

Reducing Synthetic Pesticides and Fertilizers

Ubuntu ungamntu ngabanye abantu

Bantu proverb "People are people through other people".





LABORATORY FOR INTEGRATIVE STUDIES IN AMPHIBIAN BIOLOGY





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Funded by:

The National Science Foundation, Novartis, Syngenta Crop Protection, Ecorisk, the World Wildlife Fund, the Alton Jones Foundation, the Homeland Foundation, the Rose Foundation, Park-Water Company, the Biofaculty Award [UCB], Distinguished Mentor Award (UCB), Ceres Trust, **Distinguished Teaching Award (UCB), the Mitchell Kapor** Foundation, the David Foundation, the Cornell-Douglas Foundation, the Wallace Global Fund, the Class of '43 Endowed Chair (UCB), the Toxic Substances Research and Teaching Program (UCB), Hewlett Packard, the Biology Fellows Program (Howard Hughes Medical Institute), the **McNair Scholars Program (UCB), the Amgen Scholars Program (UCB), and the Mentored Research fellowship** program (UCB), Marisla Foundation, Beyond Pesticides



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PESTICIDES

PESTICIDES (TO KILL)

BIOCIDES

INSECTICIDES

FUNGICIDES

HERBICIDES











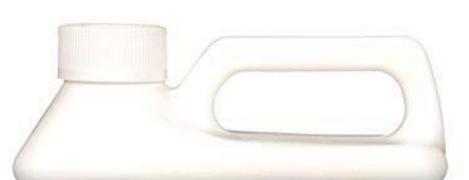




CANCER INFERTILITY HORMONE PROBLEMS







2,4-D AMINE WEED KILLER

SELECTIVE BROADLEAF WEED CONTROL

KEEP OUT OF REACH OF CHILDREN DANGER-PELIGRO

Si usted no entiende la eliqueta, tuaque alguén para que se la explique en debale. (if you de not understand the label, find someone lo explaie (it lo you in debal.)

See Inside of labet bookbel for additional Precautionary Statements, First Aid, and Directions for Use. FOR BROADLEAF WEED CONTROL IN: PASTURES AND RANGELAND, LAWNS, GOLF COURSES, CEMETERIES, PARKS, AND SIMILAR ORNAMENTAL TURF, FOR FENCES, DITCHBANKS,



Net Contents Liquid: 1 Quart (.946 liters)









Endocrine Disruptors:



 For the Control of Both Emerged Woods and Woods From Servic in St. Augustinegroup and Geolopologroup - Controls Listed Tough Woods - One Gaurt Covers 3,720 Sq. Pl. - Situps, per 100 Sq. Pl.

ILL CONTRACT ONE OF ADDRESS OF ADDRESS

Chemicals that mimic hormones or interfere with hormone synthesis, transport, action, or degradation







