

Additional File 2. Pearson's correlation analyses for possible relationships between gene expression levels in BA24 neurons and age, RNA quality (RIN) and postmortem interval (PMI).

Gene^a (protein^b)	Statistic	Age	RIN	PMI
<i>RNA18S1 / GAPDH^c</i>	Pearson Correlation	-.309	.043	-.250
	Sig. (2-tailed)	.243	.875	.350
	N	16	16	16
<i>GRIN1</i> (NR1)	Pearson Correlation	.050	.318	-.226
	Sig. (2-tailed)	.855	.231	.400
	N	16	16	16
<i>GRIN2A</i> (NR2A)	Pearson Correlation	-.055	.531	.176
	Sig. (2-tailed)	.851	.051	.548
	N	14	14	14
<i>GRIN2B</i> (NR2B)	Pearson Correlation	.109	.579	-.250
	Sig. (2-tailed)	.687	.019	.351
	N	16	16	16
<i>GRIN2C</i> (NR2C)	Pearson Correlation	.229	.642 ^d	-.091
	Sig. (2-tailed)	.394	.007	.737
	N	16	16	16
<i>GRIN2D</i> (NR2D)	Pearson Correlation	.322	.082	.203
	Sig. (2-tailed)	.224	.763	.452
	N	16	16	16
<i>GRIA1</i> (GluR-1)	Pearson Correlation	-.374	.213	-.012
	Sig. (2-tailed)	.154	.429	.966
	N	16	16	16
<i>GRIK2</i> (GRIK2, GluK2)	Pearson Correlation	-.316	.250	-.346
	Sig. (2-tailed)	.233	.350	.189
	N	16	16	16
<i>GRM5</i> (mGluR5)	Pearson Correlation	-.017	-.117	-.435
	Sig. (2-tailed)	.953	.677	.105
	N	15	15	15
<i>GRM8</i> (mGluR8)	Pearson Correlation	.131	.140	.029
	Sig. (2-tailed)	.684	.664	.929
	N	12	12	12
<i>SLC1A1</i> (EAAT3)	Pearson Correlation	-.191	.285	-.591
	Sig. (2-tailed)	.478	.284	.016

	N	16	16	16
<i>SLC17A7</i> (VGAT1)	Pearson Correlation	.003	.312	-.358
	Sig. (2-tailed)	.991	.240	.173
	N	16	16	16
<i>GRIP1</i> (GRIP1)	Pearson Correlation	-.128	.265	-.030
	Sig. (2-tailed)	.638	.320	.913
	N	16	16	16
<i>BDNF</i> (BDNF)	Pearson Correlation	.005	-.084	-.212
	Sig. (2-tailed)	.985	.757	.430
	N	16	16	16
<i>NTRK2</i> (NTRK2, TrkB)	Pearson Correlation	.522	.271	-.076
	Sig. (2-tailed)	.038	.310	.780
	N	16	16	16

^a Derived from the HUGO gene nomenclature committee responsible for designating unique gene names (Wain et al., 2002).

^b Official protein nomenclature showing both the recommended and alternative protein names (Uniprot, 2008).

^c Ratio of the two reference genes; all other expression data are normalized to the average of these two reference genes.

^d Correlation is significant at p<0.01 (2-tailed).