

Supplementary material

Table S1. Primer sequences for gene expression analysis

Marker	Gene name	Gene symbol	Entrez Gene ID	Primer sequence (5'→3')
Oxidative Stress	NAD(P)H: ehydrogenase, quinone 1	<i>Nqo1</i>	18104	F: CAATCAGCGTTCGGAATTACGA
				R: GCCAGTACAATCAGGGCTCTTC
	Superoxide dismutase 1	<i>Sod1</i>	20655	F: GATTAAGTGAAGGCCAGCATG
				R: GTCATCTTGTTTCTCATGGACC
	Heme oxygenase 1	<i>Hmox1</i>	15368	F: GGAGATAGAGCGCAACAAGC
				R: CCATACCAGAAGGCCATGTC
Xenobiotic metabolism	Cytochrome P450, family 2, subfamily e, polypeptide 1	<i>Cyp2e1</i>	1571	F: GGATGAATATGCCCTACATG
				R: TGATGGGCAGCAGGTCTCAT
	Cytochrome P450, family 1, subfamily A, polypeptide 1	<i>Cyp1a1</i>	13076	F: TCTCGTGGAGCCTCATGTACCT
				R: TGCCGATCTCTGCCAATCA
	Aryl-hydrocarbon receptor (Ahr), transcript variant 2	<i>Ahr</i>	11622	F: CGTCCCTGCATCCCACTACTT
				R: GGACATGGCCCCAGCATAG
Apoptosis	Caspase 3	<i>Casp 3</i>	12367	F: TCCTGGTCTTTGTACGCTACCA
				R: CCTGATGTCGAAGTTGAGGTAGCT
	B cell leukemia/lymphoma 2 (Bcl2), transcript variant 1	<i>Bcl2</i>	12043	F: GGTGGTGGAGGAAGTCTTCA
				R: ACGCTCTCCACACACATGAC
	Protein 53 (Trp53), transcript variant X4	<i>Trp53</i>	22059	F: CACCACGCTGTGGCGAAAAGTCTG
				R: CTCAAAAAAGTACCAGGGC
Metabolismo de lípidos	peroxisome proliferator activated receptor gamma, transcript variant X	<i>Ppar-γ</i>	19016	F: CTGCTCAAGTATGGTGTCCATGA
				R: TGAGATGAGGACTCCATCTTTATTCA
Inflammation	Interleukin 1A	<i>IL1a</i>	16175	F: TGGCCAAAGTTCCTGACTTGTTTG
				R: CAGGCTATTTAACCAAGTGGTGCT
Housekeeping	Glyceraldehyde-3-phosphate dehydrogenase	<i>Gapdh</i>	14433	F: CCTCGTCCCGTAGACAAAATG
				R: TGAAGGGGTCGTTGATGGC
	Beta-actin	<i>Actb</i>	11461	F: CTTTGCAGCTCCTTCGTTGC
				R: ACGATGGAGGGGAATACAGC

F: Forward; R: Reverse

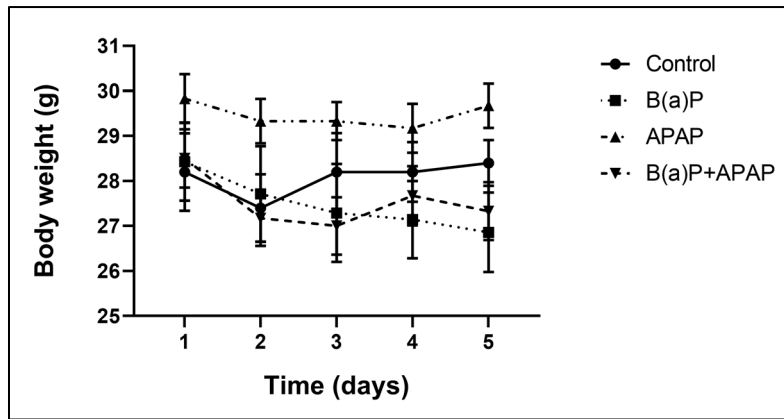


Figure S1. Body weight of the experimental groups.