Female



Control Testosterone Estradiol





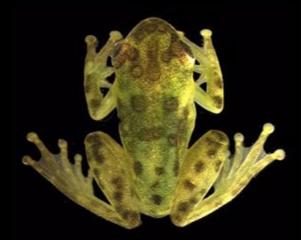


1 2 3 4 5 6



Control







Estradiol Ethynyl-E2



DDT

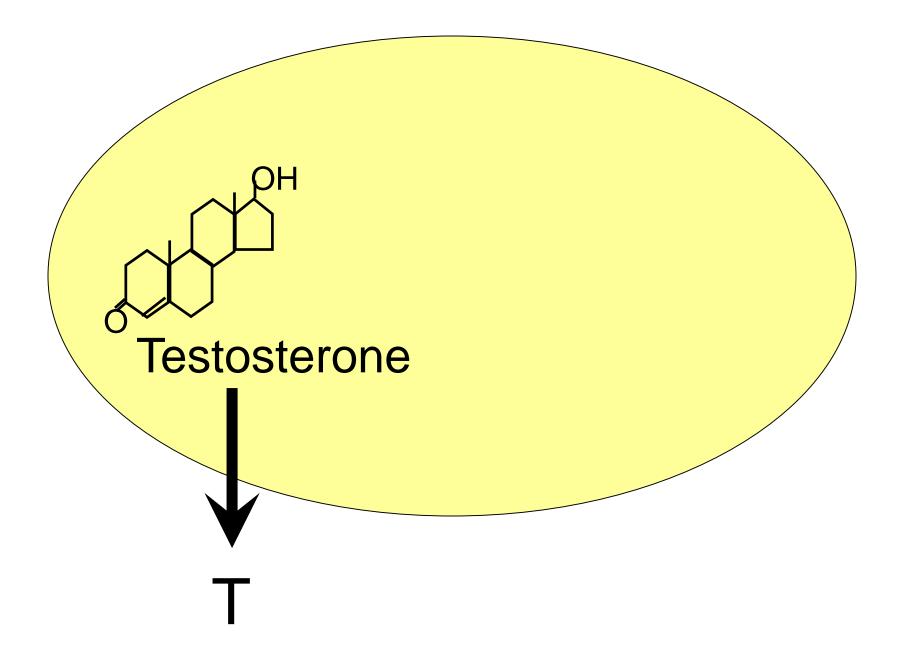


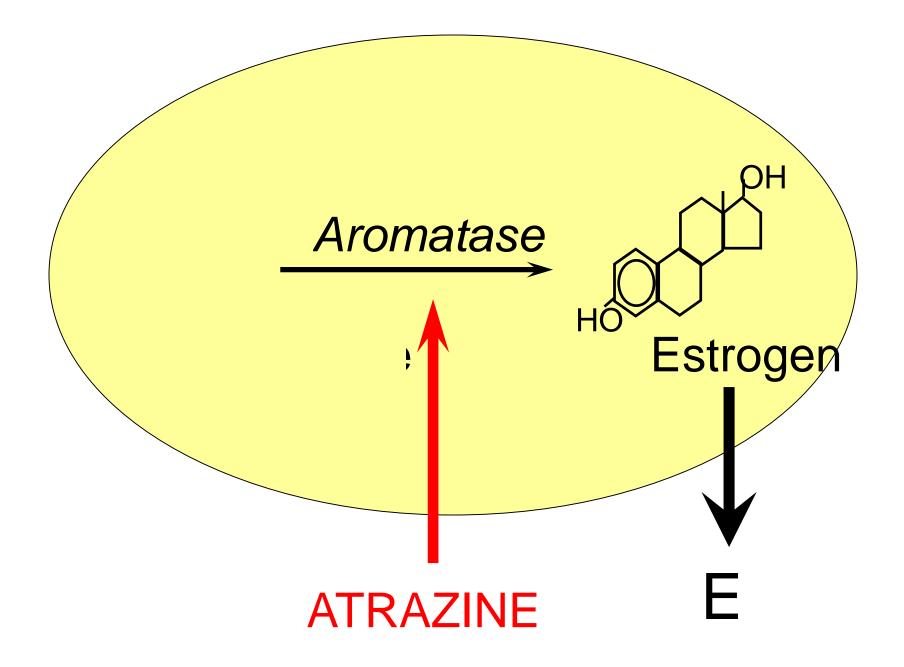
Estrogen + Tamoxifen

ATRAZINE

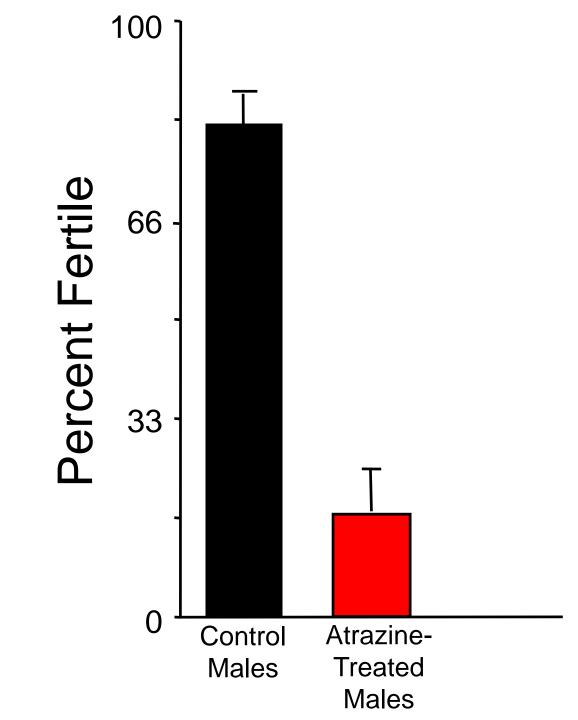
80 MILLION POUNDS HISUSED INED MORETHAN 80 COUNTRIES

