List of Abbreviations

µM	Micomolar
β-actin	Beta-actin
BDNF	Brain derived neurotrophic factor
bHLH	Basic helix-loop-helix
BMP	Bone Morphogenetic Protein
BrdU	Bromodeoxyuridine
BSA	Bovine serum albumin
cDNA	Complementary DNA
CNS	Central Nervous system
DCC	Deleted in Colorectal Cancer
DMEM	Dulbecco's modified eagle's medium
ECM	Extracellular matrix
ERK	Extracellular regulating kinase
FAK	Focal adhesion kinase
FBS	Fetal bovine serum
FGF2	Fibroblast Growth Factor
FITC	Fluorescein isothiocyanate
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
GBM	Glioblastoma Multiforne
GFAP	Glial fibrillary acidic protein
GFP	Green fluorescent Protein
GM	Gray Matter
ICC	Immunocytochemistry
IGF1	Insulin-like growth factor-1

kDa	Kilo Dalton
LGE	Lateral Ganglionic Eminence
MAPK	Mitogen activated kinases
MeCP2	Methyl CpG binding protein 2
MGE	Medial Ganglionic Eminence
MS	Multiple Sclerosis
nm	Nanometer
NTN1	Netrin1
OD	Optical density
OLG	Oligodendrocytes
PCR	Polymerase Chain Reaction
PDGF	Platelet derived Growth Factor
PDGFRα	PDGF receptor-alpha
PI3K	Phosphoinositide-3 kinase
PLCγ	Phospholipase C gamma
PLL	Poly-L-lysine
pMN	Motor neuron progenitor
PNS	Peripheral Nervous system
qPCR	Quantitative PCR
RT-PCR	Reverse Transcription Polymerase Chain Reaction
Sema	Semaphorins
SHH	Sonic Hedgehog
siRNA	Small Interfering RNA
SVZ	Sub ventricular zone
TGF-β	Transforming growth factor beta

TRITC	Tetramethyl Rhodamine Isothiocyanate
UNC5	Unc-5 homolog
VEGF	Vascular Endothelial Growth Factor
VOCC	Voltage-operated Ca^{++} channel
WASP	Wiskott–Aldrich syndrome protein
WAVE2	WASP family verprolin homologous protein 2