

## Data sources from NeuroMorpho.Org

**Table 1. Data Sources for Axons - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Name
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6A-C-L
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6A-C-R
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6B
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6E-I-L
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6E-I-M
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6E-I-R
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6G
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6H
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6J
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig6L
sensory	Peripheral Nervous System	mouse	Badea	Badea2012Fig7C

**Table 2. Data Sources for Glia - Astrocytes - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Name
astrocyte	hippocampus	rat	King	A1-CA1-L-C63x1zACR2
astrocyte	hippocampus	rat	King	A1-CA1-L-F63x1zACR1
astrocyte	hippocampus	rat	King	A2-CA1-L-A63x1zACR5
astrocyte	hippocampus	rat	King	A2-CA1-L-D63x1zACR1
astrocyte	hippocampus	rat	King	A2-CA1-R-H63x1zACR2
astrocyte	hippocampus	rat	King	A3-CA1-L-A63x1zACR3_1
astrocyte	hippocampus	rat	King	B4-CA1-L-A63x1zCell4ACR
astrocyte	hippocampus	rat	King	B4-CA1-L-C63x1zCell1ACR
astrocyte	hippocampus	rat	King	C6-CA1-L-D3x1zACR4
astrocyte	hippocampus	mouse	Zheng	PS19-C3aR-KO-astrocytes1
astrocyte	hippocampus	mouse	Zheng	PS19-C3aR-KO-astrocytes2
astrocyte	hippocampus	mouse	Zheng	PS19-astrocytes
astrocyte	neocortex	mouse	Hernandez-Garzon	S11.2.1
astrocyte	neocortex	mouse	Hernandez-Garzon	S2.3.1.2
astrocyte	neocortex	mouse	Hernandez-Garzon	S5.1.2
astrocyte	neocortex	mouse	Hernandez-Garzon	S7.1.2
astrocyte	neocortex	mouse	Hernandez-Garzon	S8.2.2
astrocyte	neocortex	mouse	Hernandez-Garzon	S9.2.2
astrocyte	basal ganglia	mouse	Hernandez-Garzon	Series027.1ok
astrocyte	basal ganglia	mouse	Hernandez-Garzon	Series029.3ok

**Table 3. Data Sources for Glia - Microglia - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Names
microglia	hippocampus	mouse	Bilkei-Gorzo	2.48
microglia	hippocampus	mouse	Bilkei-Gorzo	2.50
microglia	hippocampus	mouse	Bilkei-Gorzo	3.40
microglia	hippocampus	mouse	Bilkei-Gorzo	6.41
microglia	spinal cord	mouse	Morara	A11aCSF_Iba1-Z_32-26
microglia	spinal cord	mouse	Morara	A20CGRP_Iba1-Z_103-11
microglia	hypothalamus	rat	Althammer	PVN10_microglia_10
microglia	hypothalamus	rat	Althammer	PVN10_microglia_15
microglia	hypothalamus	rat	Althammer	PVN10_microglia_19
microglia	hypothalamus	rat	Althammer	PVN10_microglia_27
microglia	hypothalamus	rat	Althammer	PVN11_microglia_12
microglia	hypothalamus	rat	Althammer	PVN9_microglia_26
microglia	hypothalamus	rat	Althammer	PVN9_microglia_8
microglia	Central Nervous System	mouse	Abdolhoseini_Kluge	cell001_GroundTruth
microglia	Central Nervous System	mouse	Abdolhoseini_Kluge	cell004_GroundTruth
microglia	Central Nervous System	mouse	Abdolhoseini_Kluge	cell006_GroundTruth
microglia	Central Nervous System	mouse	Abdolhoseini_Kluge	cell010_GroundTruth
microglia	neocortex	rat	Roysam	farsight1083
microglia	neocortex	rat	Roysam	farsight1102
microglia	hippocampus	mouse	Bilkei-Gorzo	tgLPSF1684Iba1o_7

**Table 4. Data Sources for Motoneurons - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Names
motoneurons	spinal cord	rat	Alvarez	Alvarez-Control-Cell-3
motoneurons	spinal cord	rat	Alvarez	Alvarez-Regen-Cell-4
motoneurons	spinal cord	mouse	Branchereau_Cattaert	BranchereauCattaert_ScientificReport2016_E17_5MN_x60
motoneurons	spinal cord	mouse	Branchereau_Cattaert	MartinNeurobiolDisease2013_E17_5MN_SOD1G93A_x60
motoneurons	spinal cord	mouse	Branchereau_Cattaert	MartinNeurobiolDisease2013_E17_5MN_WildType_x60
motoneurons	spinal neurons	cat	Burke	v_e_moto1
motoneurons	spinal neurons	cat	Burke	v_e_moto2
motoneurons	spinal neurons	cat	Burke	v_e_moto3
motoneurons	spinal neurons	cat	Burke	v_e_moto4
motoneurons	spinal neurons	cat	Burke	v_e_moto5
motoneurons	spinal neurons	cat	Burke	v_e_moto6

