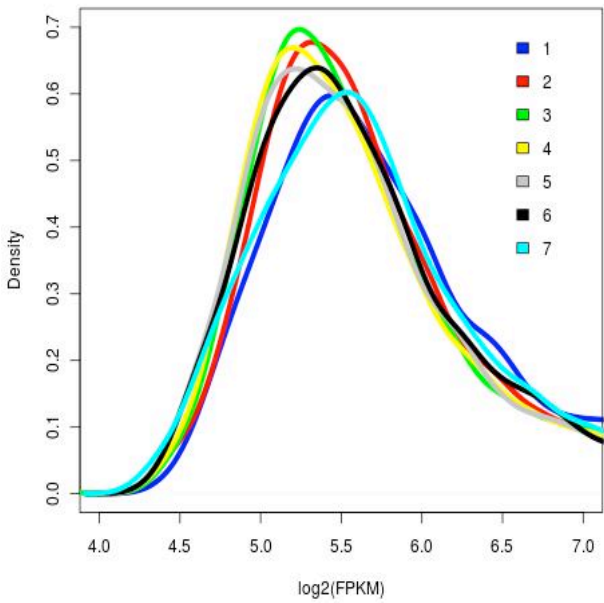


Figure S5



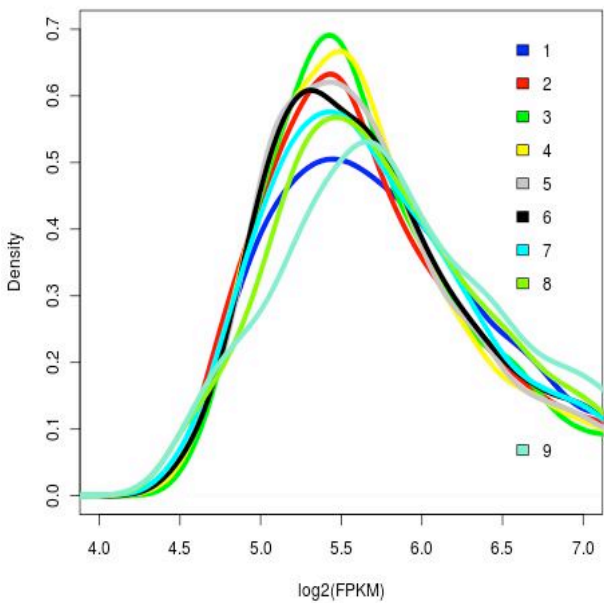
**Figure S6**

**a Root (3988 transcripts)**



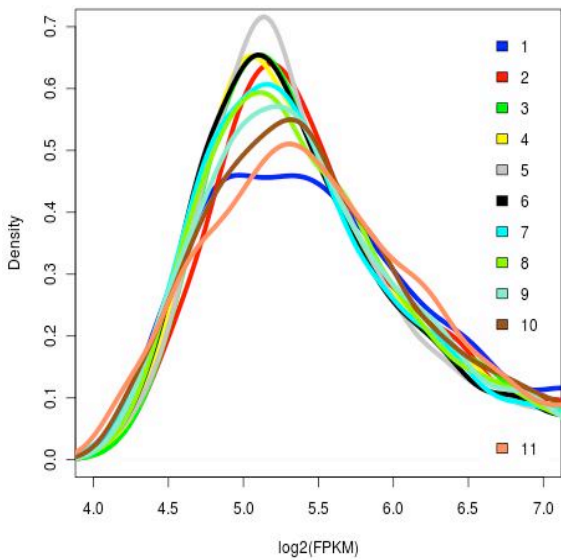
1	2	3	4	5	6	7
21.19	39.46	40.98	42.09	43.16	44.34	46.2

