Supporting Information

Effects of benzo[a]pyrene, cortisol and 17ß-estradiol on liver microsomal EROD activity of *Anguilla*: An *in vitro* approach

Carla Ferreira de Melo 1*, Miguel Oliveira 2, Maria Ana Santos 2 and Mário Pacheco 2

¹ Department of Biology, University of Aveiro, 3810-193 Aveiro, Portugal

² Centre for Environmental and Marine Studies (CESAM), Department of Biology, University of Aveiro, 3810-193 Aveiro, Portugal

^{*} Corresponding author: csofia@ua.pt; Department of Biology, University of Aveiro, 3810-193 Aveiro, Portugal

Table S1 - Buffers, solvents and solutions used during Experimental Setup

	Buffers
BS	$0.5~\mu M$ etoxyresorufin in Tris-HCl $0.1~M$ pH 7.4 with KCl $0.15M$ and 20% glycerol
В	Tris-HCl 0.1 M pH 7.4 with KCl 0.15M and 20% glycerol
BSC	BS with cortisol (final concentration in cuvette = 5.997 ng/ml)
BSE ₂	BS with E ₂ (final concentration in cuvette = 5.997 ng/ml)
	Solvents
DMSO	Dimethyl sulfoxide
	Solutions
B[a]P	Benzo[a]pyrene (0.1, 0.3, 0.9 and 2.7 μM) in DMSO

Table S2 - Experimental liver microsomal EROD activity assay procedures to assess effects of cortisol (C), 17β -estradiol (E2) and benzo[a]pyrene (B[a]P), alone or in combination. The numbers (1, 2, 3 and 4) represent the sequence of compounds added to the cuvette [Tris-HCl 0.1 M pH 7.4 with KCl 0.15 M 20% glycerol (B) with 0.5 μM ethoxyresorufin (BS); BS with cortisol 5.997 ng/ml (BSC); BS with E2 5.997 ng/ml (BSE2), dimethyl sulfoxide (DMSO), benzo[a]pyrene (B[a]P)].

Experimental assay	5 µl microsomes	1090 µl BS	1090 µl BSC	1090 µl BSE 2	5 րվ B	5 μl DMSO	5 µl B[a]P (in DMSO)	10 µl NADPH (10nM)
Effects of 5.997 ng/ml of C	1		2			3		4
Effects of 5.997 ng/ml of E ₂				2		3		4
Effects of B[a]P (0.1, 0.3, 0.9 and 2.7 μM)		2					3	4
Effects of B[a]P (0.1, 0.3, 0.9 and 2.7 μM) after pre- exposure to 5.997 ng/ml of C			2				3	4
Effects of B[a]P (0.1, 0.3, 0.9 and 2.7 μM) after pre- exposure to 5.997 ng/ml of E ₂				2			3	4