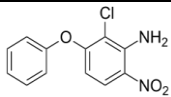
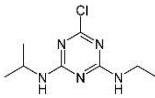
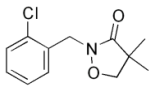
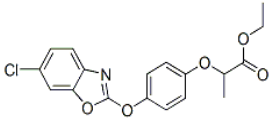
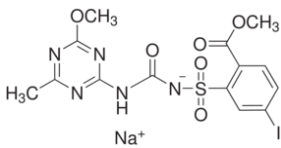
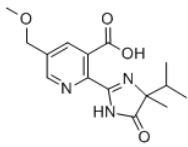
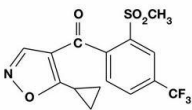
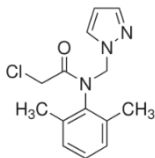
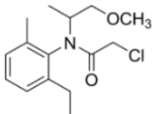
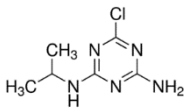
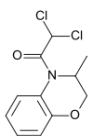


1 **Online Table 1:** Chemical formula and CAS numbers of the tested agrochemicals. Four,
 2 three and two letters abbreviation were attributed to each of the herbicides, the metabolite,
 3 and the safener, respectively.

Compound	Abbreviation	Chemical formula	CAS number
aclonifen	ACLO		74070-46-5
atrazine	ATRA		1912-24-9
clomazone	CLOM		81777-89-1
fenoxaprop-P-ethyl	FENO		71283-80-2
iodosulfuron-methyl-sodium	IODO		144550-36-7
imazamox	IMAZ		114311-32-9
isoxaflutole	ISOX		141112-29-0
metazachlor	META		67129-08-2
S-metolachlor	SMET		87392-12-9
desethylatrazine	DEA		6190-65-4
benoxacor	BE		98730-04-2

5 **Online Table 2:** Growth stimulation induced by the agrochemicals and their
6 mixtures/combinations evaluated as a hormetic effect. Statistically significant ($P < 0.05$)
7 maximum percentage of growth stimulation and the corresponding concentration (nM) for
8 each compound or the fraction of RCV recorded for each mixture/combination tested on the
9 three species are indicated in brackets. For each event, the hormesis evidence category is
10 indicated by NL, No-Low; L, Low; LM, Low-Moderate; M, Moderate; MH, Moderate-High;
11 H, High). A dash indicates that no calculation could be performed. NT, not tested.
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Chemicals and mixtures	<i>Desmodium subspicatus</i>		<i>Nitzschia palea</i>		<i>Navicula pelliculosa</i>	
ACLO	-	-	-	-	-	-
ATRA	10 (636)	L	24 (1 132)	L	10 (636)	L
CLOM	18 (1 020)	H	43 (570)	H	12 (1 020)	L
FENO	-	-	-	-	-	-
IMAZ	-	-	20 (362)	NL	-	-
IODO	32 (92.8)	M	39 (290)	H	-	-
ISOX	-	-	-	-	-	-
META	29 (206)	H	11 (64.4)	L	-	-
SMET	21 (95.4)	L	10 (30)	L	-	-
DEA	20 (8 950)	LM	18 (15900)	L	-	-
BE	30 (2 400)	H	38 (4 296)	H	-	-
MixAll	-	-	-	-	-	-
MixDs	-	-	-	-	13 (5.66)	L
MixDsw/oIODO	-	-	20 (5.66)	NL	14 (1.00)	L
IODO+BE1	34 (0.32)	M	NT	-	NT	-
IODO+BE2	42 (0.32)	M	NT	-	NT	-

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15 **Online Figure 1:** The absorption 3D spectra determined for the COMBO medium alone and
16 each microalga grown in this medium using a Fluorolog-3 spectrophotometer.