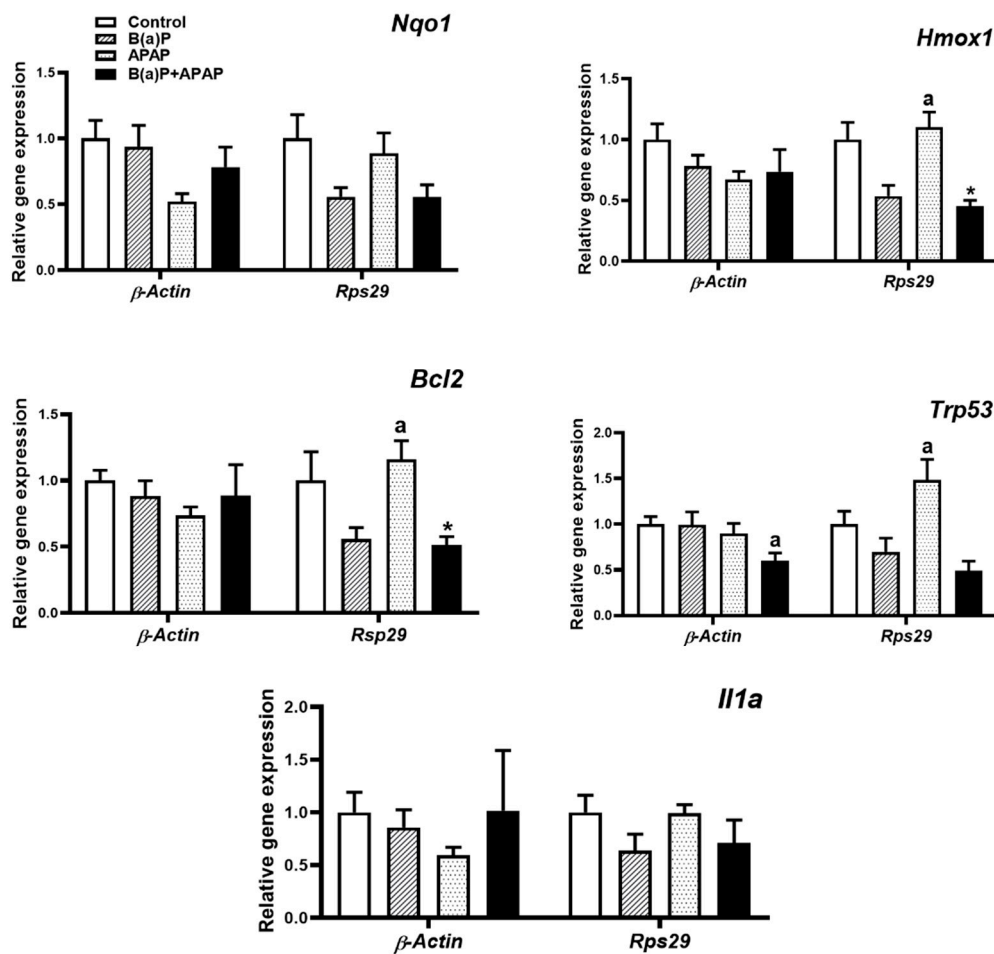


Figure S2. Relative gene expression in liver of ICR mice exposed to different treatment. Expression was normalized against β -Actin and Rps29 (Housekeeping genes). Data are expressed as mean \pm SEM. Significant difference when compared to control (*), and B[a]P (a). The level of significance was set at $p < 0.05$.

