

Correction

Correction: Zhang et al., An RNA-Sequencing Transcriptome and Splicing Database of Glia, Neurons, and Vascular Cells of the Cerebral Cortex

In the article “An RNA-Sequencing Transcriptome and Splicing Database of Glia, Neurons, and Vascular Cells of the Cerebral Cortex” by Ye Zhang, Kenian Chen, Steven A. Sloan, Mariko L. Bennett, Anja R. Scholze, Sean O’Keefe, Hemali P. Phatnani, Paolo Guarneri, Christine Caneda, Nadine Ruderisch, Shuyun Deng, Shane A. Liddelow, Chaolin Zhang, Richard Daneman, Tom Maniatis, Ben A. Barres, and Jian Qian Wu, which appeared on pages 11929–11947 of the September 3, 2014 issue, an oversight led to the omission of recognizing two authors, Dr. Kenian Chen and Dr. Jian Qian Wu, who contributed toward the writing of the paper. The Author Contribution footnote should have read “Author contributions: Y.Z., S.A.S., M.L.B., R.D., T.M., B.A.B., and J.Q.W. designed research; Y.Z., S.A.S., M.L.B., A.R.S., C.C., N.R., and S.D. performed research; S.A.L. and C.Z. contributed unpublished reagents/analytic tools; Y.Z., K.C., S.A.S., M.L.B., S.O., H.P.P., and P.G. analyzed data; Y.Z., K.C., S.A.S., B.A.B., and J.Q.W. wrote the paper. Also, note that a few typos have been noted in some gene names in Tables 2 and 3, and in Figure 4. The author contributions, Tables 2 and 3 and Figure 4 have been corrected on the online PDF version. The corrected tables and figure are shown below.

Table 2. Cell type-enriched ligands and receptors

	Astrocyte	Neuron	OPC	NFO	MO	Microglia	Endothelial	Pericyte	
Enriched transmembrane receptors	Ptprz1	Gpc1	Pdgfra	Gpr17	Efnb3	Csf1r	Tfrc	Pdgfrb	
	Ednrb	Ptpn	Gpr17	Sema4d	Gpr37	Cd83	Pglyrp1	Colec12	
	S1pr1	Caly	Itgav	Plxnb3	Sema4d	Tyrobp	H2-D1	Sfrp1	
	Fgfr3	Grin1	Omg	Ddr1	Lpar1	Ccr12	Elttd1	S1pr3	