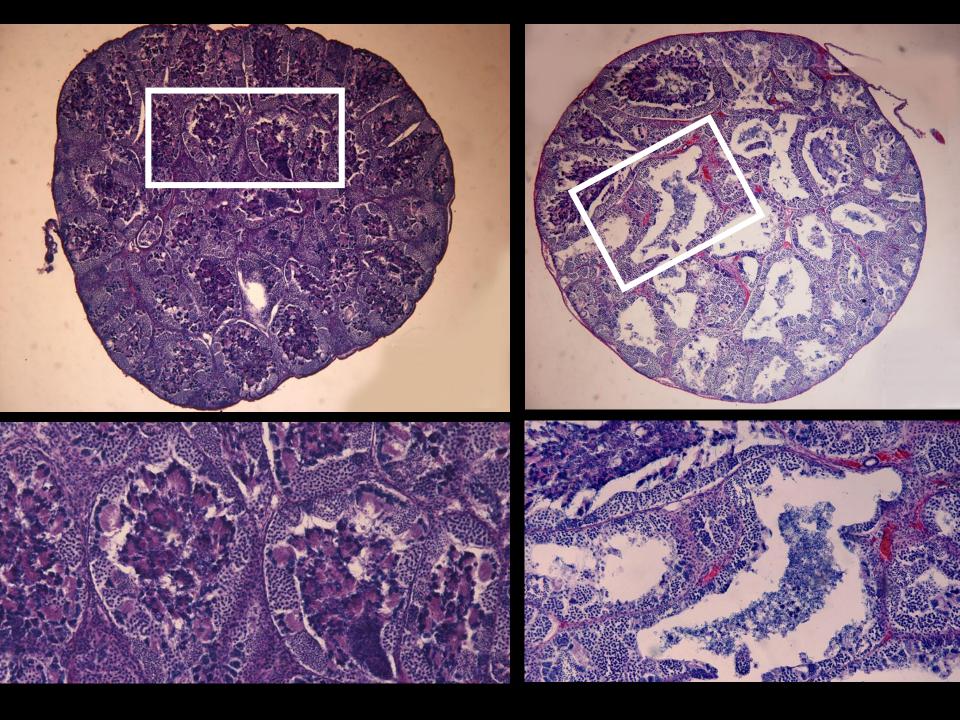






ATRAZINE EMASCULATES MALES





Fish (Kestemont *et al.*)

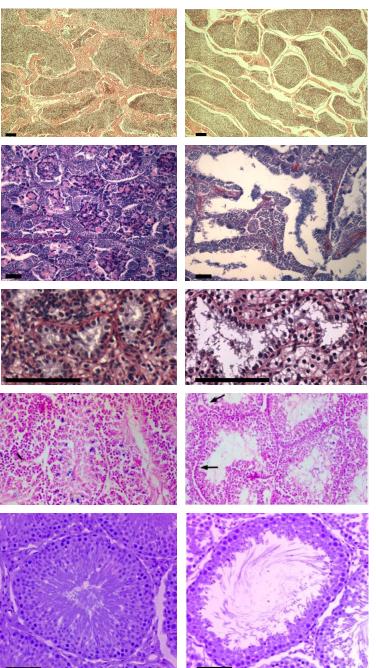
Amphibians (Hayes *et al.*)

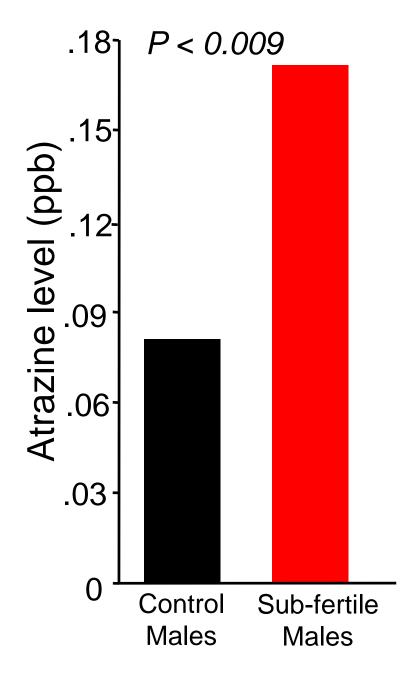
Reptiles (Muñoz-de-Toro *et al.*)

Birds (Hussain *et al.*)

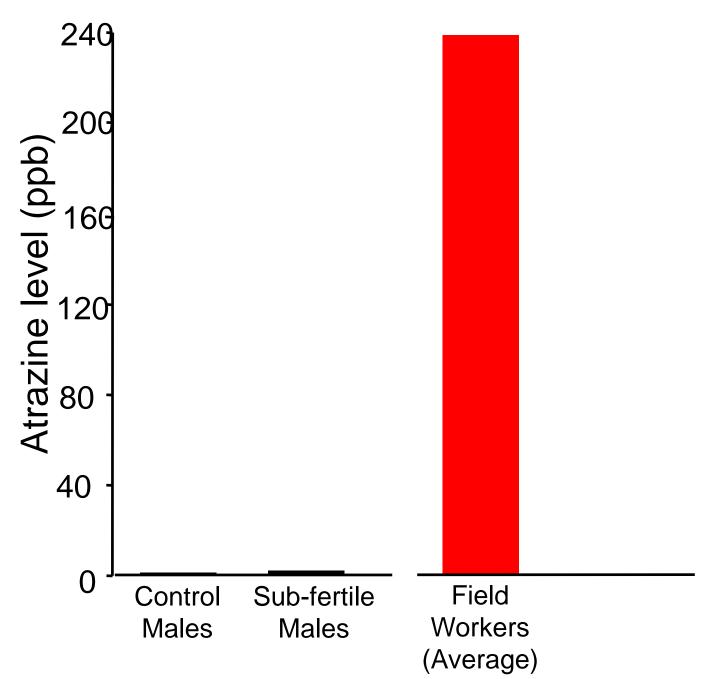
Mammals (Victor-Costa *et al.;* Kniewald *et al*)