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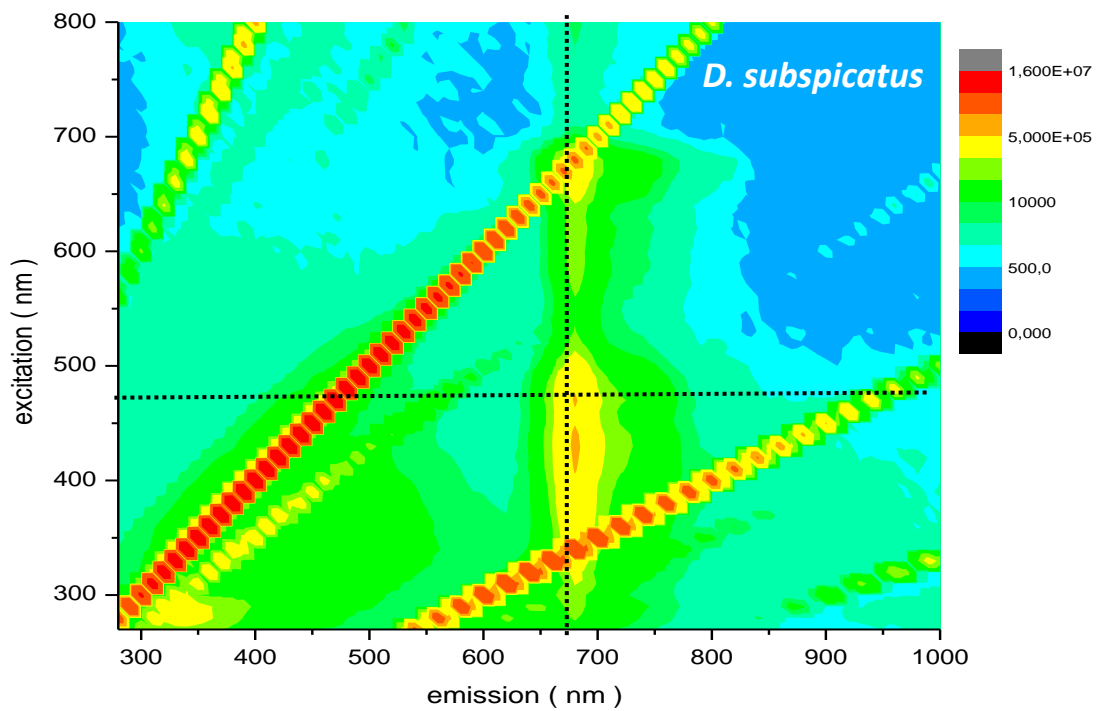
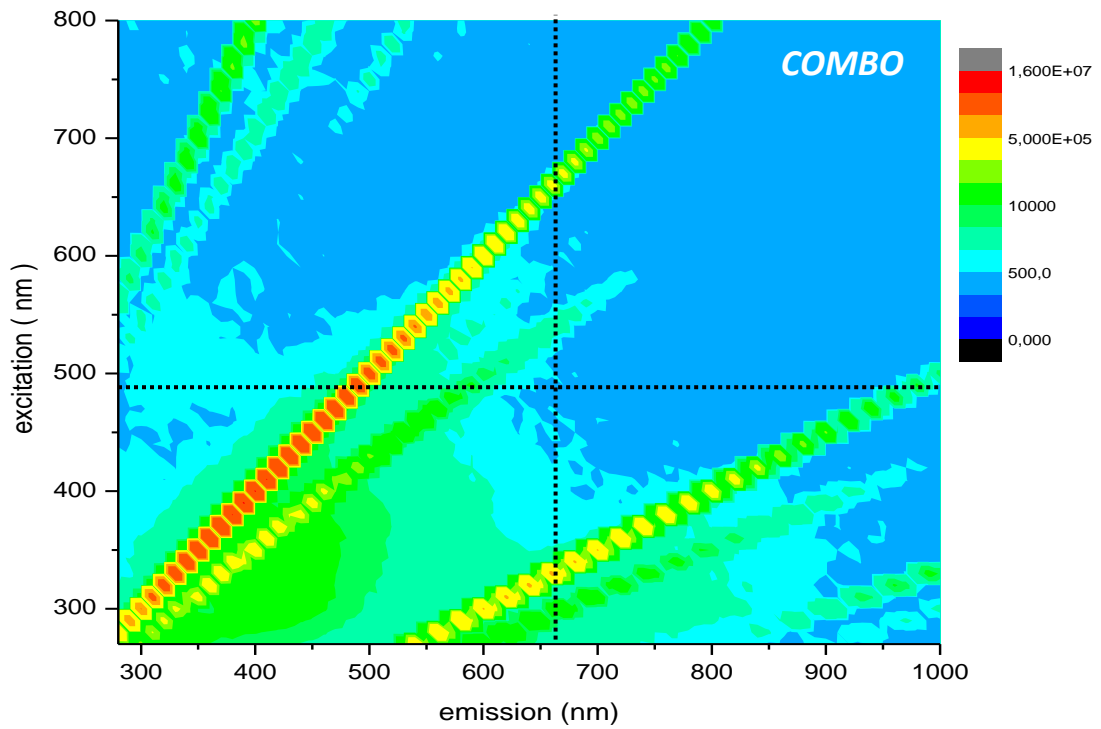
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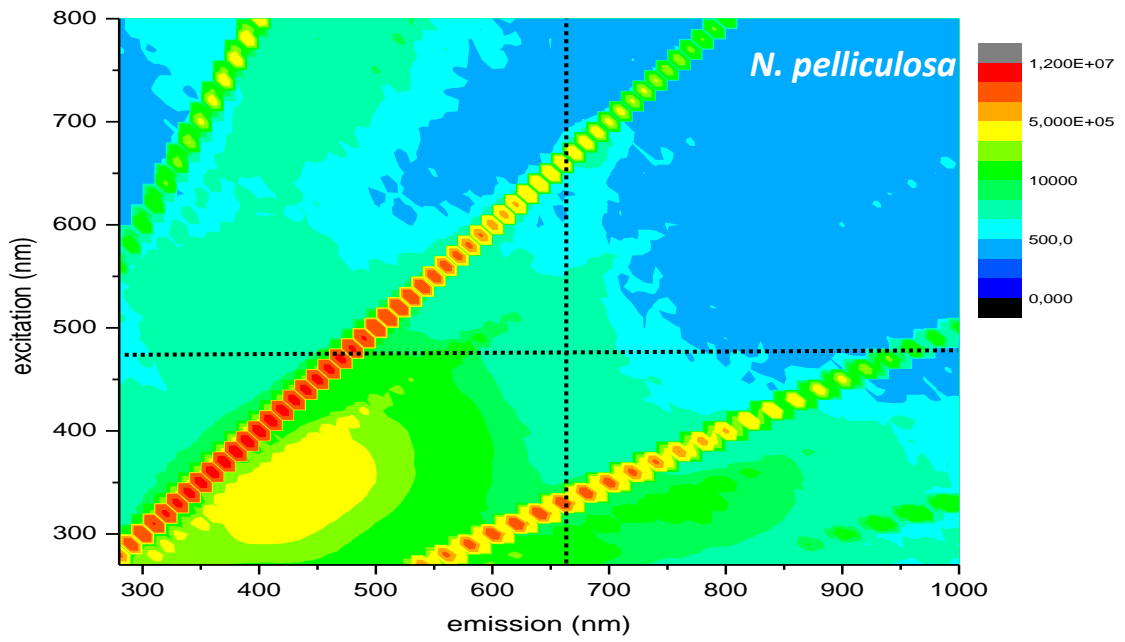
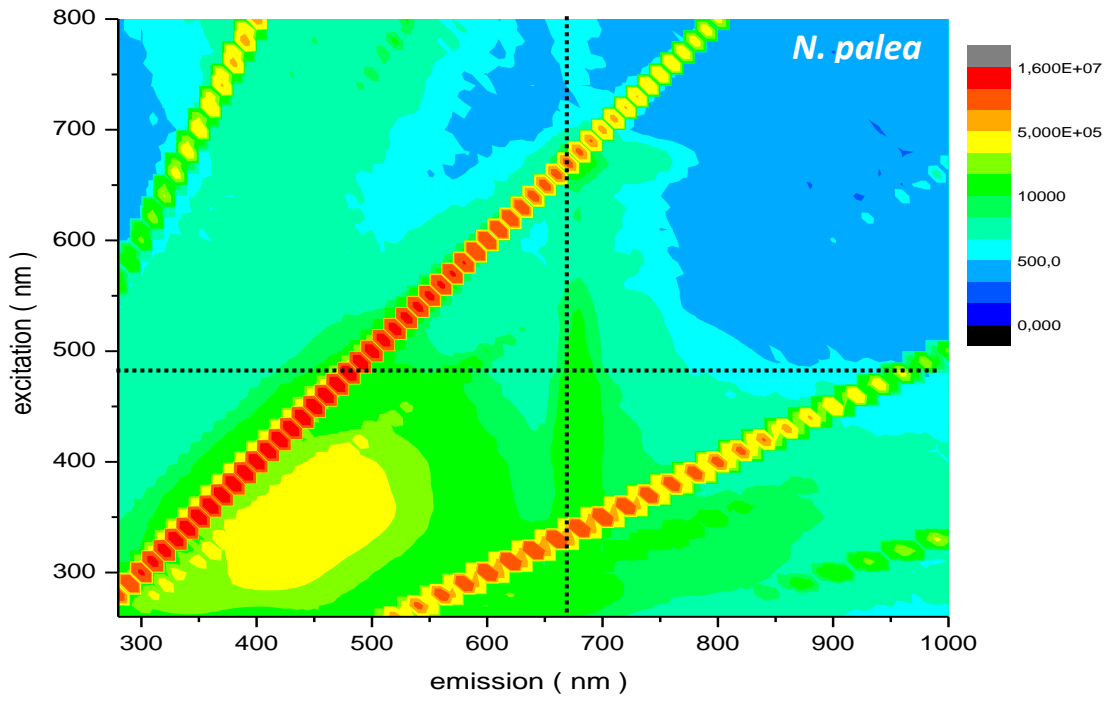
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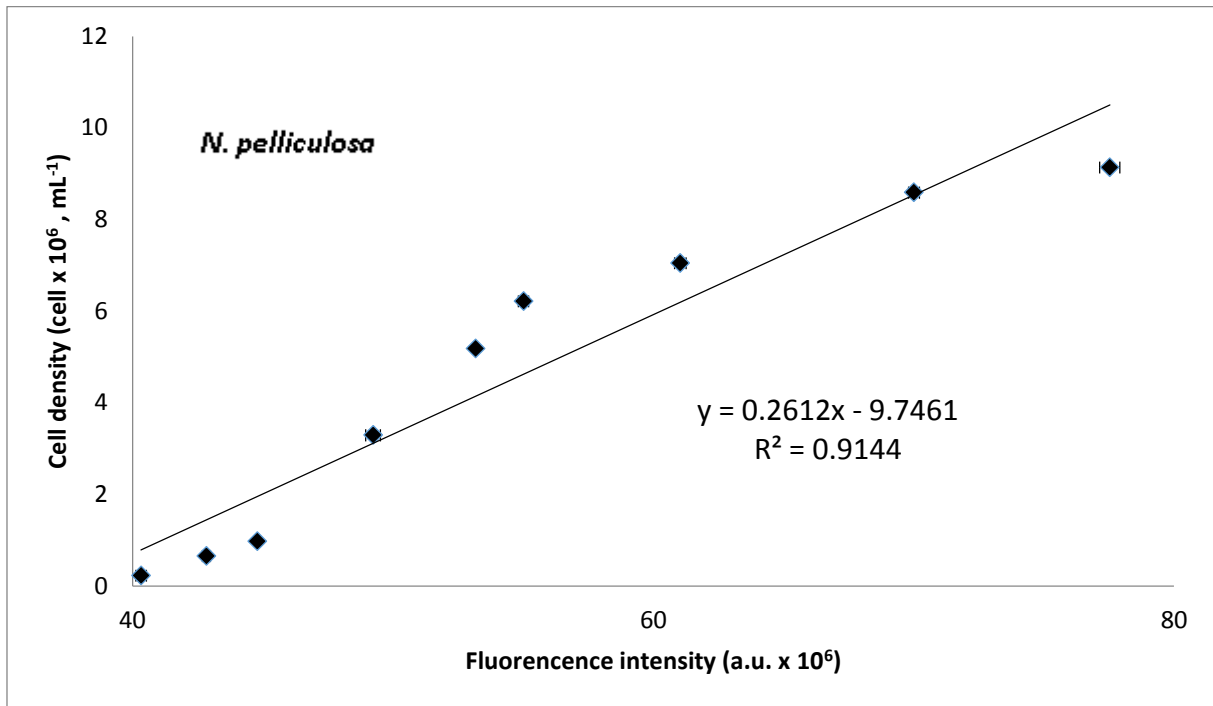
