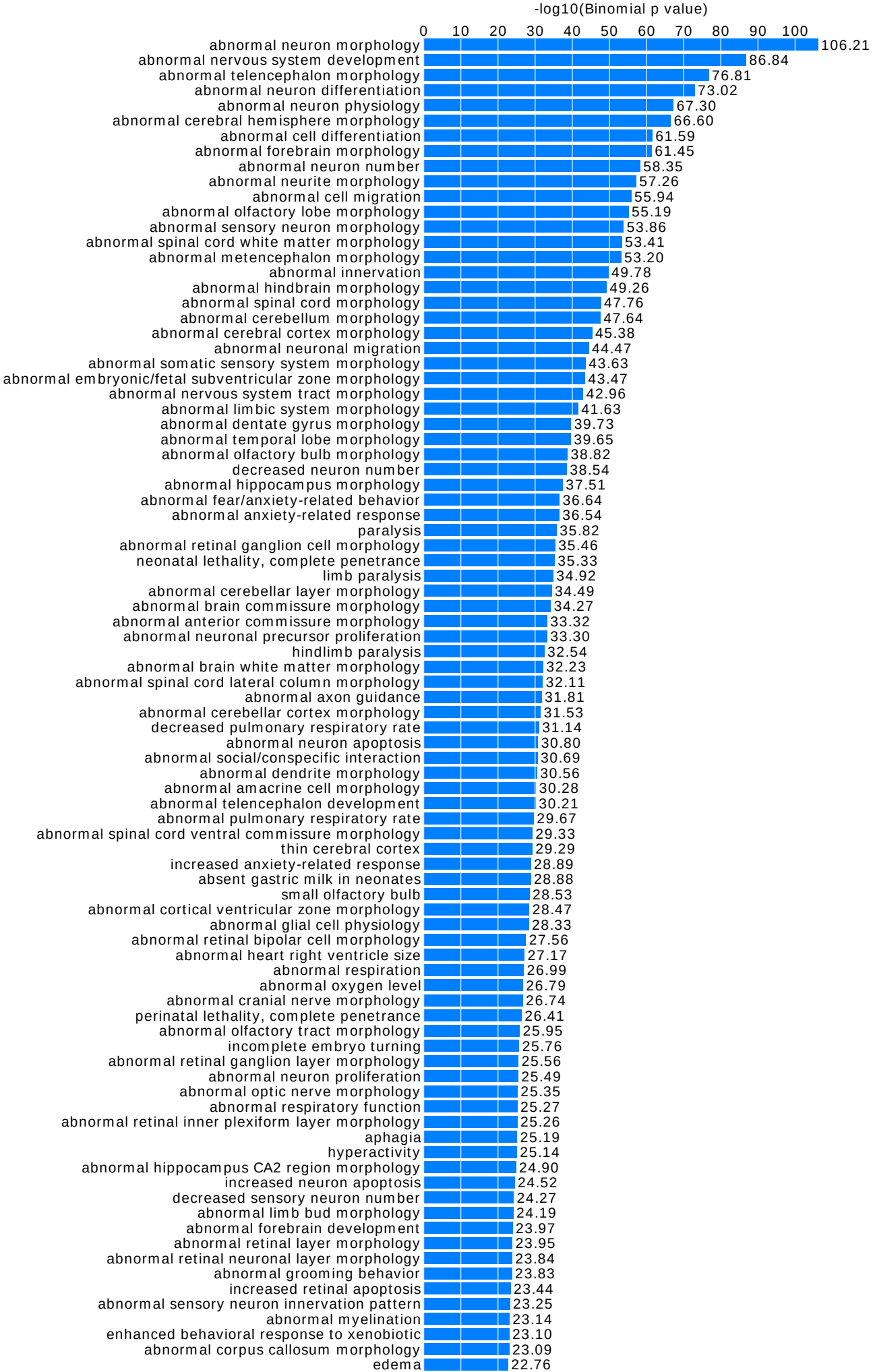
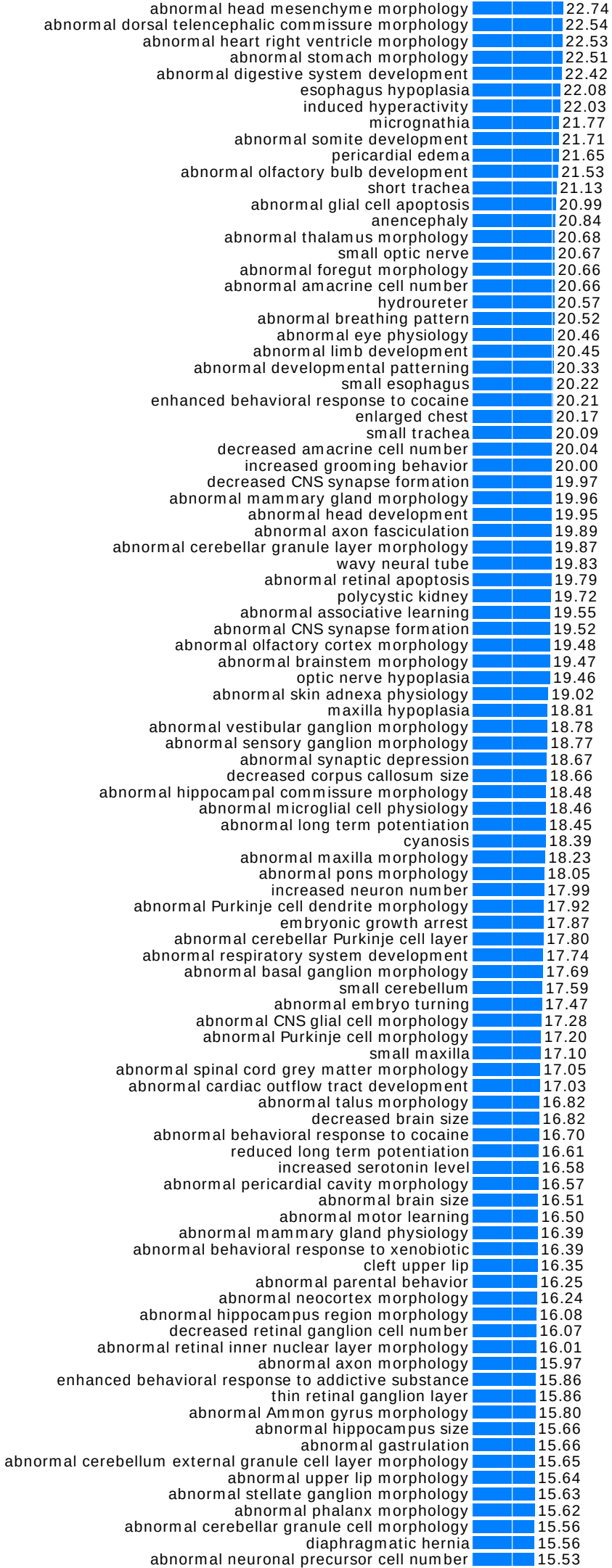
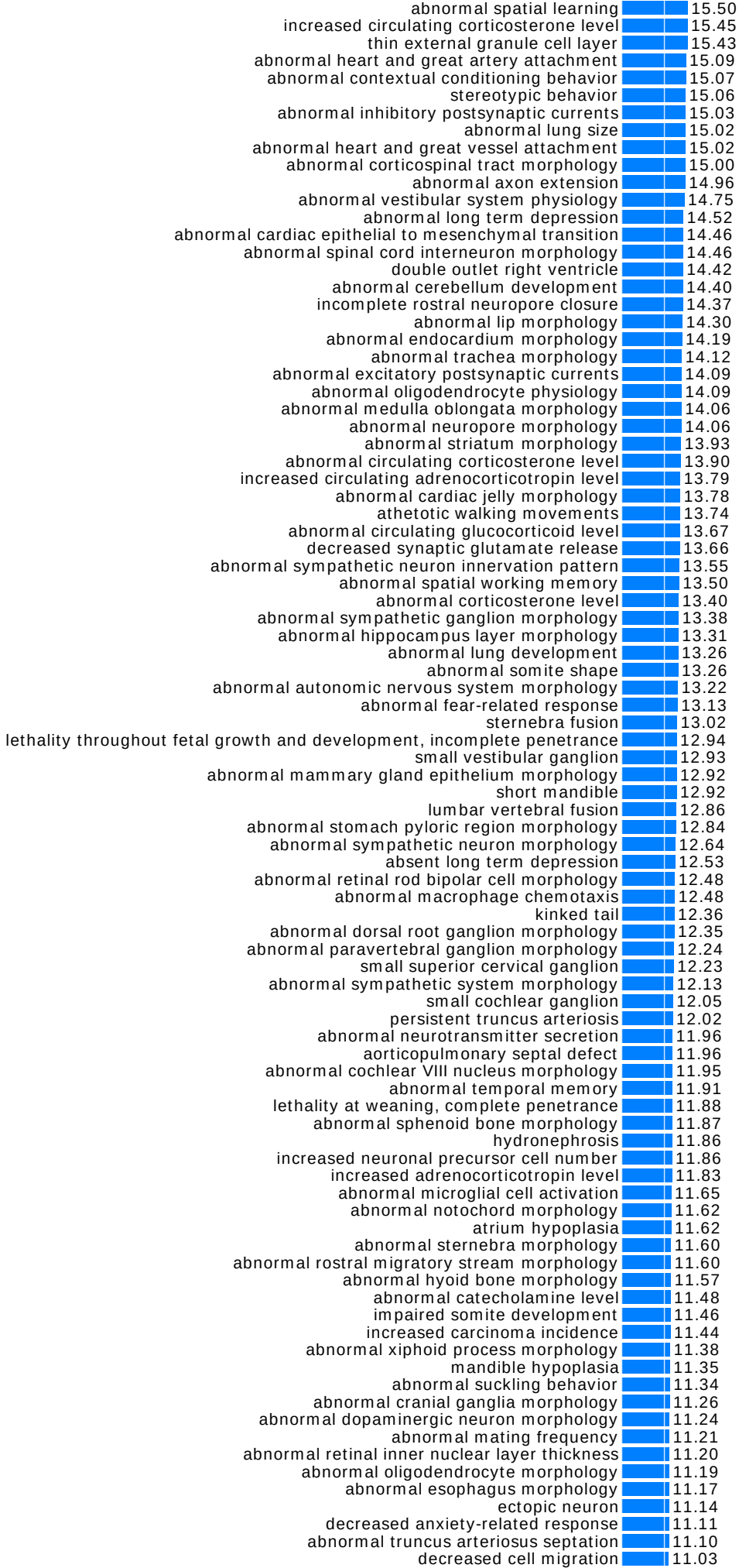
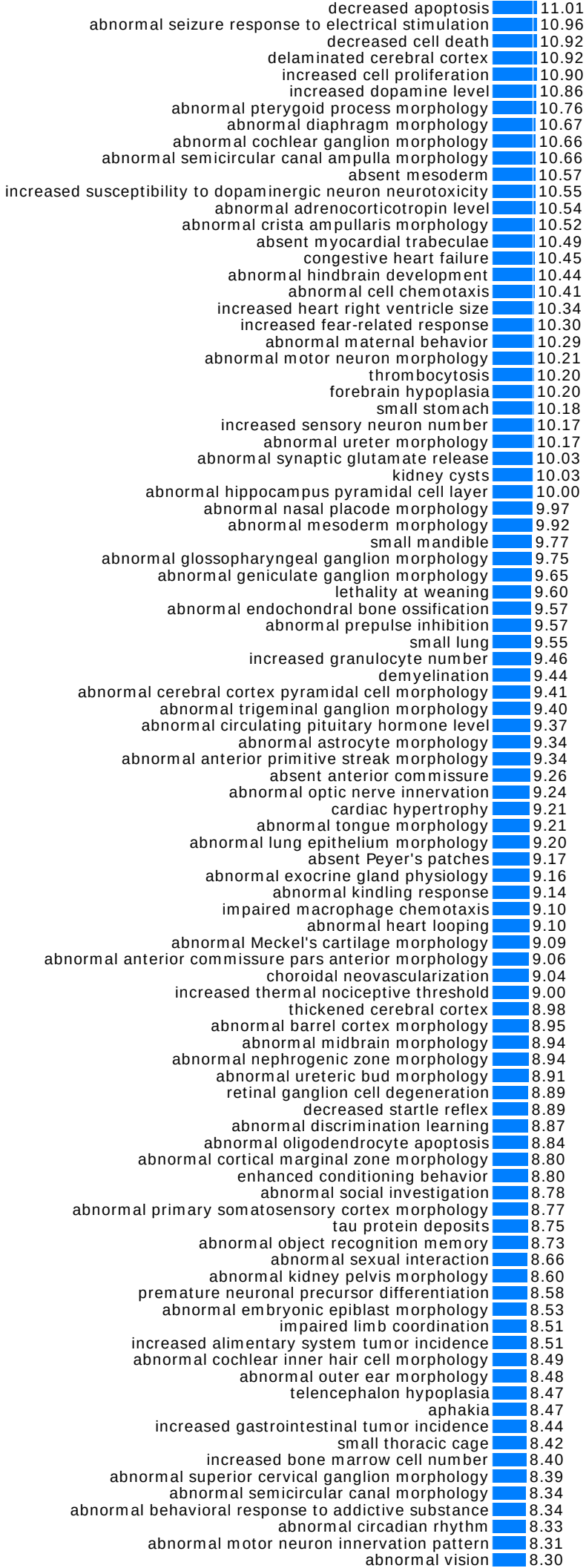
Job ID: 20230131-public-4.0.4-AvDHHe
Display name: user-provided data

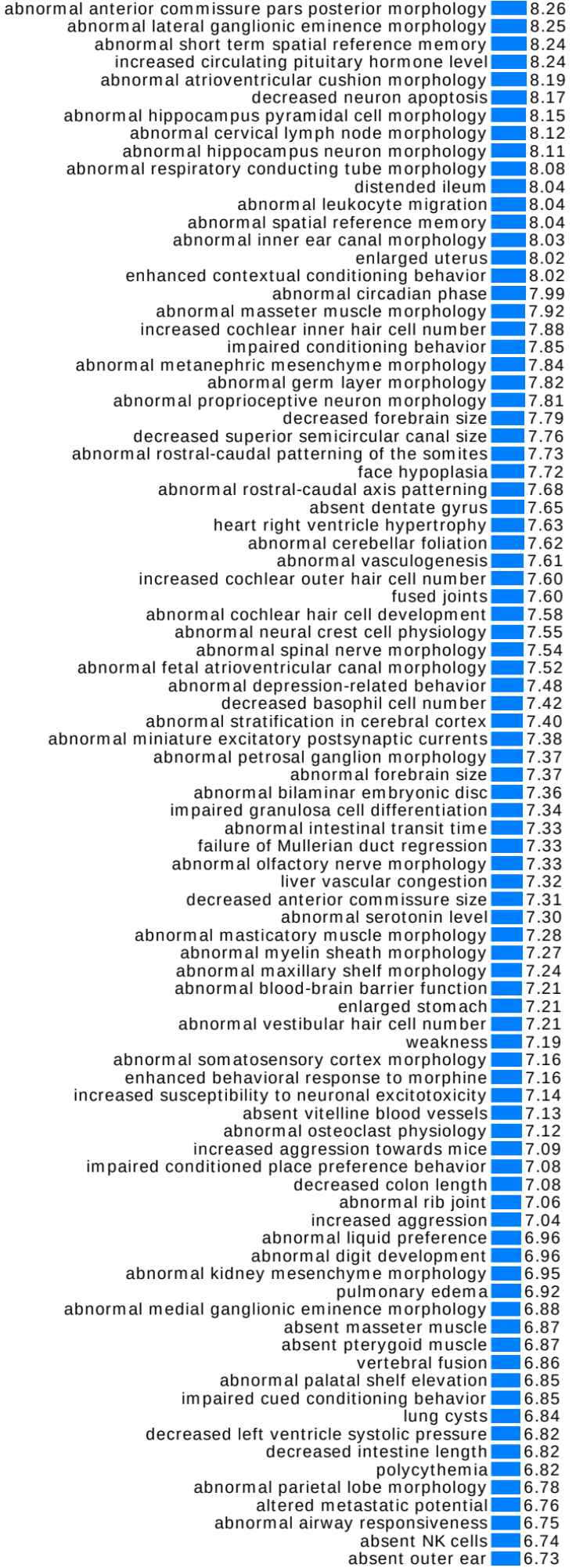
Mouse Phenotype

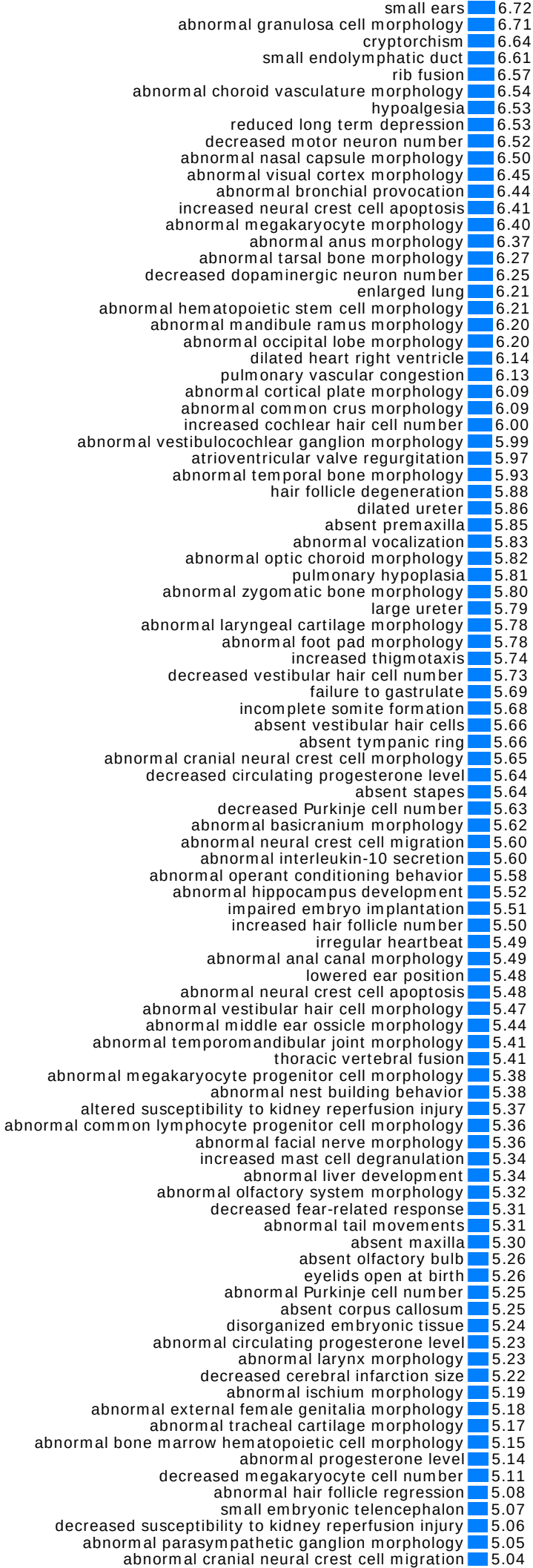


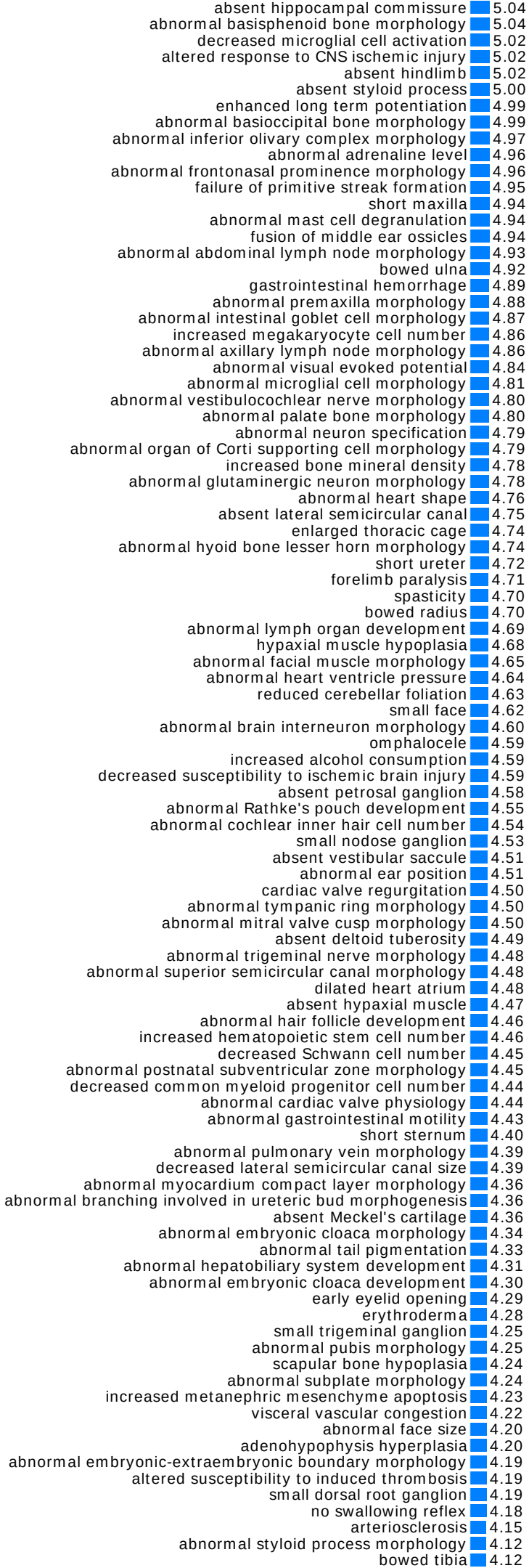

abnormal head mesenchyme morphology 22.74
abnormal dorsal telencephalic commissure morphology 22.54
abnormal heart right ventricle morphology 22.53
abnormal stomach morphology 22.51
abnormal digestive system development 22.42
esophagus hypoplasia 22.08
induced hyperactivity 22.03
micrognathia 21.77
abnormal somite development 21.71
pericardial edema 21.65
abnormal olfactory bulb development 21.53
short trachea 21.13
abnormal glial cell apoptosis 20.99
anencephaly 20.84
abnormal thalamus morphology 20.68
small optic nerve 20.67
abnormal foregut morphology 20.66
abnormal amacrine cell number 20.66
hydroureter 20.57
abnormal breathing pattern 20.52
abnormal eye physiology 20.46
abnormal limb development 20.45
abnormal developmental patterning 20.33
small esophagus 20.22
enhanced behavioral response to cocaine 20.21
enlarged chest 20.17
small trachea 20.09
decreased amacrine cell number 20.04
increased grooming behavior 20.00
decreased CNS synapse formation 19.97
abnormal mammary gland morphology 19.96
abnormal head development 19.95
abnormal axon fasciculation 19.89
abnormal cerebellar granule layer morphology 19.87
wavy neural tube 19.83
abnormal retinal apoptosis 19.79
polycystic kidney 19.72
abnormal associative learning 19.55
abnormal CNS synapse formation 19.52
abnormal olfactory cortex morphology 19.48
abnormal brainstem morphology 19.47
optic nerve hypoplasia 19.46
abnormal skin adnexa physiology 19.02
maxilla hypoplasia 18.81
abnormal vestibular ganglion morphology 18.78
abnormal sensory ganglion morphology 18.77
abnormal synaptic depression 18.67
decreased corpus callosum size 18.66
abnormal hippocampal commissure morphology 18.48
abnormal microglial cell physiology 18.46
abnormal long term potentiation 18.45
cyanosis 18.39
abnormal maxilla morphology 18.23
abnormal pons morphology 18.05
increased neuron number 17.99
abnormal Purkinje cell dendrite morphology 17.92
embryonic growth arrest 17.87
abnormal cerebellar Purkinje cell layer 17.80
abnormal respiratory system development 17.74
abnormal basal ganglion morphology 17.69
small cerebellum 17.59
abnormal embryo turning 17.47
abnormal CNS glial cell morphology 17.28
abnormal Purkinje cell morphology 17.20
small maxilla 17.10
abnormal spinal cord grey matter morphology 17.05
abnormal cardiac outflow tract development 17.03
abnormal talus morphology 16.82
decreased brain size 16.82
abnormal behavioral response to cocaine 16.70
reduced long term potentiation 16.61
increased serotonin level 16.58
abnormal pericardial cavity morphology 16.57
abnormal brain size 16.51
abnormal motor learning 16.50
abnormal mammary gland physiology 16.39
abnormal behavioral response to xenobiotic 16.39
cleft upper lip 16.35
abnormal parental behavior 16.25
abnormal neocortex morphology 16.24
abnormal hippocampus region morphology 16.08
decreased retinal ganglion cell number 16.07
abnormal retinal inner nuclear layer morphology 16.01
abnormal axon morphology 15.97
enhanced behavioral response to addictive substance 15.86
thin retinal ganglion layer 15.86
abnormal Ammon gyrus morphology 15.80
abnormal hippocampus size 15.66
abnormal gastrulation 15.66
abnormal cerebellum external granule cell layer morphology 15.65