	Gabbr1	Ptpn2	Gfra1	Efnb3	Ddr1	B2m	Kdr	Abcc9	
	Tnfrsf19	Gria1	Gria3	Gpr37	Omg	Trem2	Eng	Rarres2	
	Vcam1	Cnr1	Sstr1	Lpar1	Ephb1	Sirpa	Tie1	Pdgfr1	
	Adcyap1r1	Opcml	Il1rap	Pdgfra	Gprc5b	Fcer1g	Cav1	Mrc2	
	Gria2	Stx1b	Adora1	Omg	S1pr5	Cd14	Flt1	Fas	
	F3	Cxadr	Lypd1	Ephb1	Gpr17	Icam1	Fcgrt	Ednra	
	Grm3	Nptxr	Gria4	Sema5a	Plxnb3	Cx3cr1	Sema7a	Lepr	
	Dag1	Grm2	Chrna4	Il1rap	Gpr62	Lag3	Lsr	Osmr	
	Plxnb1	Robo2	Sema5a	S1pr5	Il1rap	Gpr56	Acvr11	Gprc5a	
	Ntsr2	Kit	Calcr1	Prkcz	Prkcz	Itgam	Tek	Ifitm1	
	Fgfr1	Gabrb3	Gabra3	ErbB3	Itgb4	Fcgr3	Gpr116	Ddr2	
	Ptch1	Gabrg2	Grin3a	Gpr62	ErbB3	P2ry12	Fzd6	Scarf2	
	Fgfr2	Sarm1	Opr1	Ptpr	Sema5a	P2ry13	Ptprb	Tgfb3	
	Gpr19	Gabra2	Grik4	Grik3		Tnfrsf12a	Aplnr	Fzd5	
	Itga6	Darc	Plxnb3	Grik2		H2-K1	Ptprg	Npy1r	
	Gabbr2	Celsr3	Grik3	Casr		Gpr183	Plxnd1	Celsr1	
	Enriched ligands	Sparcl1	Reln	Matn4	Gsn	Trf	Cst3	Sparc	Igf2
		Cpe	Sst	Scrg1	Lgi3	Gsn	C1qa	Sepp1	Vtn
		Cyr61	Npy	Olfm2	Scrg1	Apod	Ccl4	Pltp	Cxcl12
		Mfge8	Olfm1	Vcan	Enpp6	Lgi3	Ccl3	Igfbp7	Col4a1
		Clu	Dkk3	Emid1	Matn4	Metrn	C1qb	Spock2	Col1a2
		Htra1	Ccl27a	Tnr	Tnr	Endod1	C1qc	Ctla2a	Bgn
		Igfbp2	Cx3cl1	Nxph1	Ddr1	Adamts4	Selpig	Pglyrp1	Dcn
		Vegfa	Cck	Timp4	Adamts4	Cntn2	Ctsb	Col4a1	Ptgds
		Scg3	Vgf	Spon1	Metrn	Enpp6	B2m	Egfl7	Cxcl1
		Ncan	Vstm2l	Igsf21	Fam3c	Hapln2	Gdf15	AU021092	Col1a1
		Pla2g7	Chgb	Gsn	C1ql1	Il1rap	Olfm3	Srgn	Fstl1
		Fjx1	Scg2	Fam5c	Vcan	ErbB3	Tnf	Fn1	Col3a1
Timp3		C1qtnf4	Qpct	Timp4	Slpi	Pla2g15	Kdr	Mdk	
Il18		Cxadr	C1ql3	Il1rap	Klk6	Tcn2	Apln	Igfbp5	
Btdb17		Col6a2	Smoc1	Col11a2	Col11a2	Ly86	Wfdc1	Serpinf1	
Itih3		Resp18	Gpc5	Bmp4	Matn4	Plod1	Angptl4	Nbl1	
Hapln1		Vstm2a	Il1rap	Elf2	Dlk2	Il1a	Htra3	Nid2	
Lcat		Car11	Dscam	Dlx2	Il23a	Tgfb1	Smpd3a	Islr	
Chrdl1		Igfbp1	Chga	Spon1	Wnt3	Lgals9	Lama4	Ptx3	
Pla2g3		Nppc	Nptx2	Dscam	Npb	Ccl2	Emcn	Vasn	

