

**Supplementary Table S1.** Comparison of the cytotoxicity induced by CPO, AZO and Aldicarb to undifferentiated versus differentiated SH-SY5Y cells.

Pesticide	Treatments	MTT assay	LDH assay	Treatments	ATP assay	ROS assay		PCC assay
CPO	1	NS	0.0216	IC <sub>10</sub> IC <sub>20</sub> IC <sub>50</sub> IC <sub>80</sub>		6 hours	24 hours	<0.0001 0.0004 <0.0001 <0.0001
	10	NS	0.0002		NS	0.0022	0.0002	
	20	0.0005	NS		0.0031	NS	NS	
	50	<0.0001	<0.0001		<0.0001	<0.0001	0.0002	
	100	NS	0.0008		NS	<0.0001	0.0012	
	200	NS	NS					
AZO	1	0.0253	0.0056	IC <sub>10</sub> IC <sub>20</sub> IC <sub>50</sub> IC <sub>80</sub>	NS	<0.0001	<0.0001	<0.0001
	10	<0.0001	NS		0.0444	<0.0001	<0.0001	<0.0001
	20	0.0006	0.0145		NS	<0.0001	<0.0001	<0.0001
	50	NS	NS		0.0270	<0.0001	<0.0001	<0.0001
	100	NS	NS					
	200	NS	NS					
Aldicarb	1	NS	NS	IC <sub>10</sub> IC <sub>20</sub> IC <sub>50</sub> IC <sub>80</sub>				
	10	NS	<0.0001		NS	NS	NS	<0.0001
	20	0.0361	NS		NS	0.0006	0.0066	<0.0001
	50	0.0015	NS		0.0005	<0.0001	<0.0001	<0.0001
	100	NS	NS		NS	<0.0001	<0.0001	0.1945
	200	NS	NS					

Undifferentiated or differentiated SH-SY5Y cells were treated with chlorpyrifos-oxon (CPO), Azamethiphos-oxon (AZO) or aldicarb. Cell viability measurements were made using MTT, LDH or ATP levels and the production of ROS and PCC was quantified. Comparisons between assays means were made by a two-way ANOVA with Tukey's multiple comparison tests and the values shown for significant changes are marked or listed as NS for non-significant.

Abbreviations: ATP, Adenosine triphosphate; IC, inhibitor concentration (producing 10-80% inhibition); LDH, Lactate dehydrogenase; MTT, (4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide; PCC, protein carbonyl content; ROS, reactive oxygen species.