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56 **Online Figure 2:** Relationship between fluorescence intensity and cell density after 96h of
57 growth of the green alga the diatom *N. pelliculosa*. Each determination was carried out in
58 triplicates. Error bars, SD.

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63 **Online Figure 3:** Brain-Cousens model fits of the dose-response of *Desmodesmus*
 64 *subspicatus* to the agrochemicals after 96h of growth. (A) The five active compounds (+, IODO; ×, META; □, ATRA; △, FENO; ○, DEA). The fits of ATRA and FENO were
 65 performing with the lower limit c set to 0; (B) The mixtures containing IODO (+, IODO; ▽, MixDs; ☒, MixDsw/oIODO; ◇, MixAll); (C) The combinations of IODO and
 66 BE (+, IODO; *, IODO+BE1; ⋄, IODO+BE2). The fit of the combination IODO+BE2
 67 was performing with the lower limit c set to 0. The molar concentrations of the agrochemicals
 68 corresponding to each fraction of RCV are those attributed to them in Table 1 and 2.
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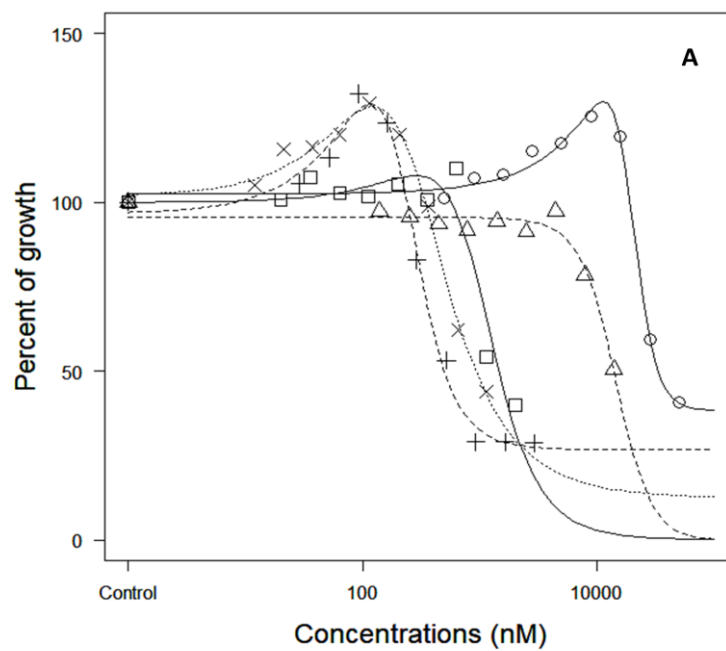
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