

List of Abbreviations

AEP	Anterior entopeduncular
ALD	Adrenoleukodystrophies
Apoc2	Apolipoprotein C-II
ARSA	Arylsulfatase A
β -actin	Beta-actin
BBB	Blood-brain barrier
BDNF	Brain derived neurotrophic factor
bHLH	Basic helix-loop-helix
BMP	Bone Morphogenetic Protein
BrdU	Bromodeoxyuridine
BSA	Bovine serum albumin
cDNA	Complementary DNA
PCR	Polymerase Chain Reaction
ChIP	Chromatin immunoprecipitation
CNPase	Cyclic nucleotide 3' -phosphodiesterase
CNS	Central nervous system
CREB	cAMP response element binding protein
DMEM	Dulbecco's modified eagle's medium
ECM	Extracellular matrix
ERK	Extracellular regulating kinase

FAK	Focal adhesion kinase
FBS	Fetal bovine serum
FGF2	Fibroblast-derived growth factor 2
FITC	Fluorescein isothiocyanate
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
GBM	Glioblastoma Multiforme
GFAP	Glial fibrillary acidic protein
GLD	Globoid cell leukodystrophies
HDAC	Histone deacetylases
HGG	High-grade gliomas
ICC	Immunocytochemistry
ID2	Inhibitor of Differentiation 2
ID4	Inhibitor of Differentiation 4
IGF1	Insulin-like growth factor-1
kDa	Kilo Dalton
LGE	Lateral Ganglionic Eminences
LGG	Low-grade gliomas
LSD	Lysosomal storage diseases
MAG	Myelin associated glycoprotein
MAPK	Mitogen activated kinases
MBD	Methyl-CpG binding domain

MBP	Myelin basic protein
MeCP2	Methyl CpG binding protein 2
MGE	Medial Ganglionic Eminence
MLD	Metachromatic leukodystrophies
MOBP	Myelin oligodendrocyte basic protein
MOG	Myelin oligodendrocyte glycoprotein
MS	Multiple Sclerosis
NCAM	Neural cell adhesion molecule
N-CoR	Nuclear receptor co repressor 1
NGF	Nerve Growth Factor
nm	Nanometer
NSC	Neural stem cell
NT-3	Neurotrophin-3
OD	Optical density
OL	Oligodendrocyte
OPC	Oligodendrocyte precursor cell
PDGF-A	Platelet-derived growth factor A
PDGFR α	PDGF receptor-alpha
PLL	Poly-L-lysine
PLP	Proteolipid protein
PMD	Pelizaeus-Merzbacher's disease
PML	Progressive multifocal leukoencephalopathy

pMN	Motor neuron progenitor
PNS	Peripheral Nervous System
qPCR	Quantitative PCR
RT-PCR	Reverse Transcription Polymerase Chain Reaction
RTT	Rett Syndrome
Sin3A	Switch-independent 3A
siRNA	Small Interfering RNA
SVZ	Sub ventricular zone
TF	Transcription Factor
TGF- β	Transforming growth factor beta
TRD	Transcriptional repression domain
TRITC	Tetramethyl Rhodamine Isothiocyanate
X-ALD	X-linked Adrenoleukodystrophy
XCI	X-chromosome inactivation
YB1	Y box-binding protein 1
YFP	Yellow fluorescent Protein
YY1	Yin Yang 1
μ M	Micomolar