Table 3. Cell type-specific splicing events

	Gene	Coverage	dl	p value	FDR	
Astrocyte	<i>Fyn</i>	771	−0.27	1.15 E-176	1.95 E-174	
	<i>Prom1</i>	251	0.86	1.12 E-133	4.59 E-131	
	<i>Ncam1</i>	3576	0.24	1.63 E-132	5.93 E-130	
	<i>Ptprf</i>	480	−0.58	1.03 E-120	2.98 E-118	
	<i>Srgap3</i>	308	0.69	1.99 E-84	1.44 E-82	
	<i>Kif1a</i>	180	0.75	3.12 E-66	1.76 E-64	
	<i>Ptk2</i>	134	−0.47	1.33 E-63	6.73 E-62	
	<i>Camk2g</i>	903	−0.44	5.75 E-56	2.43 E-54	
	<i>Mapk8</i>	270	−0.55	6.98 E-37	2.36 E-35	
	<i>Pkm2</i>	1112	−0.23	2.85 E-25	6.58 E-24	
	Neurons	<i>Agrn</i>	907	−0.5	<1 E-300	<1 E-300
<i>App</i>		5181	0.2	<1 E-300	<1 E-300	
<i>Atp6v0a1</i>		1815	−0.66	<1 E-300	<1 E-300	
<i>Clta</i>		3032	−0.81	<1 E-300	<1 E-300	
<i>Dync1i2</i>		1618	−0.82	<1 E-300	<1 E-300	
<i>Nfasc</i>		821	−0.94	<1 E-300	<1 E-300	
<i>Rab6</i>		3058	0.34	<1 E-300	<1 E-300	
<i>Mtss1</i>		1244	−0.6	5.19 E-216	7.02 E-214	
<i>Srgap3</i>		834	0.62	1.69 E-132	1.52 E-130	
<i>Lrp8</i>		328	−0.75	3.23 E-119	2.51 E-117	
<i>Phldb1</i>		2947	−0.58	<1 E-300	<1 E-300	
<i>Aplp2</i>		1358	0.48	<1 E-300	<1 E-300	
<i>Capzb</i>		1350	−0.58	5.97 E-263	3.54 E-260	
<i>Add1</i>		1515	−0.51	1.41 E-231	5.95 E-229	
Oligodendrocytes	<i>Mpzl1</i>	1165	0.45	4.37 E-227	3.15 E-223	
	<i>Clnd1</i>	1187	−0.6	2.49 E-209	8.2 E-207	
	<i>Enpp2</i>	1550	0.23	1.63 E-209	2.35 E-191	
	<i>H2afy</i>	320	0.43	1.31 E-35	5.11 E-34	
	<i>Mtss1</i>	181	0.44	1.58 E-24	4.54 E-23	
	<i>Snapp25</i>	100	0.39	8.8 E-22	2.1 E-20	
	Microglia	<i>Clstn1</i>	588	0.91	<1 E-300	<1 E-300
		<i>H13</i>	1263	0.2	6.2 E-296	3.94 E-283
		<i>Sema4d</i>	768	0.6	1.19 E-282	6.79 E-280
		<i>App</i>	705	−0.6	5.33 E-240	2.04 E-237
		<i>Add1</i>	509	0.57	9.97 E-188	3.17 E-185
		<i>Lass5</i>	408	0.65	2.49 E-174	7.12 E-172
		<i>Rapgef1</i>	355	0.45	2.22 E-173	5.79 E-171
<i>Fmn1</i>		493	0.44	1.32 E-158	3.15 E-156	
<i>Fez2</i>		853	0.36	1.61 E-139	3.08 E-137	
<i>Fyn</i>		131	0.68	7.07 E-89	9.31 E-87	
Endothelial		<i>Adam15</i>	893	0.7	<1 E-300	<1 E-300
	<i>Mcf2l</i>	629	0.74	<1 E-300	<1 E-300	
	<i>Palm</i>	942	−0.65	<1 E-300	<1 E-300	
	<i>Ablim1</i>	1025	0.47	<1 E-300	<1 E-300	
	<i>Mprrip</i>	3292	−0.51	<1 E-300	<1 E-300	
	<i>Actn4</i>	1805	−0.31	<1 E-300	<1 E-300	
	<i>Ktn1</i>	809	−0.7	3.84 E-226	1.02 E-223	
	<i>Arhgef1</i>	865	0.36	2.23 E-219	5.66 E-217	
	<i>Eif4h</i>	1199	0.46	1.14 E-197	2.29 E-195	
	<i>Pkp4</i>	577	0.63	1.68 E-195	3.26 E-193	