Control Atrazine

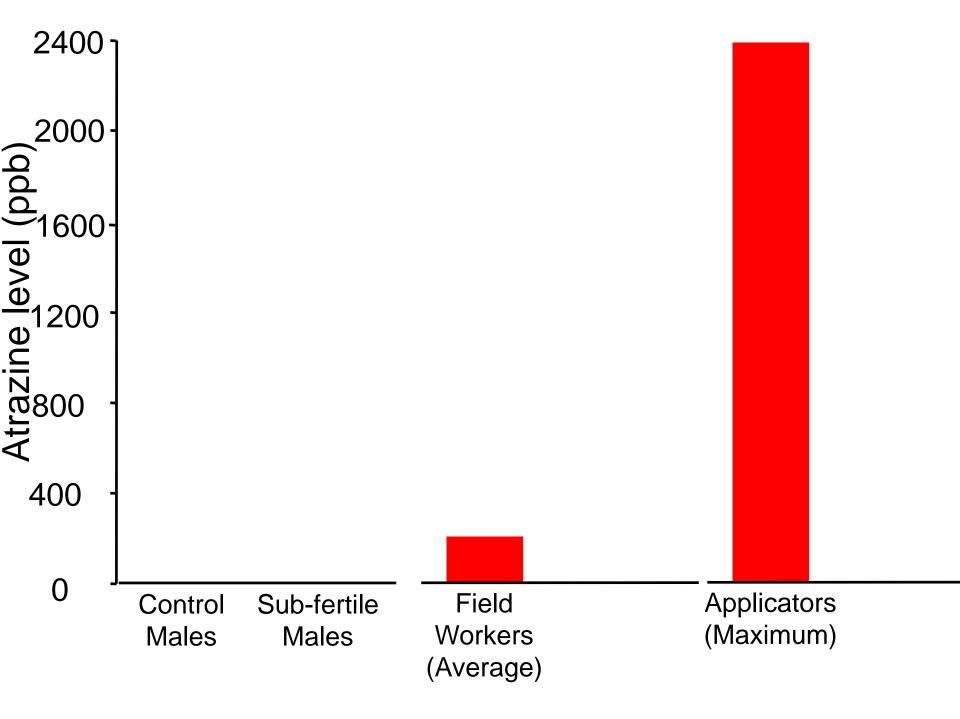




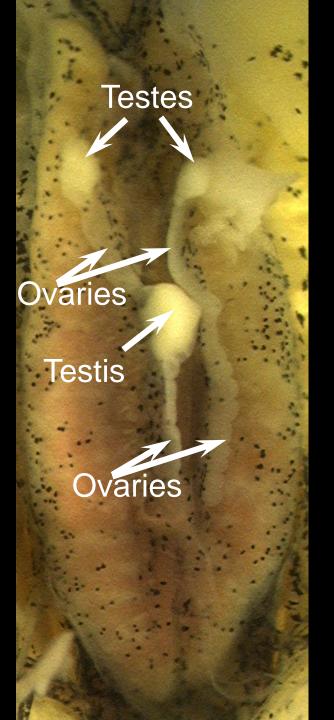
In humans Swan *et al*., 2003



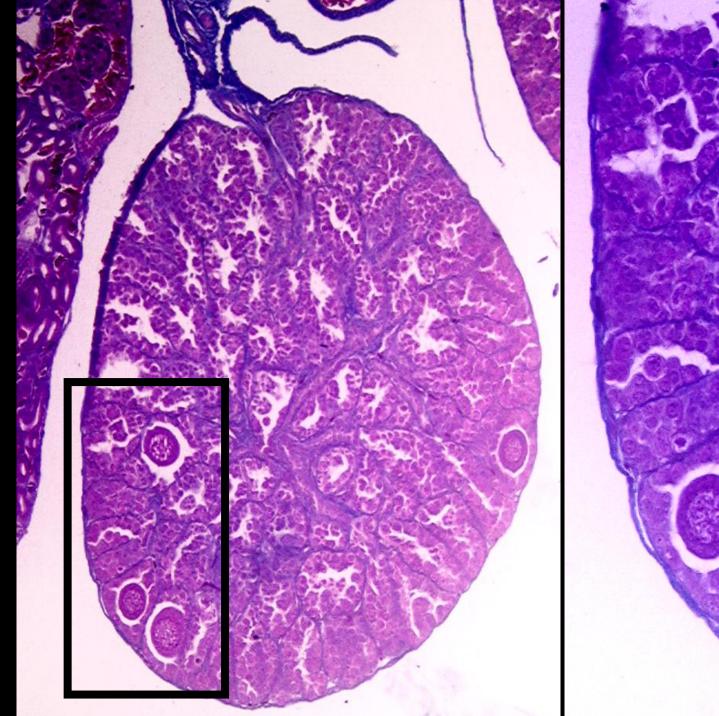
Lucas et al. 1993

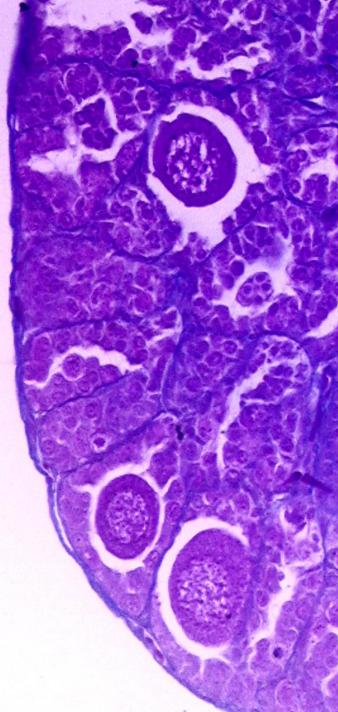


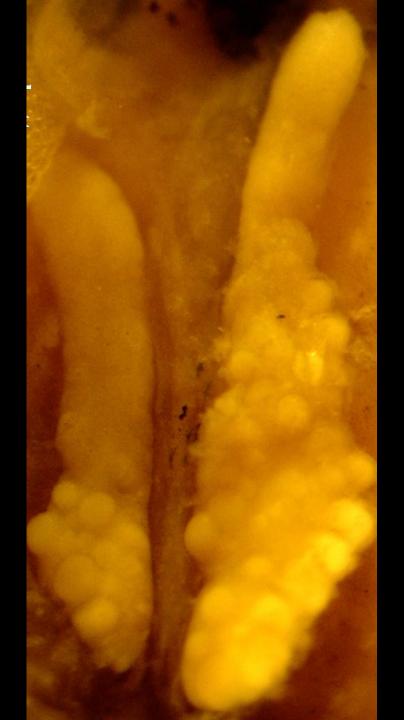