**Table 5. Data Sources for Purkinje Cells - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Names
purkinje	cerebellum	mouse	Dusart	Purkinje-slice-ageP35-1
purkinje	cerebellum	mouse	Dusart	Purkinje-slice-ageP35-2
purkinje	cerebellum	mouse	Dusart	Purkinje-slice-ageP35-3
purkinje	cerebellum	mouse	Dusart	Purkinje-slice-ageP35-4
purkinje	cerebellum	mouse	Dusart	Purkinje-slice-ageP37-5
purkinje	cerebellum	mouse	Dusart	Purkinje-slice-ageP43-6
purkinje	cerebellum	mouse	Watt	SCA6_P10_C1
purkinje	cerebellum	mouse	Watt	SCA6_P10_C5
purkinje	cerebellum	mouse	Watt	SCA6_P11_C2
purkinje	cerebellum	mouse	Watt	SCA6_P11_C3
purkinje	cerebellum	mouse	Watt	SCA6_P12_C4

**Table 6. Data Sources for D1-type dopamine receptor-expressing Medium Spiny Neuron (MSN) - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Names
D1 MSN	basal ganglia	mouse	Luebke	Apr12IR2a
D1 MSN	basal ganglia	mouse	Luebke	Apr12IR2a
D1 MSN	basal ganglia	mouse	Luebke	Apr26IR2e
D1 MSN	basal ganglia	mouse	Luebke	Apr29IR2a
D1 MSN	basal ganglia	mouse	Luebke	Apr29IR2b
D1 MSN	basal ganglia	mouse	Luebke	May24IR2b
D1 MSN	basal ganglia	mouse	Luebke	May5IR2a
D1 MSN	basal ganglia	mouse	Luebke	May9IR2a
D1 MSN	basal ganglia	mouse	Luebke	May9IR3b
D1 MSN	basal ganglia	mouse	Luebke	May9IR3d
D1 MSN	basal ganglia	mouse	Luebke	Nov3IR2c
D1 MSN	basal ganglia	mouse	Luebke	Nov8IR3a
D1 MSN	basal ganglia	mouse	Luebke	Nov9IR2a
D1 MSN	basal ganglia	mouse	Luebke	Nov9IR3c
D1 MSN	basal ganglia	mouse	Luebke	WT-D1-Jul19IR3d-stitch
D1 MSN	basal ganglia	mouse	Luebke	WT-D1-Jun19IR2a-whole-cell
D1 MSN	basal ganglia	mouse	Luebke	WT-D1-Jun27IR3b-whole-cell
D1 MSN	basal ganglia	mouse	Luebke	WT-D1-Jun5IR3b-whole-cell

**Table 7. Data Sources for D2-type dopamine receptor-expressing Medium Spiny Neuron (MSN) - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Names
D2 MSN	basal ganglia	mouse	Luebke	Apr12IR1b
D2 MSN	basal ganglia	mouse	Luebke	Apr12IR3a
D2 MSN	basal ganglia	mouse	Luebke	Apr12IR3b
D2 MSN	basal ganglia	mouse	Luebke	Apr19IR3f
D2 MSN	basal ganglia	mouse	Luebke	Apr26IR1a
D2 MSN	basal ganglia	mouse	Luebke	Apr29IR1c
D2 MSN	basal ganglia	mouse	Luebke	Apr29IR3a
D2 MSN	basal ganglia	mouse	Luebke	Nov3IR2a.1
D2 MSN	basal ganglia	mouse	Luebke	Nov3IR2d
D2 MSN	basal ganglia	mouse	Luebke	Nov3IR2e
D2 MSN	basal ganglia	mouse	Luebke	Nov3IR3b
D2 MSN	basal ganglia	mouse	Luebke	Nov8IR2b
D2 MSN	basal ganglia	mouse	Luebke	Nov9IR3b
D2 MSN	basal ganglia	mouse	Luebke	WT-D2-Jun19IR3a-whole-cell
D2 MSN	basal ganglia	mouse	Luebke	WT-D2-Jun27IR3c-whole-cell
D2 MSN	basal ganglia	mouse	Luebke	WT-D2-June19IR2c

