

Supplementary Table 1. Features of control subjects

Age (years)	Sex – Race	Cause of death	PMI (hours)	Tissue pH	Toxicology
66	M – AA	CVD	12.5	6.69	<i>n.d.</i>
65	F – Cauc	CVD	26	6.18	<i>n.d.</i>
61	M – Cauc	atherosclerotic CVD	16	6.72	<i>n.d.</i>
32	M – Cauc	blunt trauma to head and body	25	6.88	<i>n.d.</i>
43	M – Hisp	crush injuries to head and body	21.8	6.58	<i>n.d.</i>
53	M – Cauc	gastric hemorrhage	26.5	6.58	meperidine, promethazine, morphine
50	M – Cauc	atherosclerotic CVD	22.5	6.78	<i>n.d.</i>
56	M – Cauc	blunt trauma to head and body	27.2	6.86	pseudoephedrine
60	F – Cauc	atherosclerotic CVD	17.2	.	<i>n.d.</i>
54	M – Cauc	post-surgical complication	26.5	6.50	morphine
62	M – Cauc	MCI	21	.	<i>n.d.</i>
18	M – AA	bronchial asthma	31.2	6.40	midazolam
56	F – AA	hypertrophic cardiomyopathy	16.8	6.09	<i>n.d.</i>
65	M – Cauc	CVD	22.2	6.60	<i>n.d.</i>
61	M – AsA	CVD	30.5	6.61	lidocaine
50	F – AA	hypertrophic cardiomyopathy	20	6.81	<i>n.d.</i>
28	M – AA	bronchial asthma	35.5	6.32	<i>n.d.</i>

Sex-race: F, female; M, male; AA, African-American; AsA, Asian-American; Cauc, Caucasian; Hisp, Hispanic. Cause of death (Type): CVD, cardiovascular disease; MCI, myocardial infarction. Tissue pH: “.”, frozen tissue not available. Toxicology: CO, carbon monoxide; *n.d.*, nothing detected.

Supplementary Table 2. Features of subjects with major depressive disorder (MDD)

Age (years)	Sex – Race	Cause of death (Type)	PMI (hours)	Tissue pH	Toxicology	Current psychotropic prescription
79	M – Cauc	electrocution (S)	21.5	.	sertraline	sertraline, temazepam
65	M – Cauc	SIGSW (S)	30	6.24	codeine	unknown
41	M – Cauc	CO poisoning (S)	16	.	ethanol, CO	none
52	M – AA	SIGSW (S)	10	.	<i>n.d.</i>	none
48	M – Cauc	aortic dissection	16.5	6.26	<i>n.d.</i>	none
48	F – Cauc	hanging (S)	6.5	.	citalopram, trazodone	quetiapine, oxcarbazepine, aripiprazole, escitalopram
49	M – Cauc	atherosclerotic coronary artery disease with cardiomegaly	27.5	.	diazepam, desipramine, lidocaine	imipramine, diazepam
19	M – Cauc	SIGSW (S)	24.2	6.82	cannabinoids	fluoxetine, amphetamine/dextro-amphetamine
61	F – Cauc	SIGSW (S)	37.8	6.66	<i>n.d.</i>	none
56	F – Cauc	acute bronchopneumonia, DM	38	5.61	doxylamine	none
54	M – Cauc	atherosclerotic coronary artery disease, squamous cell carcinoma	38	6.54	fluoxetine, dextromethorphan	fluoxetine
50	F – Cauc	atherosclerotic CVD	28.5	6.47	dextromethorphan	imipramine
51	M – Cauc	hypertensive and atherosclerotic cardiomyopathy	11.5	6.42	lorazepam, bupropion, citalopram	bupropion, citalopram, lorazepam, temazepam
44	F – Cauc	SIGSW (S)	29	6.71	bupropion, diphenhydramine, venlafaxine, hydrocodone	bupropion, venlafaxine, hydrocodone
59	M – Cauc	CO poisoning (S)	26.8	6.22	CO, fluoxetine	fluoxetine
37	M – AA	SIGSW (S)	31.5	6.71	ethanol	none

62	M - AA	CVD, obesity, emphysema	22	6.06	<i>n.d.</i>	none
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Sex-race: F, female; M, male; AA, African-American; Cauc, Caucasian. Cause of death (Type): S, suicide; CO, carbon monoxide; CVD, cardiovascular disease; DM, diabetes mellitus; SIGSW, self-inflicted gunshot wound. Tissue pH: ".", frozen tissue not available. Toxicology: CO, carbon monoxide; *n.d.*, nothing detected.

Supplementary Table 3. Clinical characteristics of subjects with Major Depressive Disorder (MDD)

Age of onset of MDD (years)	Duration of MDD (years)	Single-episode, recurrent, or chronic MDD
79	0.17	single
65	0.08	single
41	0.33	single
55	0.25	single
39	6	recurrent
20	20	recurrent
47	10	chronic
14.5	4.5	recurrent
49	12	recurrent
55	1	single
32.5	20	recurrent
32.5	15	chronic, in remission last few years
16	35	chronic
33	11	recurrent
54	5	recurrent
37	0.08	single
49	13	recurrent

Supplementary Table 4. Parameters for determining astrocyte density

	Disector dimensions (μm)	Grid dimensions (μm)
CA1	225 (X) \times 140 (Y) \times 25 (Z)	250 (X) \times 250 (Y)
CA2/3	215 (X) \times 130 (Y) \times 9 (Z)	250 (X) \times 250 (Y)
Hilus	150 (X) \times 150 (Y) \times 9 (Z)	300 (X) \times 300 (Y)