

# Supplementary Materials: Prevention of Stress-Induced Depressive-Like Behavior by Saffron Extract is Associated with Modulation of Kynurenine Pathway and Monoamine Neurotransmission

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**Table S1.** Classification of the genes of interest and their references according to the systems or pathways they belong to.

Category	Genes	Reference
Housekeeping gene	<i>Beta-2-Microglobulin (B2M)</i>	Mm00437762_m1
HPA axis	<i>Glucocorticoid Receptor (GR)</i>	Mm00433832_m1
Neurogenesis	<i>Brain-Derived Neurotrophic Factor (BDNF)</i>	Mm01334047_m1
Monoamine receptors	<i>Dopamine Receptor D1 (DRD1)</i>	Mm01353211_m1
	<i>Dopamine Receptor D2 (DRD2)</i>	Mm00438545_m1
	<i>Serotonin 1a Receptor (5-HTR1a)</i>	Mm00434106_s1
	<i>Serotonin 1b Receptor (5-HTR1b)</i>	Mm00439377_s1
Monoamine degradation enzymes	<i>Monoamine Oxidase A (MAO-A)</i>	Mm00558004_m1
	<i>Monoamine Oxidase B (MAO-B)</i>	Mm00555412_m1
	<i>Catechol-O-methyltransferase (COMT)</i>	Mm00514377_m1
Monoamine transporters	<i>Dopamine transporter (DAT)</i>	Mm00438388_m1
	<i>Serotonin transporter (SERT)</i>	Mm00439391_m1
Kynurenine pathway	<i>Indoleamine 2,3-Dioxygenase (IDO)</i>	Mm00492590_m1
	<i>Kynurenine 3-Monooxygenase (KMO)</i>	Mm00505511_m1
	<i>Kynureninase (KYNU)</i>	Mm00551012_m1
	<i>3-Hydroxyanthranilate 3,4-Dioxygenase (HAAO)</i>	Mm00517945_m1
	<i>Kynurenine Aminotransferase (KAT)</i>	Mm01351821_m1
BH4 pathway	<i>GTP-Cyclohydrolase I (GTPCH1)</i>	Mm01322973_m1
	<i>6-Pyruvoyl Tetrahydropterin (PTS)</i>	Mm00478494_m1
	<i>Sepiapterin Reductase (SPR)</i>	Mm00488430_m1

**Table S2.** Parameters used for each WB (sample concentration, saturation conditions, dilution of Ir antibody and reference of the appropriate Ir antibody).

	Protein Name	Sample Concentration	Saturation	Ir Antibody Concentration	Ir Antibody
FCx	DRD1	10 µg	Milk 5%	1/1000	α Rat (712-035-150/Jackson)
	DRD2	10 µg	Milk 5%	1/1000	α Rabbit (711-035-152/Jackson)
	DAT	10 µg	Milk 5%	1/2000	α Rabbit (711-035-152/Jackson)
	5-HTR1a	5 µg	Milk 5%	1/1000	α Rabbit (711-035-152/Jackson)

	SERT	10 µg	BSA 5%	1/1000	α Rabbit (711-035-152/Jackson)
STR	DRD1	5 µg	Milk 5%	1/1000	α Rat (712-035-150/Jackson)
	DRD2	5 µg	Milk 5%	1/1000	α Rabbit (711-035-152/Jackson)
	DAT	5 µg	Milk 5%	1/2000	α Rabbit (711-035-152/Jackson)
	5-HTR1a	5 µg	Milk 5%	1/1000	α Rabbit (711-035-152/Jackson)
HPC	SERT	10 µg	BSA 5%	1/1000	α Rabbit (711-035-152/Jackson)
	GAPDH	-	Milk 5%	1/20000 or 25000	α Rabbit (711-035-152/Jackson)