**b Leaf (3041 transcripts)**



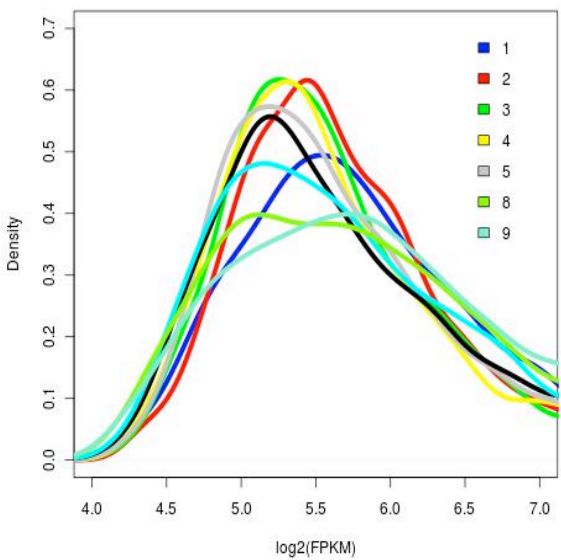
1	2	3	4	5	6	7	8	9
26.1	38.54	40.07	41.07	41.92	42.76	43.67	44.77	46.57

**c Stem (3138 transcripts)**



1	2	3	4	5	6	7	8	9	10	11
23.70	38.24	39.68	40.64	41.38	42.07	42.73	43.42	44.25	45.27	46.99

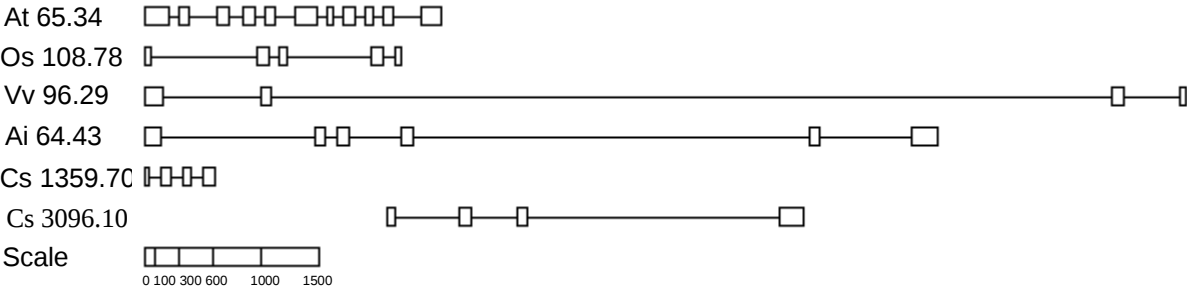
**d Flower (3469 transcripts)**



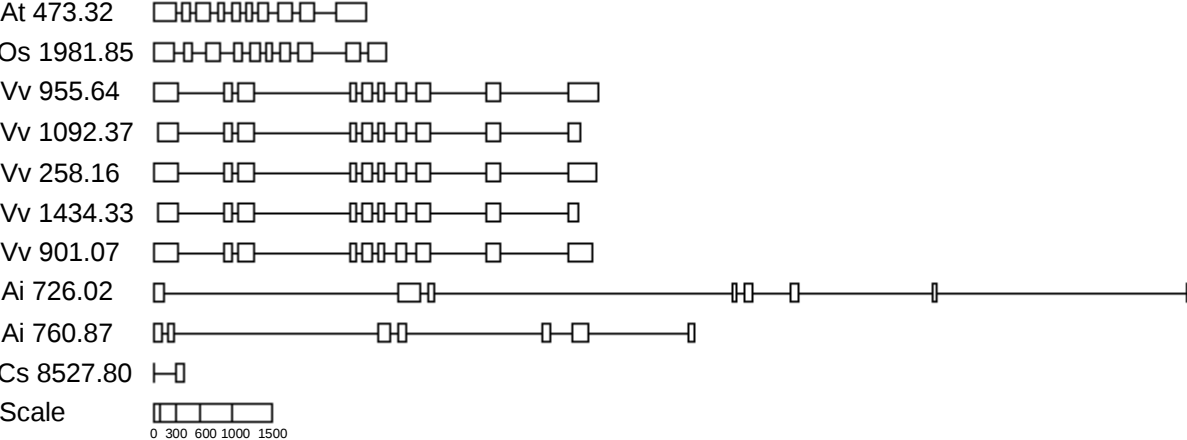
1	2	3	4	5	6	7	8	9
17.52	38.21	39.69	40.68	41.54	42.39	43.34	44.50	46.47

