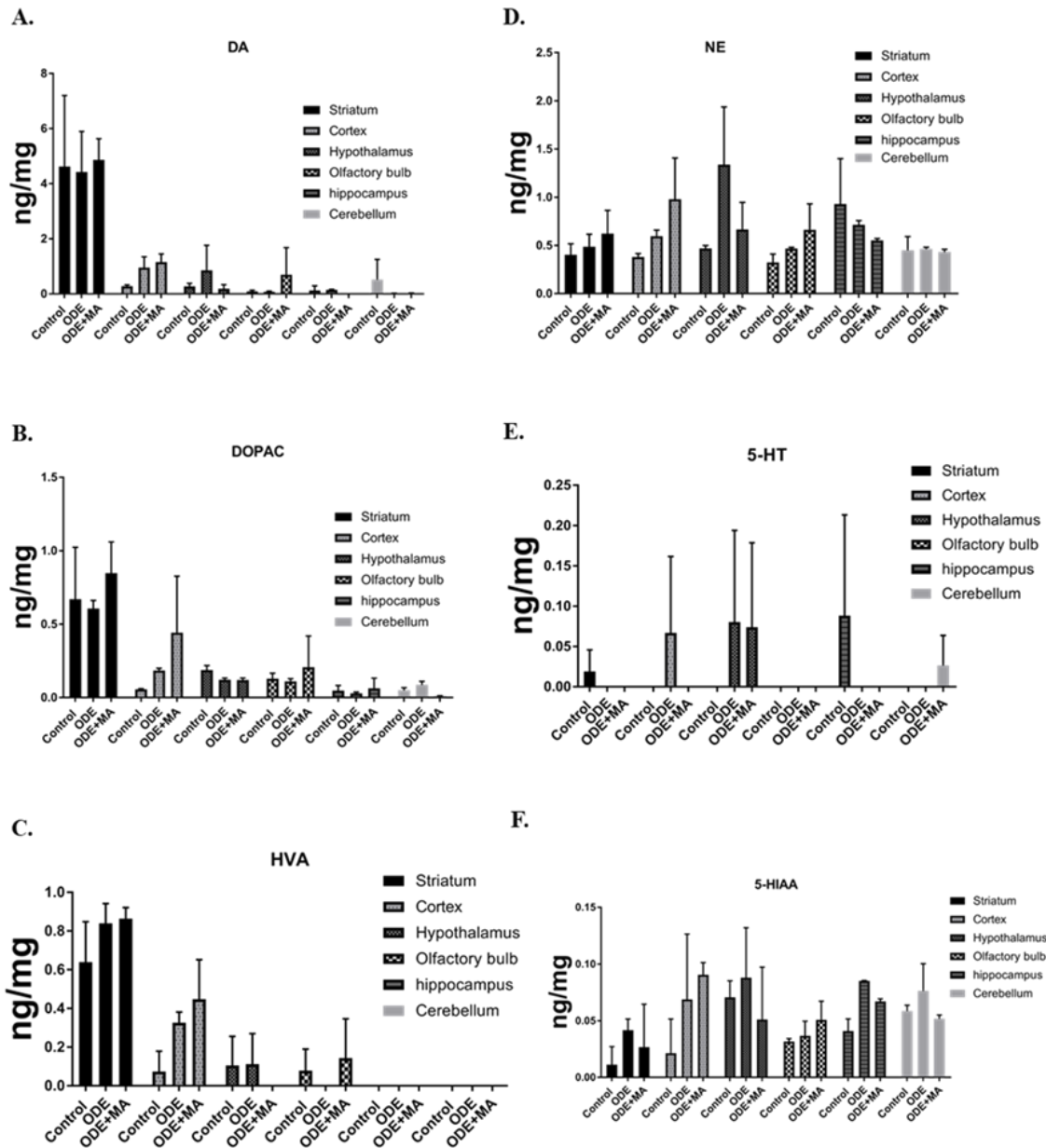


## Supplementary Material



**Supplementary Figure 1.** Neurochemical Profile of control, ODE and ODE + MA exposed mice. Mice exposed to saline, ODE, and ODE with MA (3mg/kg) displayed moderate changes in the brain neurochemical profiles. Norepinephrine (NE) (D), Dopamine (DA) (A), Serotonin (5-HT) (E) and their respective metabolites, Dihydroxyphenylacetic acid (DOPAC) (B), Homovanillic Acid (HVA) (C) and 5-Hydroxyindoleacetic acid (5-HIAA) (F) were measured in various regions including Striatum, pre-frontal cortex, hypothalamus, olfactory bulb, hippocampus and cerebellum by HPLC-ECD.

Supplementary Table 1. Animal Treatments

<b>Treatment group</b>	<b>Route</b>	<b>Days</b>
Control (Normal Saline, 25 $\mu$ L each nostril)	Intranasal	Monday to Friday
ODE (12.5 %, 25 $\mu$ L each nostril)	Intranasal	Monday to Friday
ODE (12.5 %, 25 $\mu$ L each nostril) + MA (3 mg/Kg) 50 $\mu$ L total	Oral MA followed by Intranasal ODE	Monday/Wednesday /Friday
Fluorescent LPS (2 $\mu$ g/ mice)	Intranasal	Monday to Friday

Supplementary Table 2. Antibodies used in Western blotting

<b>Antibody</b>	<b>Catalogue</b>	<b>Dilution</b>	<b>Vendor</b>
HMGB1	ab 79823	(1:15000)	Abcam
IBA1	ab 5076	(1:500)	Abcam
Phospho-Tau (Ser202, Thr205)	MN1020	(1:1000)	Thermo Fisher Scientific

Supplementary Table 3. Antibodies used for ICC

<b>Primary Target (Host species)</b>	<b>Catalog #</b>	<b>Secondary Antibody</b>	<b>Catalog #</b>
HMGB1 (Rabbit)	ab 79823	Anti-Rabbit (Cy3 conjugated) raised in donkey	711-165-152
3-NT (Mouse)	ab 61392	Anti-Mouse (FITC conjugated) raised donkey	715-095-150

Iba1 (Goat)	ab 5076	Anti-Goat (Cy3 conjugated) raised donkey	711-165-147
GFAP (Mouse)	G3893	Anti-Mouse (FITC conjugated) raised donkey	715-095-150
Phospho-Tau (Ser202, Thr205) (Mouse)	MN1020	Anti-Mouse (FITC conjugated) raised donkey	715-095-150
NueN (Rabbit)	ABN78	Anti-Rabbit (Cy3 conjugated) raised in donkey	711-165-150
Acetylated $\alpha$ tubulin(Mouse)	Ab24610	Anti-Mouse (Cy3 conjugated) raised in donkey	711-165-150

Supplementary Table 4 Symbols (Asterisk or Hashtag) and Corresponding p-Values

Symbol	p-value
* or #	$\leq .05$
** or ##	$\leq .01$
*** or ###	$\leq .001$
**** or ####	$\leq .0001$