ATRAZINE FEMINIZES MALES







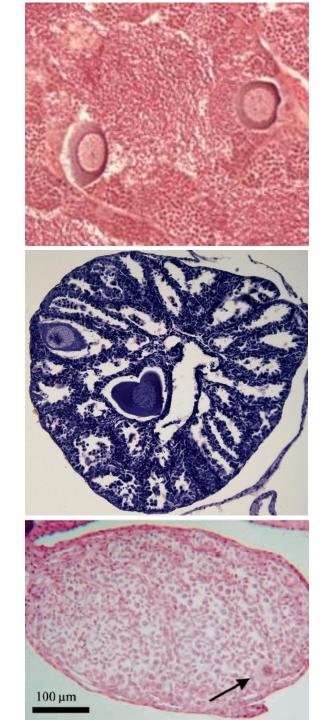


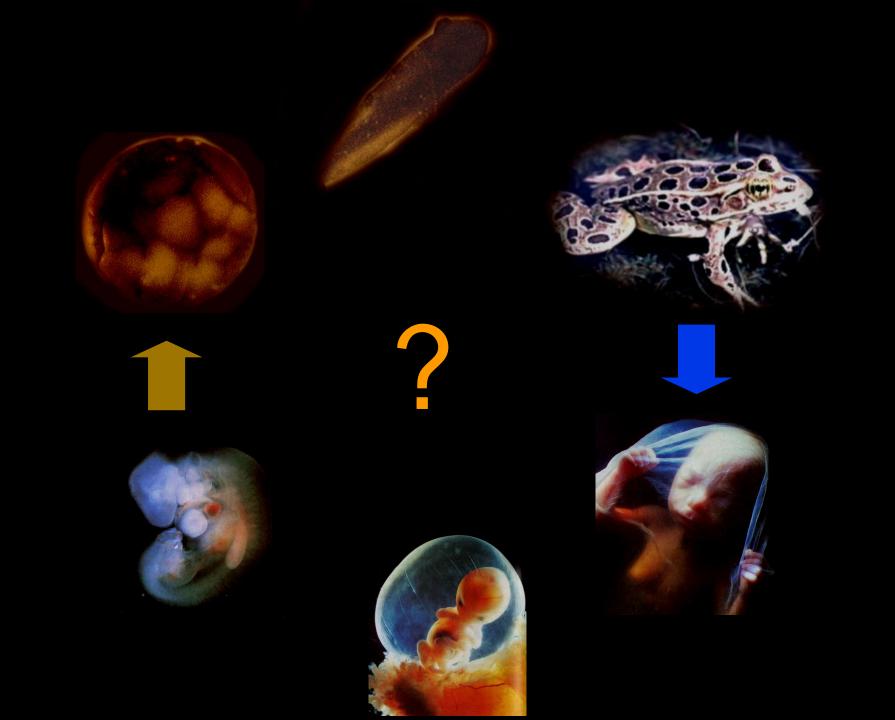


Fish (Tillit *et al.*)

Amphibians (Hayes *et al.*)

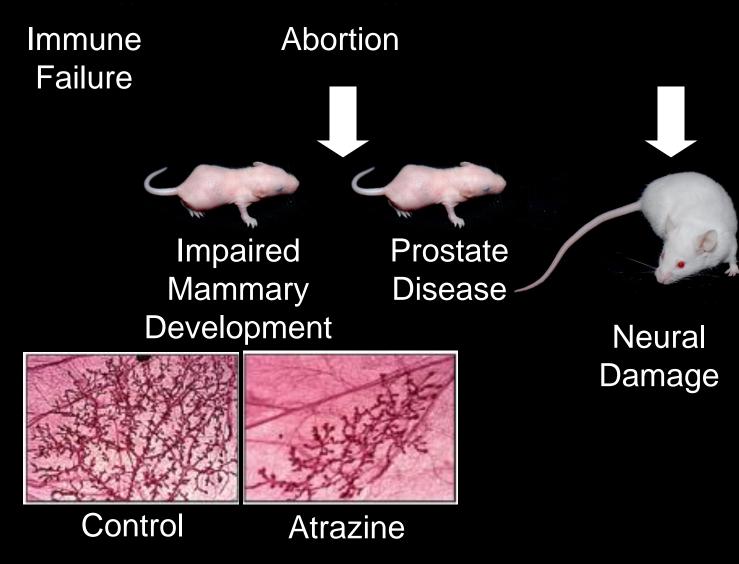
Reptiles (de Solla *et al.*)







