

Prenatal Delta-9-tetrahydrocannabinol exposure induces transcriptional alterations in dopaminergic system with associated electrophysiological dysregulation in the prefrontal cortex of adolescent rats

Supplementary material

Martina Di Bartolomeo^{1,†}, Sonia Aroni^{2,†}, Marcello Serra², Valeria Serra², Francesca Martella¹, Federica Gilardini¹, Miriam Melis^{2,*} and Claudio D'Addario^{1,3,*}

- ¹ Department of Bioscience and Technology for Food, Agriculture and Environment, University of Teramo, Teramo, Italy.
- ² Department of Biomedical Sciences, Division of Neuroscience and Clinical Pharmacology, University of Cagliari, Cagliari, Italy.
- ³ Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden
- * Correspondence: myriam@unica.it (M.M.); cdaddario@unite.it (C.D.); +39-070-675-4322/4340 (M.M.); +39-0861-266877 (C.D.)
- † These authors contributed equally to this work
- ‡ Co-senior Authors

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SUPPLEMENTARY TABLES

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Table S1 Gene expression of ECS elements (receptors and metabolic enzymes) in PFC of prenatal Cannabis exposed (PCE) rats, stratified according to sex.

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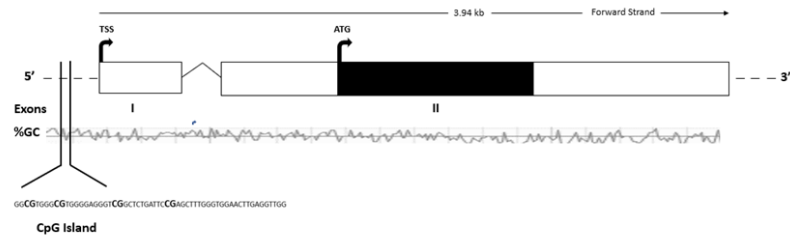
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	MALES			FEMALES		
ECS genes	CNT (mean ± SEM)	PCE (mean ± SEM)	P values	CNT (mean ± SEM)	PCE (mean ± SEM)	P values
<i>Cnr1</i>	1.32 ± 0.42	1.05 ± 0.33	0.8290	1.36 ± 0.43	1.15 ± 0.44	0.6457
<i>Cnr2</i>	1.07 ± 0.15	1.42 ± 0.30	0.5338	1.07 ± 0.14	1.82 ± 0.55	0.2844
<i>Trpv1</i>	1.09 ± 0.19	1.11 ± 0.17	0.9740	1.12 ± 0.21	1.48 ± 0.18	0.2378
<i>Nape-pld</i>	1.14 ± 0.23	1.48 ± 0.39	0.8048	1.16 ± 0.26	0.84 ± 0.17	0.2928
<i>Dagl-α</i>	1.19 ± 0.22	0.99 ± 0.30	0.6389	1.06 ± 0.15	1.13 ± 0.22	> 0.9999
<i>Faah</i>	1.05 ± 0.15	1.23 ± 0.23	0.7460	1.02 ± 0.09	0.96 ± 0.18	0.5887
<i>Magl</i>	1.23 ± 0.35	1.30 ± 0.37	> 0.9999	1.15 ± 0.23	0.91 ± 0.27	0.5093

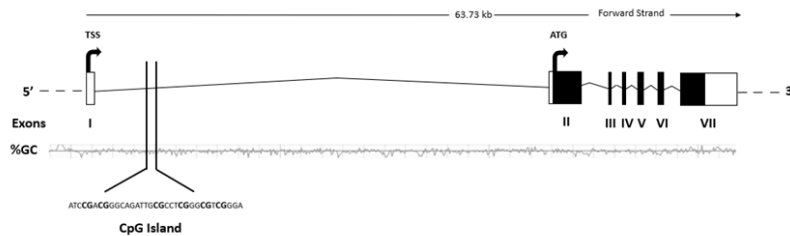
Data are reported as $2^{-\Delta\Delta Ct}$ values calculated by Delta-Delta Ct ($\Delta\Delta Ct$) method versus control (CNT) rats. Ex-pression was normalized to GAPDH, β -actin and 18S. Data are reported as mean ± SEM (n=5–7 rats/group, male rats; n=5/8 rats/group, female rats). P values are depicted.

SUPPLEMENTARY FIGURES

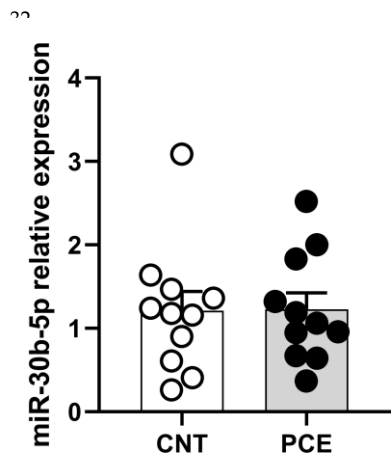
(A) *Rn_Drd1*



(B) *Rn_Drd2*



Supplementary Figure S1. Schematic representation of rat (A) *Drd1* (Transcript Drd1-202, ENSRNOT00000117894.1, genome assembly mRatBN7.2) and (B) *Drd2* (Transcript Drd2-202, ENSRNOT00000083419.2, genome assembly mRatBN7.2) genes. ATG is the translation start site. Shown are the location of CpG islands, exons, introns and TSS (transcription start site). Coding regions of exons are shown darker. Sequence of CpG islands is depicted.



Supplementary Figure S2. miR-30b-5p expression levels of all the study samples. miRNA expression data are reported as $2^{-\Delta\Delta Ct}$ values calculated by Delta–Delta Ct ($\Delta\Delta Ct$) method versus CNT. Expression was normalized to U6. Data are reported as mean $\pm$ SEM (n=11–11 rats/group)