Figure S7

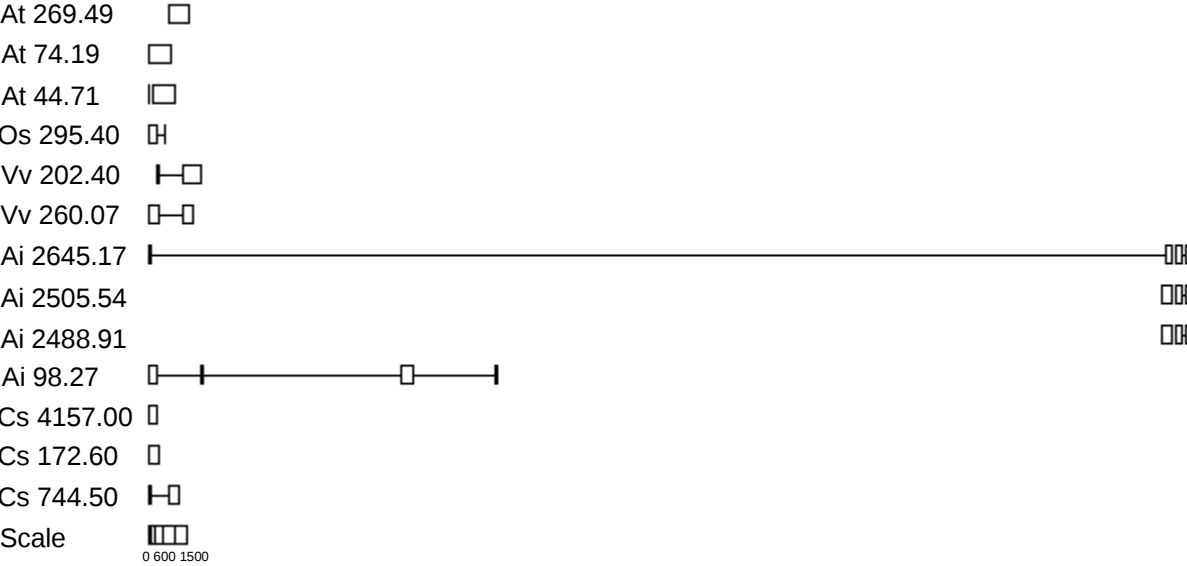
ispE



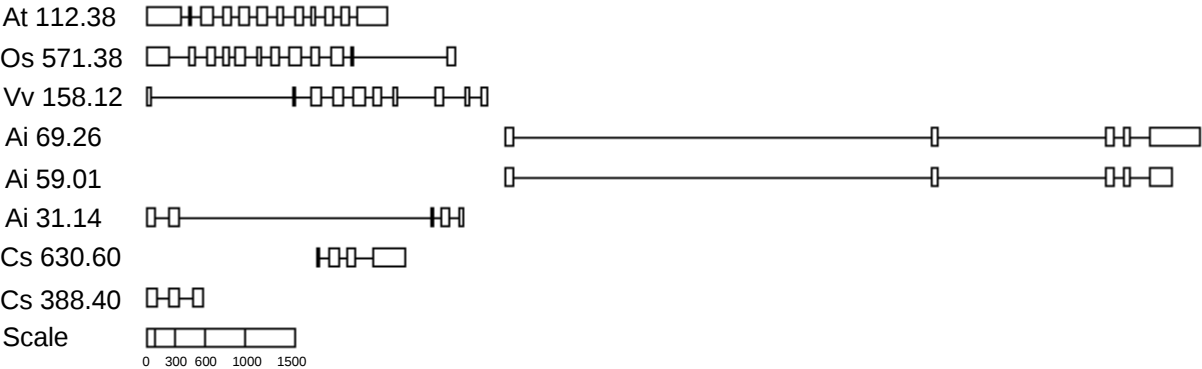
lytB/ispH



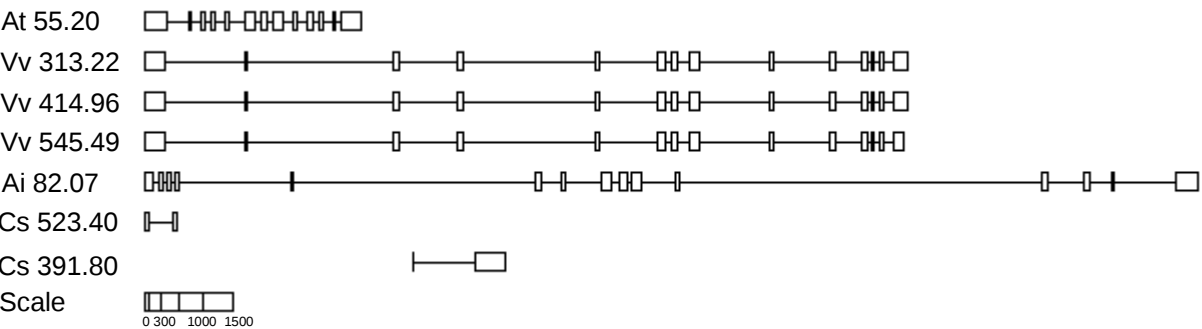
