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Regional diversity in oligodendrocyte progenitor cells

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Abbreviations



List of abbreviations

3'-RNAseq 3-end RNA sequencing

A

ABC arachnoid barrier cell
 ACM astrocyte conditioned medium
 AD Alzheimer's disease
 AMPAR AMPA receptor
 Arg1 arginase-1
 ARL13B ADP-ribosylation factor-like protein 13B
 ARP astrocyte restricted progenitor
 ASTR astrocyte
 AUC area under the curve

B

BBB blood-brain barrier
 BDNF brain-derived neurotrophic factor
 BMDM bone marrow-derived macrophage
 BSA bovine serum albumin

C

cc corpus callosum
 ctrl control
 CNP 2',3'-cyclic-nucleotide 3'-phosphodiesterase
 CNS central nervous system
 CNTF ciliary neurotrophic factor
 COP differentiation-committed oligodendrocyte progenitor cell
 CPC choroid plexus epithelial cell
 cx cortex

D

DAFS data-adaptive flag method
 DAPI 4',6-diamidino-2-phenylindole

DC dendritic cell
 DEG differentially expressed gene
 DM demyelination
 DNAL2 dynein axonemal intermediate chain 2

E

E embryonic day
 EAE experimental autoimmune encephalomyelitis
 ECM extracellular matrix
 END endothelial cell
 EPC ependymocyte
 ESI-MS/MS electrospray ionization mass spectrometry

F

FACS fluorescence-activated cell sorting
 FBS fetal bovine serum
 FGF fibroblast growth factor
 FTD frontotemporal dementia

G

GalCer galactosylceramide
 GFAP glial fibrillary acidic protein
 GM grey matter
 gmASTR grey matter astrocyte
 gmOPC grey matter oligodendrocyte progenitor cell
 GO gene ontology
 GPR17 G-protein coupled receptor 17

H

Hb_VC hemoglobin-expressing vascular cells
 hCOP human differentiation-committed oligodendrocyte progenitor cell
 HGF hepatocyte growth factor
 hMOL human mature oligodendrocyte
 hOPC human oligodendrocyte progenitor cell

HypEPC	hypendemal cell
I	
IFN γ	interferon gamma
IFT88	intraflagellar transport protein 88
IGF $_1$	insulin-like growth factor 1
IL	interleukin
imASTR	immature astrocyte
imhOLG	immature human astrocyte
immN	immature neuron
imOLG	immature oligodendrocyte
iPS	induced pluripotent stem cell
K	
KAR	kainate receptor
L	
LDH	lactate dehydrogenase
LIF	leukemia inhibitory factor
log(CPM)	log value of the counts per million
LPS	lipopolysaccharide
LXR	liver-X-receptor
M	
MAC	macrophage
MBP	myelin basic protein
mCOP	murine differentiation-committed oligodendrocyte progenitor cell
M-CSF	macrophage colony stimulating factor
MCT	monocarboxylate transporters
MHC-I/II	major histocompatibility complex class I/II
MICRO	microglia
mMFOL	murine myelin-forming oligodendrocyte
mMOL	murine mature oligodendrocyte
MMP	matrix metalloproteinase

MNC	monocyte
mNEUR	mature neuron
mNFOL	murine newly-formed oligodendrocyte
mOPC	murine oligodendrocyte progenitor cell
MS	multiple sclerosis
MTT	3-(4,5-dimethyl-2-thiazolyl)-2,5-diphenyl-2H-tetrazolium bromide

N

NAGM	normal appearing grey matter
NAWM	normal appearing white matter
NCM	non-conditioned medium
NendC	neuroendocrine cell
NEU	neuron
Neut	neutrophil
NMDAR	NMDA receptor
NRP	neuronal restricted progenitor
NSC	neural stem cell

O

OEG	olfactory ensheathing glia
OLC	oligodendrocyte lineage cell
OLG	oligodendrocyte
OPC	oligodendrocyte progenitor cell
OSM	oncostatin M

P

P	postnatal day
PBS	phosphate buffered saline
PC	phosphatidylcholine
PCA	principal component analysis
PDGF	platelet-derived growth factor
PDGFR α	platelet-derived growth factor receptor alpha
PFA	paraformaldehyde
PLL	poly-L-lysine

PLP	proteolipid protein
pMN	motor neuron progenitor
PPAR	peroxisome proliferator-activated receptor
PPMS	primary progressive multiple sclerosis
PS	phosphatidylserine
<u>Q</u>	
qPCR	quantitative polymerase chain reaction
<u>R</u>	
RM	remyelination
R-mAb	Ranscht monoclonal antibody
rpm	rounds per minute
RRMS	relapsing-remitting multiple sclerosis
RT	room temperature
RT-PCR	reverse transcriptase polymerase chain reaction
<u>S</u>	
SiP	sphingosine-1-phosphate
SiPR ₃	sphingosine-1-phosphate receptor 3
SCD ₁	stearoyl-CoA desaturase-1
scr	scramble
scRNAseq	single cell RNA sequencing
SEM	standard error of the mean
Sema3F	semaphorin 3F
Shh	sonic hedgehog
shRNA	short hairpin RNA
SM	sphingomyelin
snRNAseq	single nucleus RNA sequencing
spc	spinal cord
spc-mOPC cyc	spinal cord cycling murine oligodendrocyte progenitor cell
SPMS	secondary progressive multiple sclerosis

<u>T</u>	
TLR	Toll-like receptor
TNC	tancyte
TNF α	tumor necrosis factor alpha
<u>V</u>	
VLMC	vascular and leptomenigeal cell
VSMC	vascular smooth muscle cell
<u>W</u>	
WM	white matter
wmASTR	white matter astrocyte
wmOPC	white matter oligodendrocyte progenitor cell
Wnt	Wingless and integration site
<u>Y</u>	
γ -tub	gamma tubulin