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FLASH UPDATE

<http://agentorangezone.blogspot.com/>

Friday, March 30, 2012

[Transgenerational actions of environmental compounds on reproductive disease and identification of epigenetic biomarkers of ancestral exposures.](#)

Manikkam M, Guerrero-Bosagna C, Tracey R, Haque MM, Skinner MK.

Source

Center for Reproductive Biology, School of Biological Sciences, Washington State University, Pullman, Washington, United States of America.

Abstract

Environmental factors during fetal development can induce a permanent epigenetic change in the germ line (sperm) that then transmits epigenetic transgenerational inheritance of adult-onset disease in the absence of any subsequent exposure. The epigenetic transgenerational actions of various environmental compounds and relevant mixtures were investigated with the use of a pesticide mixture (permethrin and insect repellent DEET), a plastic mixture (bisphenol A and phthalates), dioxin (TCDD) and a hydrocarbon mixture (jet fuel, JP8). After transient exposure of F0 gestating female rats during the period of embryonic gonadal sex determination, the subsequent F1-F3 generations were obtained in the absence of any environmental exposure. The effects on the F1, F2 and F3 generations pubertal onset and gonadal function were assessed. The plastics, dioxin and jet fuel were found to promote early-onset female puberty transgenerationally (F3 generation). Spermatogenic cell apoptosis was affected transgenerationally. Ovarian primordial follicle pool size was significantly decreased with all treatments transgenerationally. Differential DNA methylation of the F3 generation sperm promoter epigenome was examined. Differential DNA methylation regions (DMR) were identified in the sperm of all exposure lineage males and found to be consistent within a specific exposure lineage, but different between the exposures. Several genomic features of the DMR, such as low density CpG content, were identified. Exposure-specific epigenetic biomarkers were identified that may allow for the assessment of ancestral environmental exposures associated with adult onset disease.

Wednesday, March 28, 2012

[Does Paternal Exposure to Agent Orange Cause Birth Defects?
YOU BET IT DOES!!!](#)

The COMMENTARY from F. Clarke Fraser, Molson Professor Emeritus of Human Genetics, McGill University, Montreal, PQ, Canada was posted in error...his own statement at the conclusion of his article, "*The fact that I am a consultant for Dow and Monsanto has had no influence on the content of this article*" is just a little disingenuous...AOZ thinks perhaps Mr. Fraser is under the influence of too much Molson, putting his claim that his work for Dow and Monsanto does not influence his opinion into the realm of nonsense. AOZ regrets the error.

Monday, March 26, 2012

[Monsanto-Death is Our Business, and Business is Good](#)

<http://www.opednews.com/articles/Monsanto-a-half-century-o-by-Soren-Seelow-Le-M-120325-363.html>

The giant U.S. agribusiness Monsanto was found guilty on Monday Feb. 13, after being sued by a small farmer from Charente who had been poisoned by a herbicide. This event is a first in France. On the scale of the history of the one-hundred-year-old multinational, this sentence constitutes just one more episode in an already long record of court procedures.

PCBs, Agent Orange, dioxin, GMO, Aspartame, growth hormones, herbicides (Lasso and Roundup) ... a number of products that have made the fortune of Monsanto, have been marred by health scandals and trials sometimes leading to their prohibition. But nothing has so far hindered the irresistible rise of this former chemical giant who converted back to biogenetics and has mastered the art of lobbying. Portrait of a multinational multi-recidivist.

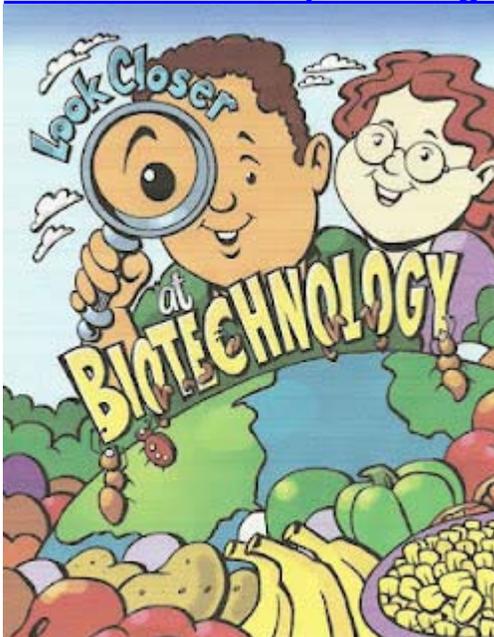
READ MORE: <http://www.opednews.com/articles/Monsanto-a-half-century-o-by-Soren-Seelow-Le-M-120325-363.html>

[Agent Orange/Dioxin related illnesses](#)

Mayo Clinic Agent Orange discussion

<http://connect.mayoclinic.org/discussions/1878-agent-orange-dioxin-related-illnesses?reply=9043#9043>

[Monsanto is now producing work books for our children at school](#)



On Jan. 21, 2010, with its ruling in Citizens United v. Federal Election Commission ([558 U.S. 08-205 \(2010\)](#)), the U.S. Supreme Court ruled that corporations are people and, as such, are entitled to First Amendment rights...

Personhood does not confer morality or a sense of right and wrong.

<http://www.whypiotech.com/resources/Kids-Biotech-Basics-Activity-Book.pdf>