abnormal upper lip morphology 15.64
abnormal stellate ganglion morphology 15.63
abnormal phalanx morphology 15.62
abnormal cerebellar granule cell morphology 15.56
diaphragmatic hernia 15.56
abnormal neuronal precursor cell number 15.53

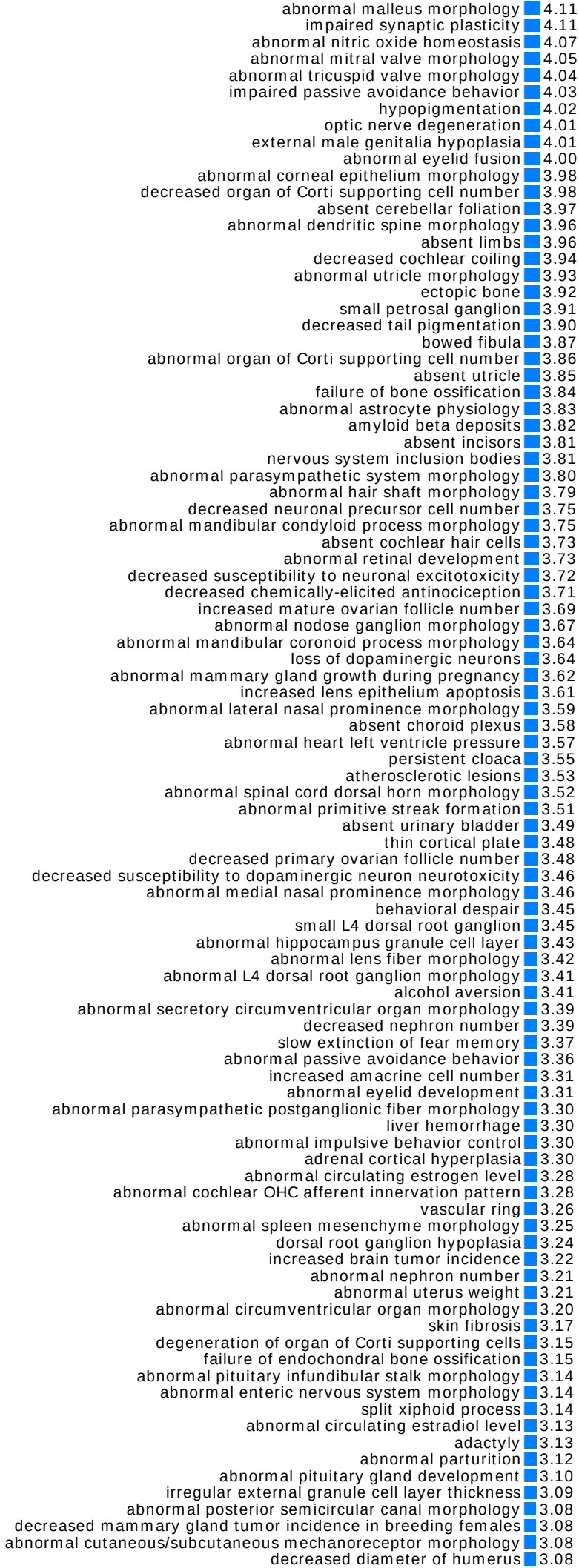

abnormal spatial learning 15.50
increased circulating corticosterone level 15.45
thin external granule cell layer 15.43
abnormal heart and great artery attachment 15.09
abnormal contextual conditioning behavior 15.07
stereotypic behavior 15.06
abnormal inhibitory postsynaptic currents 15.03
abnormal lung size 15.02
abnormal heart and great vessel attachment 15.02
abnormal corticospinal tract morphology 15.00
abnormal axon extension 14.96
abnormal vestibular system physiology 14.75
abnormal long term depression 14.52
abnormal cardiac epithelial to mesenchymal transition 14.46
abnormal spinal cord interneuron morphology 14.46
double outlet right ventricle 14.42
abnormal cerebellum development 14.40
incomplete rostral neuropore closure 14.37
abnormal lip morphology 14.30
abnormal endocardium morphology 14.19
abnormal trachea morphology 14.12
abnormal excitatory postsynaptic currents 14.09
abnormal oligodendrocyte physiology 14.09
abnormal medulla oblongata morphology 14.06
abnormal neuropore morphology 14.06
abnormal striatum morphology 13.93
abnormal circulating corticosterone level 13.90
increased circulating adrenocorticotropin level 13.79
abnormal cardiac jelly morphology 13.78
athetotic walking movements 13.74
abnormal circulating glucocorticoid level 13.67
decreased synaptic glutamate release 13.66
abnormal sympathetic neuron innervation pattern 13.55
abnormal spatial working memory 13.50
abnormal corticosterone level 13.40
abnormal sympathetic ganglion morphology 13.38
abnormal hippocampus layer morphology 13.31
abnormal lung development 13.26
abnormal somite shape 13.26
abnormal autonomic nervous system morphology 13.22
abnormal fear-related response 13.13
sternebra fusion 13.02
lethality throughout fetal growth and development, incomplete penetrance 12.94
small vestibular ganglion 12.93
abnormal mammary gland epithelium morphology 12.92
short mandible 12.92
lumbar vertebral fusion 12.86
abnormal stomach pyloric region morphology 12.84
abnormal sympathetic neuron morphology 12.64
absent long term depression 12.53
abnormal retinal rod bipolar cell morphology 12.48
abnormal macrophage chemotaxis 12.48
kinked tail 12.36
abnormal dorsal root ganglion morphology 12.35
abnormal paravertebral ganglion morphology 12.24
small superior cervical ganglion 12.23
abnormal sympathetic system morphology 12.13
small cochlear ganglion 12.05
persistent truncus arteriosis 12.02
abnormal neurotransmitter secretion 11.96
aorticopulmonary septal defect 11.96
abnormal cochlear VIII nucleus morphology 11.95
abnormal temporal memory 11.91
lethality at weaning, complete penetrance 11.88
abnormal sphenoid bone morphology 11.87
hydronephrosis 11.86
increased neuronal precursor cell number 11.86
increased adrenocorticotropin level 11.83
abnormal microglial cell activation 11.65
abnormal notochord morphology 11.62
atrium hypoplasia 11.62
abnormal sternebra morphology 11.60
abnormal rostral migratory stream morphology 11.60
abnormal hyoid bone morphology 11.57
abnormal catecholamine level 11.48
impaired somite development 11.46
increased carcinoma incidence 11.44
abnormal xiphoid process morphology 11.38
mandible hypoplasia 11.35
abnormal suckling behavior 11.34
abnormal cranial ganglia morphology 11.26
