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Online Material

Table S1. Forty-eight-h hatching success and 96-h larval survival of turbot exposed to dissolved copper, cadmium and mercury ($n = 200$).

Exposure type	[μgL^{-1}]	(48 h) hatching success		(96 h) Larval survival			
		Number of dead	Hatching	Number of dead larvae			
				24 h	48 h	72 h	96 h
Cu	5	2	99	2	2	3	7
	10	2	99	1	1	31	52
	20	1	99.5	4	4	46	102
	40	30	85	45	68	105	162
	80	75	62.5	141	178	192	195
	160	67	60	133	183	189	200
Cd	5	4	98	9	16	20	30
	10	12	94	34	52	60	75
	20	14	92	30	52	62	95
	40	54	75	69	87	96	118
	80	163	18.5	175	190	192	197
	160	166	12	177	193	195	200
Hg	9	44	89	n.r	n.r	n.r	n.r
	27	45	88.8	n.r	n.r	n.r	n.r
	81	159	57.8	n.r	n.r	n.r	n.r
	243	326	18.5	n.r	n.r	n.r	n.r
	729	395	1.25	n.r	n.r	n.r	n.r
	control	3	87	1	3	3	4

n.r.: not recorded.

Table S2. Morphological abnormalities of turbot embryos and larvae exposed to metals: (A) yolk sac alterations, (B) no rupture of the eggs membrane, (C) pericardial edema, (D) skeletal deformities.

Exposure type	[μgL^{-1}]	(48 h) hatching success			(96 h) Larval survival			
		A	B	C	A	B	C	D
Cu	5	1	1	0	0	0	0	0
	10	0	3	2	1	0	1	0
	20	1	2	1	2	0	1	1
	40	1	3	0	2	0	2	2
	80	2	2	0	3	0	2	2
	160	3	3	1	4	0	4	3
Cd	5	0	1	0	0	1	0	0
	10	1	3	2	1	0	1	0
	20	2	2	1	2	0	1	0
	40	2	3	0	3	1	3	0
	80	3	2	0	5	0	3	0
	160	4	3	3	5	0	5	1
control		0	1	0	1	0	1	0

Table S3. Forty-eight-h hatching success and 96-h larval survival of turbot exposed to PAHs in dark and under artificial light ($n = 200$).

PAH	[μgL^{-1}]	(48 h) hatching success				(96 h) Larval survival							
		Number of dead embryos				Number of dead larvae							
		embryos		success(%)		dark				Light			
		dark	light	dark	light	24 h	48 h	72 h	96 h	24 h	48 h	72 h	96 h
Pyr	1.25	0	1	97.5	92	4	5	10	11	5	6	10	10
	2.5	2	11	96	94.7	6	12	23	32	14	17	33	44
	5	4	13	95	89.5	26	39	56	86	26	49	83	106
	10	12	37	86.5	82	66	100	114	110	74	139	164	187
	20	21	41	86	72	89	122	131	167	81	149	173	197
	40	25	43	81	64	109	152	183	188	149	182	191	200
Fl	6.25	20	3	98.5	90	24	28	29	40	16	23	45	65
	12.5	26	8	87	96	26	35	40	57	42	67	84	109
	25	34	13	83	93.5	46	68	92	132	54	74	117	156
	50	35	16	81.5	92	49	60	81	90	72	114	143	171
	100	39	26	80.5	87	61	80	91	163	85	128	162	190
Phe	200	41	73	72.3	67	53	75	101	112	100	143	182	0
	6.25	4	3	98	98.5	7	17	26	48	4	5	16	35
	12.5	11	4	94.5	98	19	24	44	55	7	18	41	74
	25	9	7	95.5	96.5	20	37	66	86	13	22	62	90
	50	21	14	89.5	93	40	50	92	124	26	46	96	132
	100	47	22	76.5	87.5	76	102	130	139	32	61	116	169
Nap	200	72	36	43	61.3	66	111	175	200	24	87	145	197
	15.75	2	5	94.5	95.5	7	12	41	47	11	15	52	53
	31.5	9	7	95.5	93.5	19	26	40	52	14	23	47	58
	62.5	27	20	89.5	91	27	36	46	69	31	32	54	65
	125	27	33	86.5	90	29	41	65	90	33	39	72	100
	250	37	45	80.5	79	39	51	73	119	44	53	77	125
Control	500	37	50	74	71	40	61	114	200	54	66	139	200
		4	6	98.82	98	7	8	8	11	10	11	11	14

Table S4. Morphological abnormalities of turbot embryos larvae exposed to PAHs in dark: (A) yolk sac alterations, (B) no rupture of the eggs membrane, (C) pericardial edema, (D) skeletal deformities.

Exposure type	[μgL^{-1}]	(48 h) hatching success			(96 h) Larval survival			
		A	B	C	A	B	C	D
Pyr	1.25	1	1	0	0	0	0	0
	2.5	1	3	2	0	0	0	0
	5	1	2	1	0	0	1	1
	10	1	2	0	0	0	2	1
	20	3	3	1	1	0	2	1
	40	3	4	1	2	0	2	4
Fl	6.25	0	1	0	0	1	0	0
	12.5	0	3	2	1	0	0	0
	25	2	2	1	2	0	1	1
	50	2	2	0	3	1	1	0
	100	4	3	0	4	0	2	3
Phe	200	4	3	3	4	1	2	3
	6.25	0	1	0	0	0	0	0
	12.5	1	3	2	0	0	0	0
	25	1	2	1	0	0	1	1
	50	1	2	0	0	0	1	2
	100	3	3	1	0	0	1	3
Nap	200	3	3	1	1	0	1	2
	15.75	0	1	0	0	1	0	0
	31.5	0	1	2	0	0	0	0
	62.5	0	1	1	1	0	0	0
	125	2	1	0	0	1	0	1
	250	3	3	1	2	0	1	1
Control	500	4	3	2	3	1	2	2
	-	0	1	0	1	0	1	0

Table S5. Morphological abnormalities of turbot embryos and larvae exposed to test toxicants under artificial light: (A) yolk sac alterations, (B) no rupture of the eggs membrane, (C) pericardial edema, (D) skeletal deformities.

Exposure	[$\mu\text{g L}^{-1}$]	(48 h) hatching success			(96 h) Larval survival			
		A	B	C	A	B	C	D
Pyrene	1.25	1	1	0	0	0	0	1
	2.5	1	3	2	1	0	1	2
	5	1	2	1	2	0	1	3
	10	1	2	0	2	0	2	2
	20	3	3	1	3	0	2	3
	40	3	4	1	4	0	4	4
fluoranthene	6.25	0	1	0	0	1	0	0
	12.5	0	3	2	1	0	1	1
	25	2	2	1	2	0	1	1
	50	2	2	0	3	1	3	2
	100	4	3	0	5	0	3	3
	200	4	3	3	4	1	4	4
phenanthrene	6.25	0	1	0	0	0	0	0
	12.5	1	3	2	1	0	1	0
	25	1	2	1	2	0	1	2
	50	1	2	0	2	0	2	2
	100	3	3	1	3	0	2	4
	200	3	3	1	3	0	4	2
Naphthalene	15.75	0	1	0	0	1	0	0
	31.5	0	1	2	1	0	1	1
	62.5	0	1	1	2	0	1	1
	125	2	1	0	3	1	2	1
	250	3	3	1	5	0	3	3
	500	4	3	2	4	1	3	3
	control	1	2	0	1	0	1	2