Table S2. Relative gene expression for experimental groups

GENE	RELATIVE GENE EXPRESSION							
	HK1				HK2			
	Control	B[a]P	APAP	B[a]P+ APAP	Control	B[a]P	APAP	B[a]P+ APAP
<i>Ahr</i>	1 ±0.09	0.62±0.09	0.76±0.07	0.44±0.09 ^{ab}	1±0.11	0.43±0.07 ^b	1.29±0.18	0.35±0.08 ^{ab}
<i>Cyp1a1</i>	1±0.18	106.40±27.69 ^b	0.59±0.05	1325±1084 ^{ab}	1±0.28	63.11±15.24 ^{ab}	0.93±0.13	705.8±472.70 ^{ab}
<i>Cyp2e1</i>	1±0.11	0.73±0.18	0.80±0.06	0.47±0.15	1±0.06	0.55±0.15 ^b	1.38±0.15	0.39±0.10 ^{ab}
<i>Sod1</i>	1±0.12	0.97±0.34	0.60±0.05	0.27±0.08 ^{abc}	1±0.04	0.57±0.12	1.02±0.08	0.20±0.04 ^{ab}
<i>Ppar-γ</i>	1±0.09	0.77±0.10	0.62±0.03	0.56±0.14 ^a	1±0.12	0.52±0.08 ^{ab}	1.05±0.11	0.38±0.07 ^{ab}
<i>Casp3</i>	1±0.15	0.52±0.06	0.45±0.04	0.42±0.11 ^a	1±0.13	0.35±0.04 ^{ab}	0.77±0.10	0.29±0.04 ^{ab}
<i>Nqo1</i>	1±0.14	0.94±0.16	0.52±0.06	0.78±0.15	1±0.18	0.56±0.07	0.89±0.15	0.56±0.09
<i>Hmox1</i>	1±0.13	0.78±0.09	0.67±0.07	0.74±0.18	1±0.14	0.54±0.09 ^{ab}	1.10±0.12	0.45±0.05 ^{ab}
<i>Bcl2</i>	1±0.08	0.88±0.12	0.73±0.07	0.89±0.23	1±0.22	0.56±0.08 ^b	1.16±0.14	0.51±0.07 ^{ab}
<i>Trp53</i>	1±0.08	0.99±0.14	0.90±0.11	0.60±0.09	1±0.14	0.70±0.15	1.48±0.23	0.49±0.11 ^{ab}
<i>Il1a</i>	1±0.19	0.86±0.17	0.59±0.08	1.02±0.57	1±0.16	0.64±0.15	0.99±0.08	0.71±0.22

HK1. Houskeeping 1: β-Actin, HK2. Houskeeping 2: Rps29.

Data are expressed as mean ± SEM. Significant difference ($p<0.05$) when compared to control (a), APAP (b), or B[a]P (c).

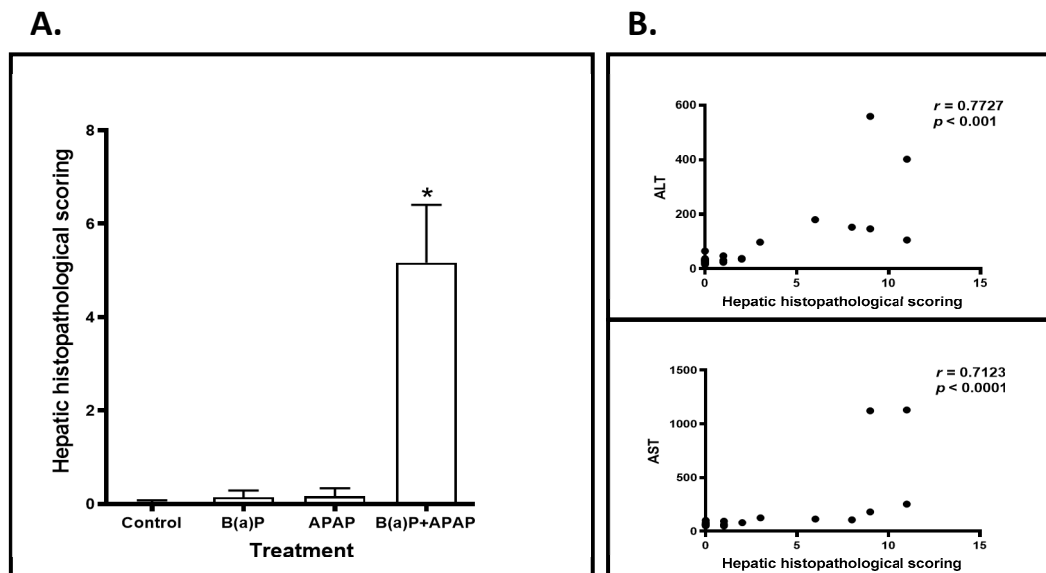


Figure S3. Effects of B[a]P/APAP on hepatic morphology and transaminase levels on ICR mice. A. Hepatic histopathological scoring calculated as the sum of scores for each parameter based on the scoring system described in “Materials and Methods”. B. Spearman correlations between hepatic histopathological scores and serum transaminase activities. Data are expressed as mean \pm SEM. Asterisks indicate statistical differences between means ($p < 0.05$).