abnormal dopaminergic neuron morphology 11.24
abnormal mating frequency 11.21
abnormal retinal inner nuclear layer thickness 11.20
abnormal oligodendrocyte morphology 11.19
abnormal esophagus morphology 11.17
ectopic neuron 11.14
decreased anxiety-related response 11.11
abnormal truncus arteriosus septation 11.10
decreased cell migration 11.03

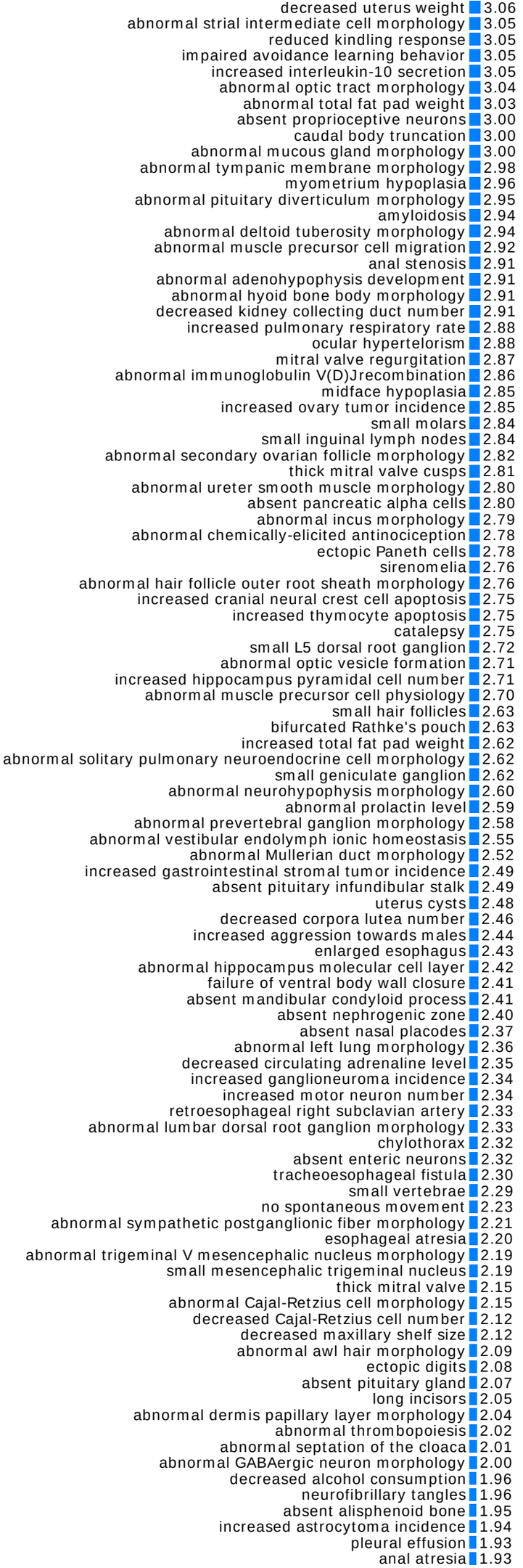

decreased apoptosis 11.01
abnormal seizure response to electrical stimulation 10.96
decreased cell death 10.92
delaminated cerebral cortex 10.92
increased cell proliferation 10.90
increased dopamine level 10.86
abnormal pterygoid process morphology 10.76
abnormal diaphragm morphology 10.67
abnormal cochlear ganglion morphology 10.66
abnormal semicircular canal ampulla morphology 10.66
absent mesoderm 10.57
increased susceptibility to dopaminergic neuron neurotoxicity 10.55
abnormal adrenocorticotropin level 10.54
abnormal crista ampullaris morphology 10.52
absent myocardial trabeculae 10.49
congestive heart failure 10.45
abnormal hindbrain development 10.44
abnormal cell chemotaxis 10.41
increased heart right ventricle size 10.34
increased fear-related response 10.30
abnormal maternal behavior 10.29
abnormal motor neuron morphology 10.21
thrombocytosis 10.20
forebrain hypoplasia 10.20
small stomach 10.18
increased sensory neuron number 10.17
abnormal ureter morphology 10.17
abnormal synaptic glutamate release 10.03
kidney cysts 10.03
abnormal hippocampus pyramidal cell layer 10.00
abnormal nasal placode morphology 9.97
abnormal mesoderm morphology 9.92
small mandible 9.77
abnormal glossopharyngeal ganglion morphology 9.75
abnormal geniculate ganglion morphology 9.65
lethality at weaning 9.60
abnormal endochondral bone ossification 9.57
abnormal prepulse inhibition 9.57
small lung 9.55
increased granulocyte number 9.46
demyelination 9.44
abnormal cerebral cortex pyramidal cell morphology 9.41
abnormal trigeminal ganglion morphology 9.40
abnormal circulating pituitary hormone level 9.37
abnormal astrocyte morphology 9.34
abnormal anterior primitive streak morphology 9.34
absent anterior commissure 9.26
abnormal optic nerve innervation 9.24
cardiac hypertrophy 9.21
abnormal tongue morphology 9.21
abnormal lung epithelium morphology 9.20
absent Peyer's patches 9.17
abnormal exocrine gland physiology 9.16
abnormal kindling response 9.14
impaired macrophage chemotaxis 9.10
abnormal heart looping 9.10
abnormal Meckel's cartilage morphology 9.09
abnormal anterior commissure pars anterior morphology 9.06
choroidal neovascularization 9.04
increased thermal nociceptive threshold 9.00
thickened cerebral cortex 8.98
abnormal barrel cortex morphology 8.95
abnormal midbrain morphology 8.94
abnormal nephrogenic zone morphology 8.94
abnormal ureteric bud morphology 8.91
retinal ganglion cell degeneration 8.89
decreased startle reflex 8.89
abnormal discrimination learning 8.87
abnormal oligodendrocyte apoptosis 8.84
abnormal cortical marginal zone morphology 8.80
enhanced conditioning behavior 8.80
abnormal social investigation 8.78
abnormal primary somatosensory cortex morphology 8.77
tau protein deposits 8.75
abnormal object recognition memory 8.73
abnormal sexual interaction 8.66
abnormal kidney pelvis morphology 8.60
premature neuronal precursor differentiation 8.58
abnormal embryonic epiblast morphology 8.53
impaired limb coordination 8.51
increased alimentary system tumor incidence 8.51
abnormal cochlear inner hair cell morphology 8.49
abnormal outer ear morphology 8.48
telencephalon hypoplasia 8.47
aphakia 8.47
increased gastrointestinal tumor incidence 8.44