**Table 8. Data Sources for Pyramidal Control Cells - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Names
pyramidal	neocortex	human	Allen Cell Types	H16-03-003-01-18-01.556380191.m
pyramidal	neocortex	human	Allen Cell Types	H16-03-008-11-11-02.601947643.m
pyramidal	neocortex	human	Allen Cell Types	H16-03-008-11-11-03.606347920.m
pyramidal	neocortex	human	Allen Cell Types	H16-06-004-01-04-01.538906745.m
pyramidal	neocortex	human	Allen Cell Types	H16-06-004-01-04-05.556380170.m
pyramidal	neocortex	human	Allen Cell Types	H16-06-004-01-13-02.538906639.m
pyramidal	neocortex	human	Allen Cell Types	H16-06-004-01-13-03.539990522.m
pyramidal	neocortex	human	Allen Cell Types	H16-06-004-02-13-04.538906871.m
pyramidal	neocortex	human	Allen Cell Types	H17-03-002-11-04-02.596792557.m
pyramidal	neocortex	human	Allen Cell Types	H17-03-002-11-04-04.603514410.m
pyramidal	neocortex	human	Allen Cell Types	H17-03-002-11-06-05.603514429.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-003-11-05-01.605485079.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-004-11-05-04.599474134.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-004-11-05-05.605857665.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-004-11-05-06.605851449.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-005-12-10-07.605485535.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-005-12-16-03.606347962.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-006-11-08-04.585893370.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-006-11-08-08.601946464.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-006-11-09-04.591274508.m
pyramidal	neocortex	human	Allen Cell Types	H17-06-009-11-04-04.614429153.m

**Table 9. Data Sources for Pyramidal Tumor Cells - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Names
pyramidal	neocortex	human	Allen Cell Types	576110753.transformed
pyramidal	neocortex	human	Allen Cell Types	576118161.transformed
pyramidal	neocortex	human	Allen Cell Types	576134298.transformed
pyramidal	neocortex	human	Allen Cell Types	576140393.transformed
pyramidal	neocortex	human	Allen Cell Types	665713811.transformed
pyramidal	neocortex	human	Allen Cell Types	716918890.transformed
pyramidal	neocortex	human	Allen Cell Types	716929071.transformed
pyramidal	neocortex	human	Allen Cell Types	768819569.transformed
pyramidal	neocortex	human	Allen Cell Types	768848167.transformed
pyramidal	neocortex	human	Allen Cell Types	768867010.transformed
pyramidal	neocortex	human	Allen Cell Types	768885440.transformed
pyramidal	neocortex	human	Allen Cell Types	768904007.transformed
pyramidal	neocortex	human	Allen Cell Types	769228370.transformed

**Table 10. Data Sources for Pyramidal Epilepsy Cells - Machine Learning Classification**

Cell Type	Region	Species	Archive Name	File Names
pyramidal	neocortex	human	Allen Cell Types	541557114.transformed
pyramidal	neocortex	human	Allen Cell Types	571732727.transformed
pyramidal	neocortex	human	Allen Cell Types	592532014.transformed
pyramidal	neocortex	human	Allen Cell Types	595572609.transformed
pyramidal	neocortex	human	Allen Cell Types	596898838.transformed
pyramidal	neocortex	human	Allen Cell Types	677088033.transformed
pyramidal	neocortex	human	Allen Cell Types	689306818.transformed
pyramidal	neocortex	human	Allen Cell Types	695521538.transformed
pyramidal	neocortex	human	Allen Cell Types	720828444.transformed
pyramidal	neocortex	human	Allen Cell Types	720862326.transformed
pyramidal	neocortex	human	Allen Cell Types	737089555.transformed
pyramidal	neocortex	human	Allen Cell Types	737134157.transformed
pyramidal	neocortex	human	Allen Cell Types	767433014.transformed
pyramidal	neocortex	human	Allen Cell Types	767829778.transformed
pyramidal	neocortex	human	Allen Cell Types	770255008.transformed
pyramidal	neocortex	human	Allen Cell Types	774420848.transformed
pyramidal	neocortex	human	Allen Cell Types	774620186.transformed
pyramidal	neocortex	human	Allen Cell Types	787239157.transformed
pyramidal	neocortex	human	Allen Cell Types	794276683.transformed
pyramidal	neocortex	human	Allen Cell Types	832627767.transformed