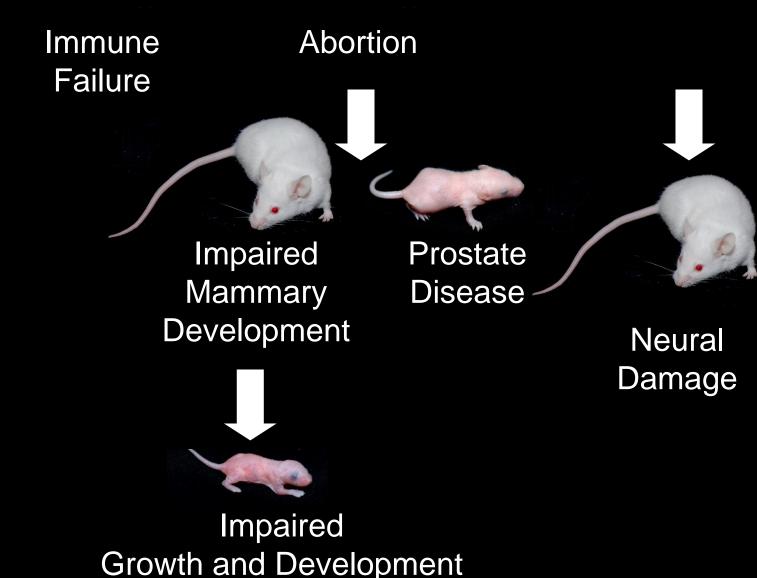
Prostate And Mammary Cancer





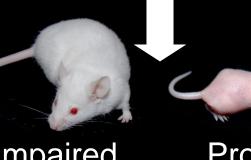


Prostate And Mammary Cancer





Abortion

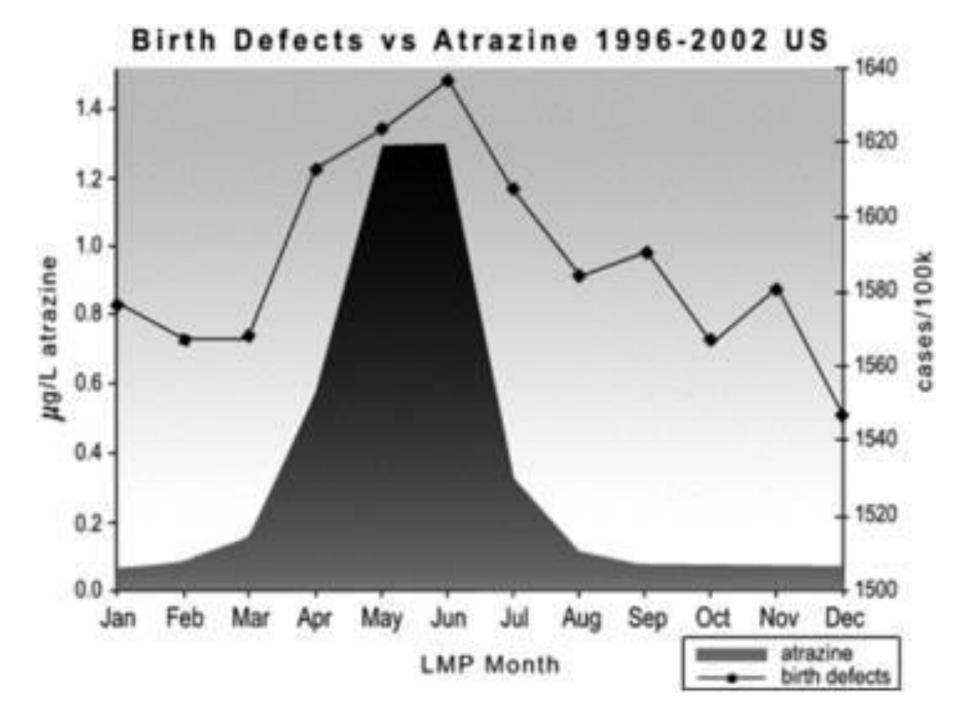


Impaired Mammary Development Prostate Disease



Impaired Growth and Development





Agricultural-related chemical exposures, season of conception, and risk of gastroschisis in Washington State

Sarah A. Waller, MD; Kathleen Paul, MPH; Suzanne E. Peterson, MD; Jane E. Hitti, MD, MPH



OBJECTIVE: We sought to determine if periconceptional exposure to agrichemicals was associated with the development of gastroschisis.

STUDY DESIGN: We conducted a retrospective, case-controlled study using Washington State Birth Certificate and US Geological Survey databases. Cases included all live-born singleton infants with gastroschisis. Distance between a woman's residence and site of elevated exposure to agrichemicals was calculated. Multivariate regression was used to estimate the association between surface water concentrations of agrichemicals and the risk of gastroschisis.

RESULTS: Eight hundred five cases and 3616 control subjects were identified. Gastroschisis occurred more frequently among those who resided <25 km from a site of high atrazine concentration (odds ratio, 1.6). Risk was related inversely to the distance between the maternal residence and the closest toxic atrazine site. In multivariate analysis, nulliparity, tobacco use, and spring conception remained significant predictive factors for gastroschisis.

CONCLUSION: Maternal exposure to surface water atrazine is associated with fetal gastroschisis, particularly in spring conceptions.

Key words: abdominal wall defect, atrazine, gastroschisis, herbicide