small thoracic cage 8.42
increased bone marrow cell number 8.40
abnormal superior cervical ganglion morphology 8.39
abnormal semicircular canal morphology 8.34
abnormal behavioral response to addictive substance 8.34
abnormal circadian rhythm 8.33
abnormal motor neuron innervation pattern 8.31
abnormal vision 8.30


abnormal anterior commissure pars posterior morphology 8.26
abnormal lateral ganglionic eminence morphology 8.25
abnormal short term spatial reference memory 8.24
increased circulating pituitary hormone level 8.24
abnormal atrioventricular cushion morphology 8.19
decreased neuron apoptosis 8.17
abnormal hippocampus pyramidal cell morphology 8.15
abnormal cervical lymph node morphology 8.12
abnormal hippocampus neuron morphology 8.11
abnormal respiratory conducting tube morphology 8.08
distended ileum 8.04
abnormal leukocyte migration 8.04
abnormal spatial reference memory 8.04
abnormal inner ear canal morphology 8.03
enlarged uterus 8.02
enhanced contextual conditioning behavior 8.02
abnormal circadian phase 7.99
abnormal masseter muscle morphology 7.92
increased cochlear inner hair cell number 7.88
impaired conditioning behavior 7.85
abnormal metanephric mesenchyme morphology 7.84
abnormal germ layer morphology 7.82
abnormal proprioceptive neuron morphology 7.81
decreased forebrain size 7.79
decreased superior semicircular canal size 7.76
abnormal rostral-caudal patterning of the somites 7.73
face hypoplasia 7.72
abnormal rostral-caudal axis patterning 7.68
absent dentate gyrus 7.65
heart right ventricle hypertrophy 7.63
abnormal cerebellar foliation 7.62
abnormal vasculogenesis 7.61
increased cochlear outer hair cell number 7.60
fused joints 7.60
abnormal cochlear hair cell development 7.58
abnormal neural crest cell physiology 7.55
abnormal spinal nerve morphology 7.54
abnormal fetal atrioventricular canal morphology 7.52
abnormal depression-related behavior 7.48
decreased basophil cell number 7.42
abnormal stratification in cerebral cortex 7.40
abnormal miniature excitatory postsynaptic currents 7.38
abnormal petrosal ganglion morphology 7.37
abnormal forebrain size 7.37
abnormal bilaminar embryonic disc 7.36
impaired granulosa cell differentiation 7.34
abnormal intestinal transit time 7.33
failure of Mullerian duct regression 7.33
abnormal olfactory nerve morphology 7.33
liver vascular congestion 7.32
decreased anterior commissure size 7.31
abnormal serotonin level 7.30
abnormal masticatory muscle morphology 7.28
abnormal myelin sheath morphology 7.27
abnormal maxillary shelf morphology 7.24
abnormal blood-brain barrier function 7.21
enlarged stomach 7.21
abnormal vestibular hair cell number 7.21
weakness 7.19
abnormal somatosensory cortex morphology 7.16
enhanced behavioral response to morphine 7.16
increased susceptibility to neuronal excitotoxicity 7.14
absent vitelline blood vessels 7.13
abnormal osteoclast physiology 7.12
increased aggression towards mice 7.09
impaired conditioned place preference behavior 7.08
decreased colon length 7.08
abnormal rib joint 7.06
increased aggression 7.04
abnormal liquid preference 6.96
abnormal digit development 6.96
abnormal kidney mesenchyme morphology 6.95
pulmonary edema 6.92
abnormal medial ganglionic eminence morphology 6.88
absent masseter muscle 6.87
absent pterygoid muscle 6.87
vertebral fusion 6.86
abnormal palatal shelf elevation 6.85
impaired cued conditioning behavior 6.85
lung cysts 6.84
decreased left ventricle systolic pressure 6.82
decreased intestine length 6.82
polycythemia 6.82
abnormal parietal lobe morphology 6.78
