

## Supplementary Materials

The boosted words for each category can be inputted as phrases, but they are parsed as individual words.

### Genetics/Genomics:

Karyotype  
ploidy  
gene dosage  
essential  
redundant redundancy  
duplication  
complementation  
suppression  
enhancer  
mosaic  
mutation  
genomics  
gene structure  
classification  
repeated motif  
families  
superfamily  
transposon  
transposable element  
mitochondrial  
repetitive DNA  
repeat families  
functional genomic data  
homolog  
noncoding  
coding  
map  
ortholog  
region  
evolving  
developmentally  
sequence  
complex expression pattern  
repress  
chromosome  
protein  
predicted  
amino acid  
site

### Cell Biology:

Transcription mechanism  
transcriptional regulation  
DNA repair  
alternative splicing  
trans-splicing operon  
trans splicing

pre-messenger RNA  
snRNP  
snRNA  
pre-mRNA  
RNAi mechanisms  
RNA interference  
double stranded  
double-stranded  
microRNA  
regulate translation  
mRNA decay  
ubiquitin  
degradation  
RNA binding protein  
oxidation reduction  
NADPH  
enzyme activity  
DNA damage  
inducing expression  
overexpression  
polypeptide  
catalyst  
protease  
proteolytic  
binding domain  
noncoding  
coding  
translate  
tumor suppressor  
reading frame  
primer  
misfolded  
structure

## **Molecular Biology:**

division  
fusion  
cuticle  
basement membrane  
intracellular trafficking  
cytoskeleton  
extracellular matrix  
cadherin superfamily  
gap junctions  
microtubule  
kinetochore  
anaphase  
prophase  
metaphase  
telophase  
cytokinesis  
dynein  
kinesin  
sperm motility  
filament

myosin  
intermediate filament  
sarcomere assembly  
actinin  
mitosis  
meiosis  
chromatin  
nucleus  
nuclear envelope  
protease  
organelle  
cytoplasm  
proteoglycan  
transglutaminase  
calcium  
enzyme activity  
oxidation reduction  
mitochondrial  
heparan sulfate  
oxidation reduction  
NADPH  
tumor suppressor  
disulfide isomerase  
lamina  
lamin  
laminan  
titin  
vesicle  
vesicular  
oxidative stress  
homeostasis  
atpase

### **Sex Determination:**

sex determination  
male female development  
hermaphrodite  
fate specification  
anchor  
vulva precursor  
somatic  
germline germ  
evolution  
x chromosome dosage compensation  
x-linked  
lateral signal  
lin-12 notch  
progeny  
xx  
xo  
larvae l1 l2 l3 l4 stage  
hox  
vulval induction  
self-fertile fertile

## **Developmental Control Mechanisms:**

developmental control  
asymmetric cell division  
axis formation  
embryo  
larva  
stage  
translational control maternal RNA  
gastrulation  
epidermal morphogenesis  
organogenesis  
organ formation  
embryological variation  
programmed cell death  
apoptosis  
E cell specification  
notch signal  
blastomere  
endoderm  
mesoderm

## **Signal Transduction:**

Map kinase signaling  
mek  
mapk  
rtk  
mitogen  
calcium  
calmodulin  
ras  
receptor tyrosine kinase  
kinase  
transforming growth factor  
tgf  
Lin-12 notch  
Wnt signal  
Chemoreceptor families  
Heterotrimeric g-proteins  
gtpase  
nuclear hormone receptor  
immune response  
hedgehog signaling network  
nuclear localization  
cascade  
pathway  
ligands  
specificity  
downstream effector  
atp

## **Neurobiology and Behavior:**

neurobiology

behavior  
axon  
nervous system  
synapse  
acetylcholine  
potassium calcium channel  
synaptic function  
GABA  
glutamate receptor  
monoamine  
neuropeptide  
neurotransmitter  
ethanol  
locomotion  
mating behavior  
egg-laying behavior  
defecation  
aggregation  
chemosensation  
mechanosensation  
neurodegeneration  
neuronal disease  
neuron  
associative learning  
serotonin  
olfactory learning  
neuroregeneration

## **Nematode Evolution and Ecology:**

Evolution  
ecology  
parasite  
nematode diversity  
nematode phylogeny  
phylogenetic relationships  
Rhabditid  
genome evolution  
evolution of development  
natural variation  
bacteria  
ecology  
microbial pathogens  
population  
pleiotropy  
mutation rate  
aging  
life span  
fitness cost  
random  
body size  
ploidy  
oxygen regulator tension

## **WormMethods:**

forward genetics  
mapping  
genetic markers  
compound mutants  
suppressor mutations  
synthetic enhancer mutations  
epistasis  
mosaic analysis  
maintenance  
genetic balancers  
reverse genetics  
RNAi methods  
injection  
soaking  
agar plates  
liquid culture  
mutant libraries  
knockouts  
visualizing  
protein interactions  
culture medium  
reporter gene fusion  
in situ hybridization  
dna microarray  
transformation  
microinjection  
RNA interference  
transgenic strain  
assay conditions  
blot  
functional genomics  
lab technique  
ideal organism  
model organism  
toxicity test toxic  
deletion mutagenesis  
living dead distinguishing nematode  
dye  
axenic culture  
growth supplement  
indefinite cultivation  
prolong  
control  
surgery  
neurosurgery  
cloning vector