CONCLUSION: Maternal exposure to surface water atrazine is associated with fetal gastroschisis, particularly in spring conceptions.

This is gastroschisis...



Maternal Residential Atrazine Exposure and Risk for Choanal Atresia and Stenosis in Offspring

A. Jack Agopian, PhD¹, Yi Cai, MS¹, Peter H. Langlois, PhD², Mark A. Canfield, PhD², and Philip J. Lupo, PhD^{1,3}

Objective To assess the relationship between estimated residential maternal exposure to atrazine during pregnancy and the risk for choanal atresia or stenosis in offspring.

Study design Data for 280 nonsyndromic cases and randomly selected, population-based controls delivered between 1999 and 2008 were obtained from the Texas Birth Defects Registry. County-level estimates of atrazine levels obtained from the US Geological Survey were assigned to cases and controls based on maternal county of residence at delivery. Unconditional logistic regression was used to assess the relationship between maternal residential atrazine exposure and the risk for choanal atresia or stenosis in offspring.

Results Compared with offspring of mothers with low levels of estimated residential atrazine exposure, those with high levels had nearly a 2-fold increase in risk for choanal atresia or stenosis (aOR, 1.79; 95% CI, 1.17-2.74). A significant linear trend was also observed with increasing levels of atrazine exposure (adjusted P = .002).

Conclusion A link between maternal exposure to endocrine disruptors, such as atrazine, and the risk of choanal atresia is plausible based on previous findings. Our results lend further support to this hypothesis. *(J Pediatr 2013;162:581-6)*.

This is choanal atresia...