altered metastatic potential 6.76
abnormal airway responsiveness 6.75
absent NK cells 6.74
absent outer ear 6.73


small ears 6.72
abnormal granulosa cell morphology 6.71
cryptorchism 6.64
small endolymphatic duct 6.61
rib fusion 6.57
abnormal choroid vasculature morphology 6.54
hypoalgesia 6.53
reduced long term depression 6.53
decreased motor neuron number 6.52
abnormal nasal capsule morphology 6.50
abnormal visual cortex morphology 6.45
abnormal bronchial provocation 6.44
increased neural crest cell apoptosis 6.41
abnormal megakaryocyte morphology 6.40
abnormal anus morphology 6.37
abnormal tarsal bone morphology 6.27
decreased dopaminergic neuron number 6.25
enlarged lung 6.21
abnormal hematopoietic stem cell morphology 6.21
abnormal mandibule ramus morphology 6.20
abnormal occipital lobe morphology 6.20
dilated heart right ventricle 6.14
pulmonary vascular congestion 6.13
abnormal cortical plate morphology 6.09
abnormal common crus morphology 6.09
increased cochlear hair cell number 6.00
abnormal vestibulocochlear ganglion morphology 5.99
atrioventricular valve regurgitation 5.97
abnormal temporal bone morphology 5.93
hair follicle degeneration 5.88
dilated ureter 5.86
absent premaxilla 5.85
abnormal vocalization 5.83
abnormal optic choroid morphology 5.82
pulmonary hypoplasia 5.81
abnormal zygomatic bone morphology 5.80
large ureter 5.79
abnormal laryngeal cartilage morphology 5.78
abnormal foot pad morphology 5.78
increased thigmotaxis 5.74
decreased vestibular hair cell number 5.73
failure to gastrulate 5.69
incomplete somite formation 5.68
absent vestibular hair cells 5.66
absent tympanic ring 5.66
abnormal cranial neural crest cell morphology 5.65
decreased circulating progesterone level 5.64
absent stapes 5.64
decreased Purkinje cell number 5.63
abnormal basicranium morphology 5.62
abnormal neural crest cell migration 5.60
abnormal interleukin-10 secretion 5.60
abnormal operant conditioning behavior 5.58
abnormal hippocampus development 5.52
impaired embryo implantation 5.51
increased hair follicle number 5.50
irregular heartbeat 5.49
abnormal anal canal morphology 5.49
lowered ear position 5.48
abnormal neural crest cell apoptosis 5.48
abnormal vestibular hair cell morphology 5.47
abnormal middle ear ossicle morphology 5.44
abnormal temporomandibular joint morphology 5.41
thoracic vertebral fusion 5.41
abnormal megakaryocyte progenitor cell morphology 5.38
abnormal nest building behavior 5.38
altered susceptibility to kidney reperfusion injury 5.37
abnormal common lymphocyte progenitor cell morphology 5.36
abnormal facial nerve morphology 5.36
increased mast cell degranulation 5.34
abnormal liver development 5.34
abnormal olfactory system morphology 5.32
decreased fear-related response 5.31
abnormal tail movements 5.31
absent maxilla 5.30
absent olfactory bulb 5.26
eyelids open at birth 5.26
abnormal Purkinje cell number 5.25
absent corpus callosum 5.25
disorganized embryonic tissue 5.24
abnormal circulating progesterone level 5.23
abnormal larynx morphology 5.23
decreased cerebral infarction size 5.22
abnormal ischium morphology 5.19
abnormal external female genitalia morphology 5.18
abnormal tracheal cartilage morphology 5.17
abnormal bone marrow hematopoietic cell morphology 5.15
abnormal progesterone level 5.14
decreased megakaryocyte cell number 5.11
abnormal hair follicle regression 5.08
small embryonic telencephalon 5.07
decreased susceptibility to kidney reperfusion injury 5.06
abnormal parasympathetic ganglion morphology 5.05
abnormal cranial neural crest cell migration 5.04


