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WormQTL(HD)-a web database for linking human disease to natural variation data in *C. elegans*

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Supplementary Table S1. Top 100 results for the ‘broad sweep’ disease enrichment.

<i>Phenotype₁</i> (Ce)	<i>Phenotype₂</i> (Hs)	<i>n₁</i>	<i>n₂</i>	<i>k</i>	<i>P</i> value
peroxisome physiology variant	Zellweger syndrome, 214100 (3) [OMIM]	3	4	3	3.58E-10
coenzyme Q depleted	Coenzyme Q10 deficiency, 607426 (3) [OMIM]	9	3	3	7.53E-09
spontaneous mutation rate increased	Mismatch repair cancer syndrome, 276300 (3) [OMIM]	42	4	4	9.88E-09
mitochondrial metabolism variant	Coenzyme Q10 deficiency, 607426 (3) [OMIM]	17	3	3	6.09E-08
AWA odorant chemotaxis defective	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	3	2	2	3.64E-07
peroxisome physiology variant	Adrenoleukodystrophy, neonatal, 202370 (3) [OMIM]	3	3	2	1.09E-06
AWC odorant chemotaxis defective	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	5	2	2	1.21E-06
germ nuclei rachis	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	6	2	2	1.82E-06
excretory cell development variant	Rheumatoid arthritis [GWAS Catalog]	3	5	2	3.64E-06
bacterially unswollen	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	11	2	2	6.67E-06
organism starvation response variant	Ovarian cancer, somatic, 604370 (3) [OMIM]	12	2	2	8.00E-06
neuron development variant	Diastolic blood pressure [GWAS Catalog]	17	11	3	9.85E-06
ventral closure defective	Wiskott-Aldrich syndrome [DGA]	8	3	2	1.02E-05
egg laying imipramine resistant	Bone mineral density [GWAS Catalog]	26	23	4	1.08E-05
mRNA export variant	disease by infectious agent [DGA]	4	6	2	1.09E-05
constipated	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	14	2	2	1.10E-05
neuron development variant	Blood Pressure [GWAS Central]	17	12	3	1.31E-05
reproductive system development variant	Palmitoleic acid (16:1n-7) plasma levels [GWAS Catalog]	6	5	2	1.82E-05
germ cell morphology variant	Wiskott-Aldrich syndrome [DGA]	112	3	3	2.04E-05
life span variant	Coenzyme Q10 deficiency, 607426 (3) [OMIM]	114	3	3	2.15E-05
organism starvation response variant	Colorectal cancer, somatic, 114500 (3) [OMIM]	12	3	2	2.40E-05
gastrulation variant	vaccinia [DGA]	21	2	2	2.55E-05
neuron development variant	Blood pressure [GWAS Catalog]	17	15	3	2.69E-05
epithelial morphology variant	Wiskott-Aldrich syndrome [DGA]	13	3	2	2.83E-05
osmotic stress response variant	Chronic obstructive pulmonary disease [GWAS Catalog]	13	3	2	2.83E-05
radiation induced reproductive cell death variant	Mismatch repair cancer syndrome, 276300 (3) [OMIM]	10	4	2	3.26E-05
distal tip cell development variant	Pulmonary function (interaction) [GWAS Catalog]	6	7	2	3.81E-05
dauer arrest variant	Ovarian cancer, somatic, 604370 (3) [OMIM]	26	2	2	3.94E-05
bag of worms	Heart Rate [GWAS Central]	29	2	2	4.92E-05
halothane hypersensitive	Leigh syndrome, 256000 (3) [OMIM]	6	8	2	5.07E-05
vulvaless	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	30	2	2	5.27E-05
transgene expression variant	Pulmonary function (interaction) [GWAS Catalog]	147	7	4	5.30E-05
sodium chloride chemotaxis defective	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	31	2	2	5.64E-05
synaptogenesis variant	Hippocampal atrophy [GWAS Catalog]	13	4	2	5.65E-05
body size variant	Inflammatory bowel disease [GWAS Catalog]	11	30	3	5.77E-05
gastrulation variant	Wiskott-Aldrich syndrome [DGA]	21	3	2	7.61E-05
pathogen susceptibility increased	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	36	2	2	7.64E-05
level of protein expression variant	hepatitis B [DGA]	39	2	2	8.98E-05
male gonad morphology variant	Bone mineral density [GWAS Catalog]	3	23	2	9.17E-05
flaccid	Electrocardiographic traits [GWAS Catalog]	13	5	2	9.41E-05
paraquat resistant	Ovarian cancer, somatic, 604370 (3) [OMIM]	41	2	2	9.94E-05
reproductive system development variant	Metabolic traits [GWAS Catalog]	6	11	2	9.94E-05
spontaneous mutation rate increased	Muir-Torre syndrome, 158320 (3) [OMIM]	42	2	2	1.04E-04
dauer formation variant	Ovarian cancer, somatic, 604370 (3) [OMIM]	43	2	2	1.09E-04
dauer arrest variant	Colorectal cancer, somatic, 114500 (3) [OMIM]	26	3	2	1.18E-04
loss of asymmetry ASE	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	47	2	2	1.31E-04
large cytoplasmic granules early emb	Eye Color [GWAS Central]	28	3	2	1.37E-04
gonad sheath contraction rate reduced	Systolic blood pressure [GWAS Catalog]	7	11	2	1.39E-04
osmotic stress response variant	Sudden cardiac arrest [GWAS Catalog]	13	6	2	1.41E-04
male tail morphology variant	substance dependence [DGA]	29	3	2	1.47E-04
dauer constitutive	Ovarian cancer, somatic, 604370 (3) [OMIM]	50	2	2	1.49E-04

