Reviewer's report

Title: Perinatal exposure to a chemical mixture based on Arctic maternal body burden results in a long-term elevation of hypothalamic cytokines.

Version: 1 Date: 8 February 2011

Reviewer: Birger Heinzow

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several previous studies used the NCM (nordic chemical mixture) as established in the cited paper by Chu et al.,

still the description of the preparation of the solution and the dosing reads cryptic. What I do not understand is the term high dose solution since only one dose was used. e.g.: "The dosing solution for the high dose of the full mixture...."

I wonder why the authors did not refer to the other relevant citations in this setting:

Contribution of methylmercury, polychlorinated biphenyls and organochlorine pesticides to the toxicity of a contaminant mixture based on Canadian Arctic population blood profiles.

Toxicological effects of in utero and lactational exposure of rats to a mixture of environmental contaminants detected in Canadian Arctic human populations.

Gene expression profiling in rat cerebellum following in utero and lactational exposure to mixtures of methylmercury, polychlorinated biphenyls and organochlorine pesticides.

I saw some minor spelling errors

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
no conflict of interest