absent hippocampal commissure 5.04
abnormal basisphenoid bone morphology 5.04
decreased microglial cell activation 5.02
altered response to CNS ischemic injury 5.02
absent hindlimb 5.02
absent styloid process 5.00
enhanced long term potentiation 4.99
abnormal basioccipital bone morphology 4.99
abnormal inferior olivary complex morphology 4.97
abnormal adrenaline level 4.96
abnormal frontonasal prominence morphology 4.96
failure of primitive streak formation 4.95
short maxilla 4.94
abnormal mast cell degranulation 4.94
fusion of middle ear ossicles 4.94
abnormal abdominal lymph node morphology 4.93
bowed ulna 4.92
gastrointestinal hemorrhage 4.89
abnormal premaxilla morphology 4.88
abnormal intestinal goblet cell morphology 4.87
increased megakaryocyte cell number 4.86
abnormal axillary lymph node morphology 4.86
abnormal visual evoked potential 4.84
abnormal microglial cell morphology 4.81
abnormal vestibulocochlear nerve morphology 4.80
abnormal palate bone morphology 4.80
abnormal neuron specification 4.79
abnormal organ of Corti supporting cell morphology 4.79
increased bone mineral density 4.78
abnormal glutaminergic neuron morphology 4.78
abnormal heart shape 4.76
absent lateral semicircular canal 4.75
enlarged thoracic cage 4.74
abnormal hyoid bone lesser horn morphology 4.74
short ureter 4.72
forelimb paralysis 4.71
spasticity 4.70
bowed radius 4.70
abnormal lymph organ development 4.69
hypaxial muscle hypoplasia 4.68
abnormal facial muscle morphology 4.65
abnormal heart ventricle pressure 4.64
reduced cerebellar foliation 4.63
small face 4.62
abnormal brain interneuron morphology 4.60
omphalocele 4.59
increased alcohol consumption 4.59
decreased susceptibility to ischemic brain injury 4.59
absent petrosal ganglion 4.58
abnormal Rathke's pouch development 4.55
abnormal cochlear inner hair cell number 4.54
small nodose ganglion 4.53
absent vestibular saccule 4.51
abnormal ear position 4.51
cardiac valve regurgitation 4.50
abnormal tympanic ring morphology 4.50
abnormal mitral valve cusp morphology 4.50
absent deltoid tuberosity 4.49
abnormal trigeminal nerve morphology 4.48
abnormal superior semicircular canal morphology 4.48
dilated heart atrium 4.48
absent hypaxial muscle 4.47
abnormal hair follicle development 4.46
increased hematopoietic stem cell number 4.46
decreased Schwann cell number 4.45
abnormal postnatal subventricular zone morphology 4.45
decreased common myeloid progenitor cell number 4.44
abnormal cardiac valve physiology 4.44
abnormal gastrointestinal motility 4.43
short sternum 4.40
abnormal pulmonary vein morphology 4.39
decreased lateral semicircular canal size 4.39
abnormal myocardium compact layer morphology 4.36
abnormal branching involved in ureteric bud morphogenesis 4.36
absent Meckel's cartilage 4.36
abnormal embryonic cloaca morphology 4.34
abnormal tail pigmentation 4.33
abnormal hepatobiliary system development 4.31
abnormal embryonic cloaca development 4.30
early eyelid opening 4.29
erythroderma 4.28
small trigeminal ganglion 4.25
abnormal pubis morphology 4.25
scapular bone hypoplasia 4.24
abnormal subplate morphology 4.24
increased metanephric mesenchyme apoptosis 4.23
visceral vascular congestion 4.22
abnormal face size 4.20
adenohypophysis hyperplasia 4.20
abnormal embryonic-extraembryonic boundary morphology 4.19
altered susceptibility to induced thrombosis 4.19
small dorsal root ganglion 4.19
no swallowing reflex 4.18
arteriosclerosis 4.15
abnormal styloid process morphology 4.12
bowed tibia 4.12


abnormal malleus morphology 4.11
