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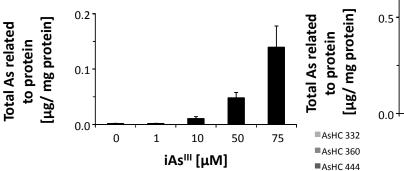
Electronic Supplementary Information (ESI)

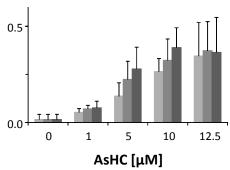
Arsenolipids exert less toxicity in a human neuron astrocyte co-culture as compared to the respective monocultures

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Supplementary data

Α





В

	co-culture		monoculture	
arsenic compound	neurons [ng As/ mg protein]	astrocytes [ng As/ mg protein]	neurons* [ng As/ mg protein]	astrocytes [ng As/ mg protein]
control	2 ± 1	1 ± 1	5 ± 5	1 ± 1
iAs ^{III}	29 ± 1	60 ± 20	-	10 ± 4
AsHC 332	204 ± 76	617 ± 125	960 ± 280	265 ± 68
AsHC 360	450 ± 98	658 ± 219	3708 ± 1924	323 ± 111
AsHC 444	180 ± 66	349 ± 157	1001 ± 351	389 ± 103

Total arsenic concentrations related to the protein content were measured in the human astrocytes after 48 h of incubation with iAs^{III} or AsHCs. Shown are mean values of at least three independent determinations + SD (A). Total arsenic concentrations related to protein content were measured in the co-culture (neurons and astrocytes separately) and in the monocultures (neurons and astrocytes) after incubation with 10 μ M of the respective arsenic compound for 48 h. Shown are mean values of at least three independent determinations \pm SD. * results of fully differentiated neurons already published⁵ – were not measured due to strong cytotoxic effects (10% cell viability) (B).