	Astrocytes	Neurons	OPCs	NFO	MO	Microglia	Endothelial	Pericytes
Overall Enriched Genes (ranked by fold-change)	Hgf	Reln	Pdgfr1	Gp1bb	Gjb1	Sfn2	Cldn5	Fmod
	Aqp4	Nhlh2	Lnx1	Tmem108	Ndrgr1	Gpr84	Ttr	Rps2
	Itih3	Slc17a6	Dcn	Fyn	Ppp1r14a	Cor7	Ly6a	Igf2
	Bmpr1b	Trp73	Mmp15	Ust	Adss1	Bcl2a1d	Madcam1	Gpc3
	Itga7	Lhx5	Cdo1	Mical3	Aspa	Tnf	8430408G22Rik	Ogn
	Plcd4	Lhx1as	Sapcd2	Kif19a	Acy3	Ncf1	Akr1c14	Lrrc32
	Grm3	Dlx6os1	Kcnk1	1810041L15Rik	Trp53inp2	Gdf15	Ly6c2	Finc
	Slc14a1	Sst	Rasgrf1	9630013A20Rik	Pla2g16	Osm	Meox1	Gjb2
	Phkg1	5330417C22Rik	Pcdh15	Nfasc	Efhd1	Lrrc25	Ly6c2	Itih2
	Pla2g3	Mab2111	Chrna4	Ssh3	Itgb4	H2-Oa	Car4	Rdh10
	Cbs	Snhg11	Dll3	Pik3r3	Hapin2	Cd83	Bsg	Bmp6
	Paqr6	Mrap2	Col1a2	Enpp6	Mbp	Ccl3	Aplnr	Aldh1a2
	Aldh1l1	Dlx1	Fam70b	Tns3	Hcn2	Slamf8	Sigirr	Postn
	Cth	Tmem90a	Sstr1	Bmp4	Nmra1	Ccl4	Slco1a4	Sidt1
	Ccdc80	Islr2	Pnlp	Mcl1	Cdc42ep2	Gna15	Slc16a1	Lamc3
	Fmo1	Igfbp11	Cspg4	Cdv3	Mal	Il1b	Icam2	Slc22a6
	Slc30a10	Gdf5	Lppr1	Tmem163	Mog	Plau	Kank3	Clec3b
	Slc6a11	Stmn2	Ppapdc1a	Rap2a	Slc3a1	Ccl9	Slc19a3	Slc6a13
	Fgfr3	Ecel1	Nxph1	Tmem2	Apod	Tmem119	Fam101b	Bicc1
	Slc4a4	Robo2	Pid1	Cnksr3	Gsn	C1qa	Slc16a4	S100a10
	Gdpd2	Dlx1as	Ugdh	Cyfp2	Pdim2	Irf8	Nostrin	Rps18
	Ppp1r3c	Cellf4	Slitrk1	Fmd4a	Prr18	1810011H11Rik	Sdpr	Serping1
	Grhl1	Cellf6	Shc4	Slc12a2	Inf2	Pla2g15	Ptgis	Col1a1
	Entpd2	Nxph4	Smoc1	Itpr2	Tppp3	Cxcl16	Myct1	Dcn
	Egfr	Grm2	Emid1	Rnf122	Tbcl1d9b	Ch25h	Vwa1	Col1a2
	A1464131	Npy	Rilbp1	Lims2	Nol3	Hck	Ankrd37	Pcolce
	Otx1	Tbr1	Dcaf12l1	Samd4b	Cenpb	Cd12	Sox18	Cyp1b1
	Nwd1	Slc32a1	Lypd6	Chn2	Slc45a3	Ptafr	Prnd	Cited1
	Atp13a4	Dlx2	Lhfp13	Ppp2r3a	Carns1	Cd300a	Dok4	Emp1
	Kcnn3	Npas4	Myt1	Strn	Opalin	Irf5	Serpinb6b	C4b
	Ptx3	Ebf3	Gfia3	Girb	Arsg	Stpi1	Efna1	Ahnak
	Sorc2	Bcl11a	C1q1	Rras2	Rftn1	Selpg	Cd34	S1pr3
Tnc	Cacna2d2	Tmem179	Fmnl2	Adap1	Sash3	Egfl7	Col3a1	
Sox9	Cistn2	Megf11	Sema5a	Plekhh1	Pltp	Pglyrp1	Fstl1	
Abcd2	Dpysl5	Ncald	Fam3c	Trf	Trem2	Slc35f2	Col4a5	
Fzd10	Vstmn2l	Sdc3	Cdc37l1	Insc	Tlr2	Cdkn2b	Vtn	
Lrig1	Tmem130	Rprm	Fam73a	Cryab	P2ry6	Fam129a	Lama2	
Mlc1	Nppc	Cacng4	Elovl6	Kif5a	Cd14	Sgms1	Mfap4	
Chrdl1	Vgf	Grin3a	Atrn	Trak2	Bcl2a1a	Flt1	Kcne4	
Aifm3	Bhlhe22	Fam5c	Lrrc42	Cldn11	Bcl2a1c	Tie1	Erff1	
	Astrocytes	Neurons	OPCs	NFO	MO	Microglia	Endothelial	Pericytes
Transcription Factors	Gli1	Nhlh2	Sox10	Myrf	Nkx6.2	Stpi1	Erg	Tbx15
	Gli2	Trp73	Gsx1	Nkx6.2	Myrf	Irf8	Sox17	Foxc2
	Gli3	Lhx5	Olig1	Sox10	Sox10	Irf5	Foxq1	Twist1
	Otx1	Dlx1	Myt1	Barx2	Sp7	Irf4	Mecom	Tbx18
	Grhl1	Ebf3	Pou3f1	Olig1	Barx2	Batf	Foxf2	Foxd1
	Sox9	Dlx5	Sox8	Nkx2.2	Olig1	Runx1	Sox18	Fosl1
	Hes5	Tbr1	Olig2	Sox8	Pou3f1	Ikzf1	Bcl6b	Heyl
	Rfx4	Dlx2	Sox3	Olig2	Sox8	Cebpa	Sox7	Hic1
	Pax6	Lhx6	Nkx2.2	Sox3	Carhsp1	Mlxipl	Meox1	Foxc1
	Dbx2	Bcl11a	Sox6	Mycl1	Nfe2l3	Batf3	Zic3	Prrx2

Figure 4.