GGPS



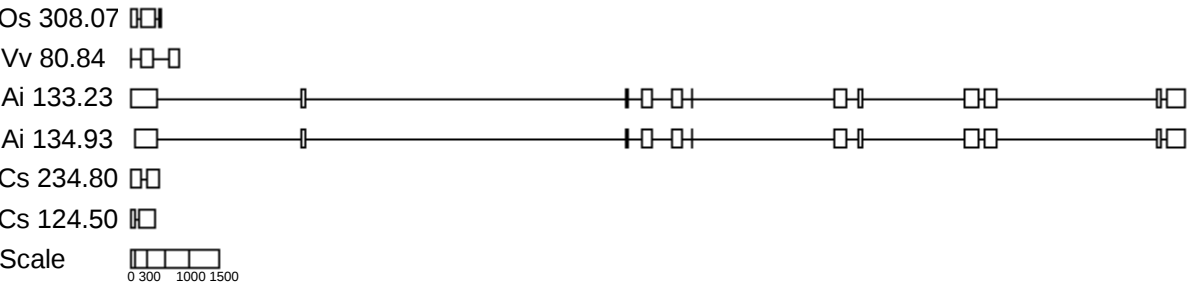
FDPS



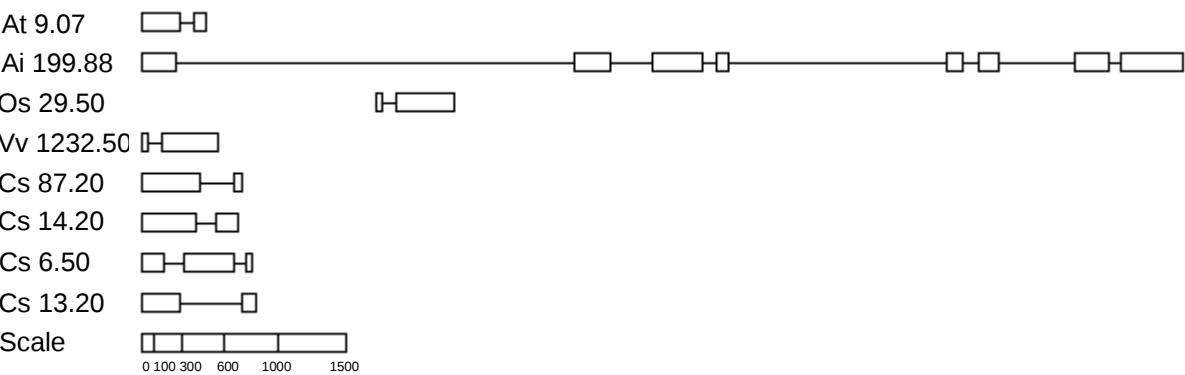
FDFT1



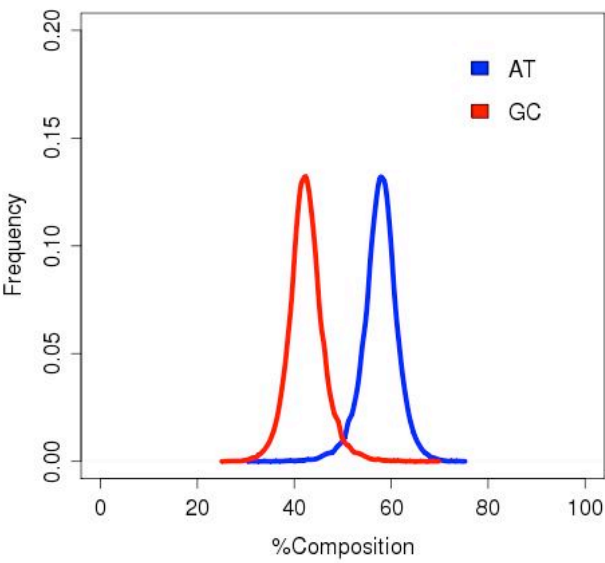