impaired synaptic plasticity 4.11
abnormal nitric oxide homeostasis 4.07
abnormal mitral valve morphology 4.05
abnormal tricuspid valve morphology 4.04
impaired passive avoidance behavior 4.03
hypopigmentation 4.02
optic nerve degeneration 4.01
external male genitalia hypoplasia 4.01
abnormal eyelid fusion 4.00
abnormal corneal epithelium morphology 3.98
decreased organ of Corti supporting cell number 3.98
absent cerebellar foliation 3.97
abnormal dendritic spine morphology 3.96
absent limbs 3.96
decreased cochlear coiling 3.94
abnormal utricle morphology 3.93
ectopic bone 3.92
small petrosal ganglion 3.91
decreased tail pigmentation 3.90
bowed fibula 3.87
abnormal organ of Corti supporting cell number 3.86
absent utricle 3.85
failure of bone ossification 3.84
abnormal astrocyte physiology 3.83
amyloid beta deposits 3.82
absent incisors 3.81
nervous system inclusion bodies 3.81
abnormal parasympathetic system morphology 3.80
abnormal hair shaft morphology 3.79
decreased neuronal precursor cell number 3.75
abnormal mandibular condyloid process morphology 3.75
absent cochlear hair cells 3.73
abnormal retinal development 3.73
decreased susceptibility to neuronal excitotoxicity 3.72
decreased chemically-elicited antinociception 3.71
increased mature ovarian follicle number 3.69
abnormal nodose ganglion morphology 3.67
abnormal mandibular coronoid process morphology 3.64
loss of dopaminergic neurons 3.64
abnormal mammary gland growth during pregnancy 3.62
increased lens epithelium apoptosis 3.61
abnormal lateral nasal prominence morphology 3.59
absent choroid plexus 3.58
abnormal heart left ventricle pressure 3.57
persistent cloaca 3.55
atherosclerotic lesions 3.53
abnormal spinal cord dorsal horn morphology 3.52
abnormal primitive streak formation 3.51
absent urinary bladder 3.49
thin cortical plate 3.48
decreased primary ovarian follicle number 3.48
decreased susceptibility to dopaminergic neuron neurotoxicity 3.46
abnormal medial nasal prominence morphology 3.46
behavioral despair 3.45
small L4 dorsal root ganglion 3.45
abnormal hippocampus granule cell layer 3.43
abnormal lens fiber morphology 3.42
abnormal L4 dorsal root ganglion morphology 3.41
alcohol aversion 3.41
abnormal secretory circumventricular organ morphology 3.39
decreased nephron number 3.39
slow extinction of fear memory 3.37
abnormal passive avoidance behavior 3.36
increased amacrine cell number 3.31
abnormal eyelid development 3.31
abnormal parasympathetic postganglionic fiber morphology 3.30
liver hemorrhage 3.30
abnormal impulsive behavior control 3.30
adrenal cortical hyperplasia 3.30
abnormal circulating estrogen level 3.28
abnormal cochlear OHC afferent innervation pattern 3.28
vascular ring 3.26
abnormal spleen mesenchyme morphology 3.25
dorsal root ganglion hypoplasia 3.24
increased brain tumor incidence 3.22
abnormal nephron number 3.21
abnormal uterus weight 3.21
abnormal circumventricular organ morphology 3.20
skin fibrosis 3.17
degeneration of organ of Corti supporting cells 3.15
failure of endochondral bone ossification 3.15
abnormal pituitary infundibular stalk morphology 3.14
abnormal enteric nervous system morphology 3.14
split xiphoid process 3.14
abnormal circulating estradiol level 3.13
adactyly 3.13
abnormal parturition 3.12
abnormal pituitary gland development 3.10
irregular external granule cell layer thickness 3.09
abnormal posterior semicircular canal morphology 3.08
decreased mammary gland tumor incidence in breeding females 3.08
abnormal cutaneous/subcutaneous mechanoreceptor morphology 3.08
decreased diameter of humerus 3.08