excessive blebbing early emb	Eye Color [GWAS Central]	30	3	2	1.57E-04
nucleus reforms cell division	lymphoma [DGA]	14	6	2	1.64E-04
remnant early emb					
egg laying variant	Body mass index (interaction) [GWAS Catalog]	228	3	3	1.75E-04
cell polarity reversed	Bone mineral density [GWAS Catalog]	4	23	2	1.83E-04
nuclear positioning variant	hepatitis [DGA]	18	5	2	1.84E-04
alae variant	Immune reponse to smallpox (secreted IFN-alpha) [GWAS Catalog]	11	8	2	1.85E-04
habituation variant	Asthma [GWAS Catalog]	15	6	2	1.89E-04
age associated fluorescence increased	narcolepsy [DGA]	57	2	2	1.94E-04
pharyngeal development variant	PR interval [GWAS Catalog]	24	4	2	1.99E-04
movement variant	Acute lymphoblastic leukemia (childhood) [GWAS Catalog]	19	5	2	2.06E-04
miRNA expression variant	Type 2 diabetes [GWAS Catalog]	50	25	4	2.12E-04
hypoxia hypersensitive	Mismatch repair cancer syndrome, 276300 (3) [OMIM]	25	4	2	2.17E-04
P0 spindle rotation failure early emb	Colitis, Ulcerative [GWAS Central]	9	11	2	2.38E-04
paralyzed body	Dyssegmental dysplasia, Silverman-Handmaker type, 224410 (3) [OMIM]	1	1	1	2.46E-04
protein phosphorylation increased	glioma [DGA]	21	5	2	2.52E-04
transgene expression variant	Red blood cell traits [GWAS Catalog]	147	17	5	2.52E-04
anaphase bridging	lymphoma [DGA]	18	6	2	2.75E-04
body wall muscle morphology variant	Response to antidepressant treatment [GWAS Catalog]	22	5	2	2.77E-04
coelomocyte uptake defective	Peters anomaly, 604229 (3) [OMIM]	70	2	2	2.93E-04
paraquat resistant	Colorectal cancer, somatic, 114500 (3) [OMIM]	41	3	2	2.96E-04
HSN migration variant	Bone mineral density [GWAS Catalog]	24	23	3	2.97E-04
small	Leukoencephalopathy with vanishing white matter, 603896 (3) [OMIM]	174	4	3	2.99E-04
embryo osmotic integrity defective early emb	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	71	2	2	3.01E-04
endomitotic oocytes	glioma [DGA]	23	5	2	3.04E-04
egg laying defective	Bone mineral density [GWAS Catalog]	174	23	6	3.11E-04
dauer formation variant	Colorectal cancer, somatic, 114500 (3) [OMIM]	43	3	2	3.26E-04
P0 spindle rotation delayed early emb	Platelet counts [GWAS Catalog]	6	20	2	3.41E-04
drug induced gene expression variant	Ventricular conduction [GWAS Catalog]	10	12	2	3.55E-04
multiple nuclei oocyte	Cholesterol [GWAS Central]	45	3	2	3.58E-04
extended life span	Leigh syndrome, 256000 (3) [OMIM]	206	8	4	3.83E-04
short	Palmitoleic acid (16:1n-7) plasma levels [GWAS Catalog]	26	5	2	3.89E-04
lipid composition variant	Urate levels [GWAS Catalog]	9	14	2	3.92E-04
fat content increased	Ovarian cancer, somatic, 604370 (3) [OMIM]	81	2	2	3.93E-04
fewer germ cells	Mean corpuscular hemoglobin [GWAS Catalog]	34	4	2	4.04E-04
oogenesis variant	rheumatoid arthritis [DGA]	83	2	2	4.13E-04
oocyte number decreased	Cholesterol, LDL [GWAS Central]	194	4	3	4.14E-04
germ cell compartment anucleate	Cardiofaciocutaneous syndrome, 115150 (3) [OMIM]	84	2	2	4.23E-04
early larval lethal	kidney disease [DGA]	85	2	2	4.33E-04
dauer constitutive	Colorectal cancer, somatic, 114500 (3) [OMIM]	50	3	2	4.42E-04
transgene expression variant	Systolic blood pressure [GWAS Catalog]	147	11	4	4.46E-04
sex determination variant	Bone mineral density [GWAS Catalog]	6	23	2	4.54E-04
body wall muscle thick filament variant	Atrial septal defect 3 (3) [OMIM]	2	1	1	4.92E-04
response to injury variant	Ulcerative colitis [GWAS Catalog]	6	24	2	4.95E-04
diplotene progression during oogenesis variant	Response to Vitamin E supplementation [GWAS Catalog]	38	4	2	5.05E-04
osmotic stress response variant	Systolic blood pressure [GWAS Catalog]	13	11	2	5.12E-04
male tail morphology variant	Bone mineral density [GWAS Catalog]	29	23	3	5.27E-04
anchor cell invasion variant	Attention deficit hyperactivity disorder [GWAS Catalog]	57	12	3	5.27E-04
exploded through vulva	Bone mineral density [GWAS Catalog]	277	23	7	6.03E-04
antimicrobial gene expression variant	Ventricular conduction [GWAS Catalog]	13	12	2	6.13E-04