SQL/ERG1



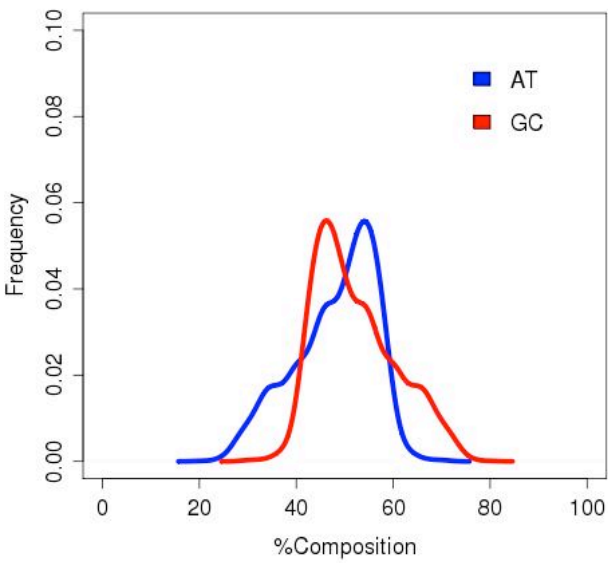
TPS21



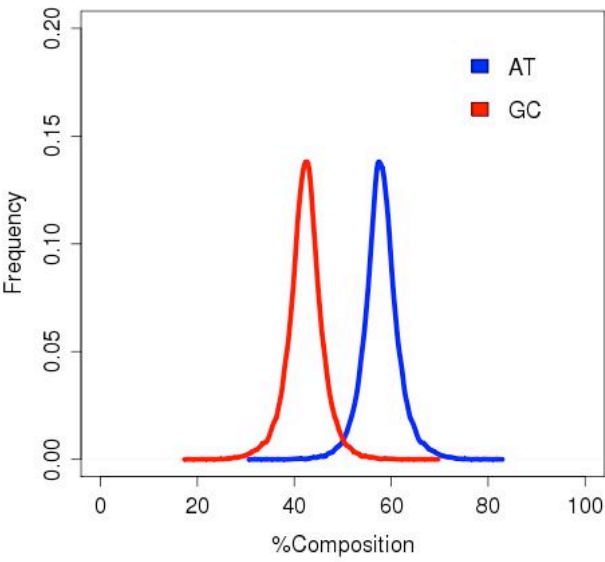
**Figure S8**  
Transcriptome:  
**a** Neem