decreased uterus weight 3.06
abnormal strial intermediate cell morphology 3.05
reduced kindling response 3.05
impaired avoidance learning behavior 3.05
increased interleukin-10 secretion 3.05
abnormal optic tract morphology 3.04
abnormal total fat pad weight 3.03
absent proprioceptive neurons 3.00
caudal body truncation 3.00
abnormal mucous gland morphology 3.00
abnormal tympanic membrane morphology 2.98
myometrium hypoplasia 2.96
abnormal pituitary diverticulum morphology 2.95
amyloidosis 2.94
abnormal deltoid tuberosity morphology 2.94
abnormal muscle precursor cell migration 2.92
anal stenosis 2.91
abnormal adenohypophysis development 2.91
abnormal hyoid bone body morphology 2.91
decreased kidney collecting duct number 2.91
increased pulmonary respiratory rate 2.88
ocular hypertelorism 2.88
mitral valve regurgitation 2.87
abnormal immunoglobulin V(D)Jrecombination 2.86
midface hypoplasia 2.85
increased ovary tumor incidence 2.85
small molars 2.84
small inguinal lymph nodes 2.84
abnormal secondary ovarian follicle morphology 2.82
thick mitral valve cusps 2.81
abnormal ureter smooth muscle morphology 2.80
absent pancreatic alpha cells 2.80
abnormal incus morphology 2.79
abnormal chemically-elicited antinociception 2.78
ectopic Paneth cells 2.78
sirenomelia 2.76
abnormal hair follicle outer root sheath morphology 2.76
increased cranial neural crest cell apoptosis 2.75
increased thymocyte apoptosis 2.75
catalepsy 2.75
small L5 dorsal root ganglion 2.72
abnormal optic vesicle formation 2.71
increased hippocampus pyramidal cell number 2.71
abnormal muscle precursor cell physiology 2.70
small hair follicles 2.63
bifurcated Rathke's pouch 2.63
increased total fat pad weight 2.62
abnormal solitary pulmonary neuroendocrine cell morphology 2.62
small geniculate ganglion 2.62
abnormal neurohypophysis morphology 2.60
abnormal prolactin level 2.59
abnormal prevertebral ganglion morphology 2.58
abnormal vestibular endolymph ionic homeostasis 2.55
abnormal Mullerian duct morphology 2.52
increased gastrointestinal stromal tumor incidence 2.49
absent pituitary infundibular stalk 2.49
uterus cysts 2.48
decreased corpora lutea number 2.46
increased aggression towards males 2.44
enlarged esophagus 2.43
abnormal hippocampus molecular cell layer 2.42
failure of ventral body wall closure 2.41
absent mandibular condyloid process 2.41
absent nephrogenic zone 2.40
absent nasal placodes 2.37
abnormal left lung morphology 2.36
decreased circulating adrenaline level 2.35
increased ganglioneuroma incidence 2.34
increased motor neuron number 2.34
retroesophageal right subclavian artery 2.33
abnormal lumbar dorsal root ganglion morphology 2.33
chylothorax 2.32
absent enteric neurons 2.32
tracheoesophageal fistula 2.30
small vertebrae 2.29
no spontaneous movement 2.23
abnormal sympathetic postganglionic fiber morphology 2.21
esophageal atresia 2.20
abnormal trigeminal V mesencephalic nucleus morphology 2.19
small mesencephalic trigeminal nucleus 2.19
thick mitral valve 2.15
abnormal Cajal-Retzius cell morphology 2.15
decreased Cajal-Retzius cell number 2.12
decreased maxillary shelf size 2.12
abnormal awl hair morphology 2.09
ectopic digits 2.08
absent pituitary gland 2.07
long incisors 2.05
abnormal dermis papillary layer morphology 2.04
abnormal thrombopoiesis 2.02
abnormal septation of the cloaca 2.01
abnormal GABAergic neuron morphology 2.00
decreased alcohol consumption 1.96
neurofibrillary tangles 1.96
absent alisphenoid bone 1.95
increased astrocytoma incidence 1.94
pleural effusion 1.93
anal atresia 1.93