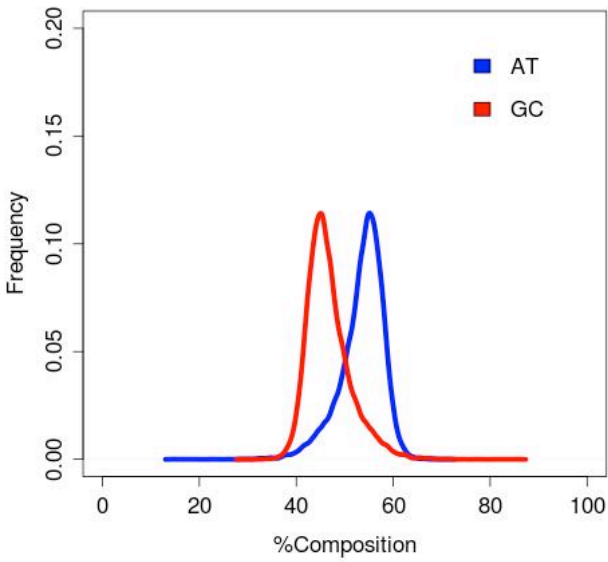
**b** Rice



**c** Arabidopsis

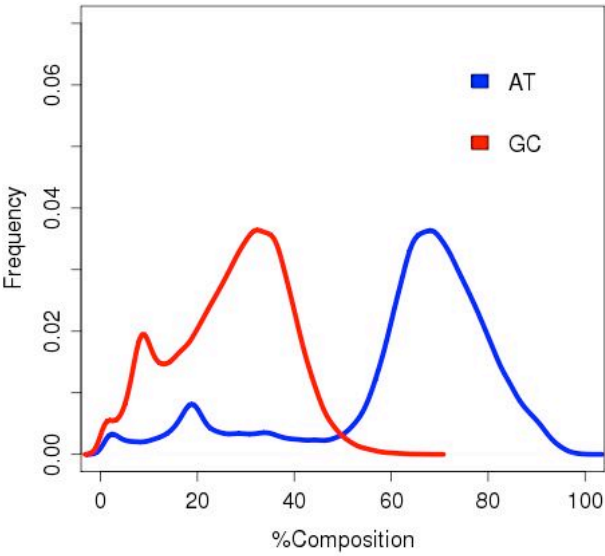


**d** Grape

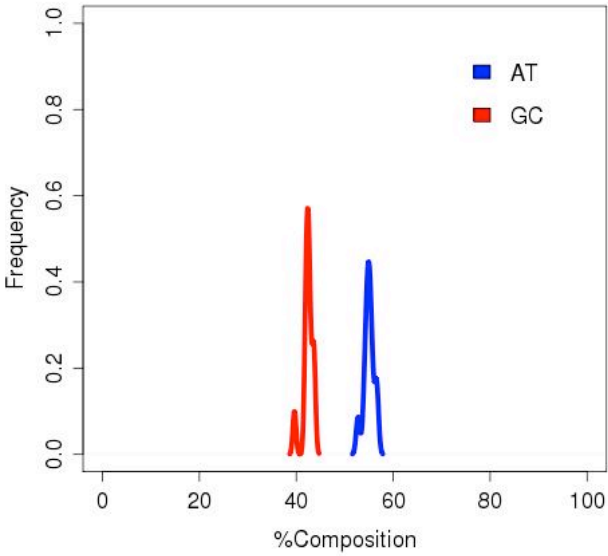




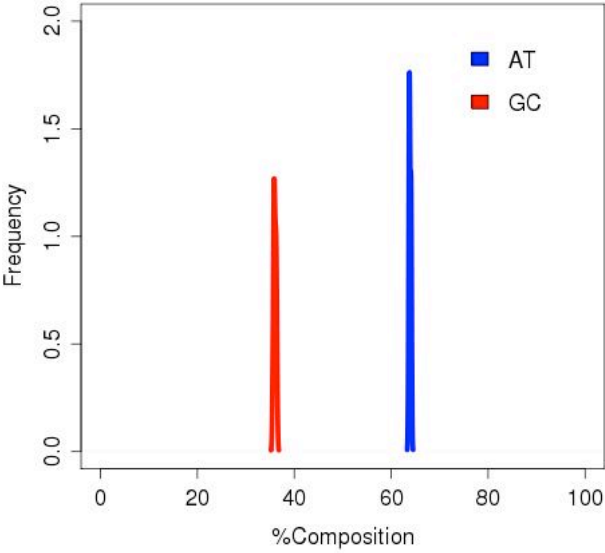
Genome:  
**e** Neem



**f** Rice



**g** Arabidopsis



**h** Grape