Case—Control Study of Maternal Residential Atrazine Exposure and Male Genital Malformations

A.J. Agopian,¹ Philip J. Lupo,²* Mark A. Canfield,³ and Peter H. Langlois³

¹Human Genetics Center, Division of Epidemiology, Human Genetics and Environmental Sciences, University of Texas School of Public Health, Houston, Texas

²Department of Pediatrics, Hematology–Oncology Section, Baylor College of Medicine, Houston, Texas

³Birth Defects Epidemiology and Surveillance Branch, Texas Department of State Health Services, Austin, Texas

Manuscript Received: 31 August 2012; Manuscript Accepted: 15 November 2012

Separate unconditional logistic regression analyses were conducted for hypospadias, cryptorchidism, and small penis. We observed modest, but consistent, associations between medium-low and/or medium levels of estimated periconceptional maternal residential atrazine exposure and every male genital malformation category evaluated (e.g., adjusted odds ratio for medium compared to low atrazine levels and all male genital malformations: 1.2, 95% confidence interval: 1.1-1.3). Previous literature from animal and epidemiological studies supports our findings. Our results provide further evidence of a suspected teratogenic role of atrazine.



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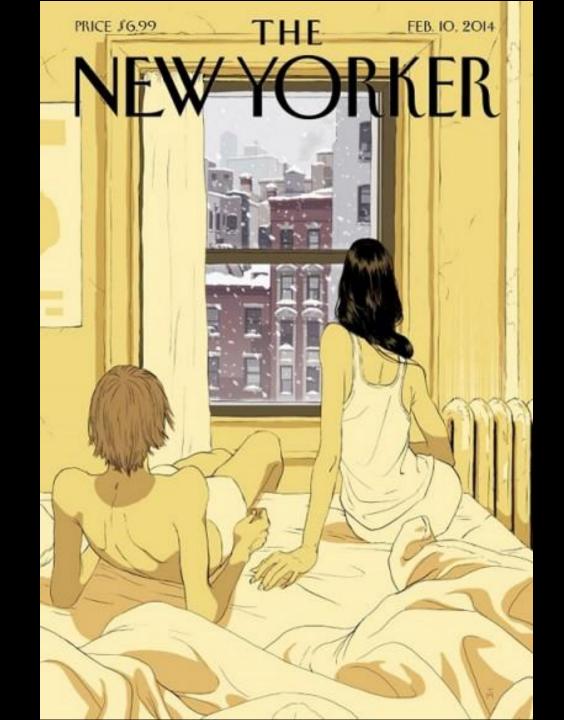
²Department of Pediatrics, Hematology–Oncology Section, Baylor College of Medicine, Houston, Texas

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Government Regulatory **Agencies?**



"a monetary value is assigned to disease, impairments, and shortened lives and weighed against the benefits of keeping a chemical in use."

(United States, Environmental Protesction Agency)

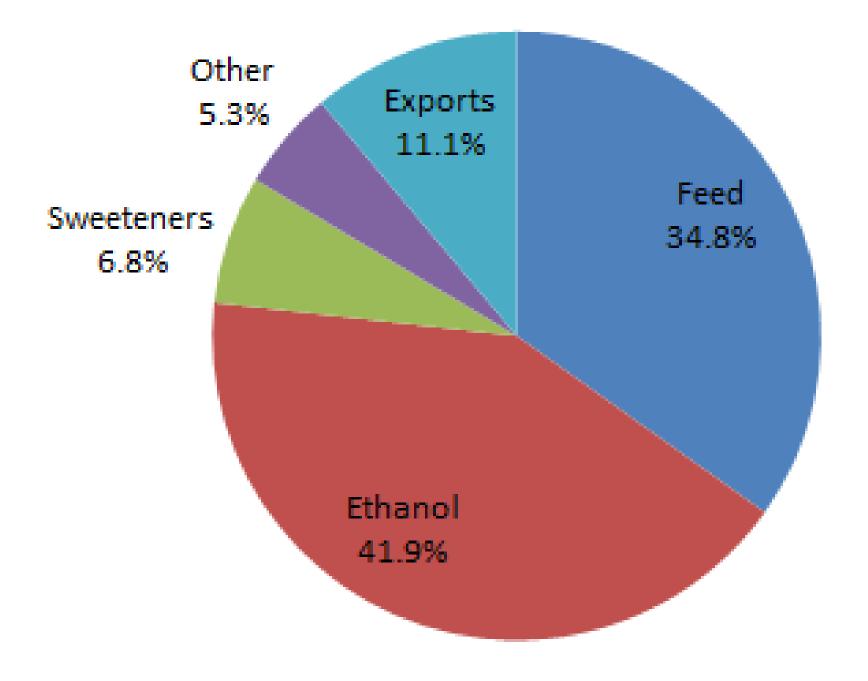








Agribusiness?



FILED UNDER SEAL

Privileged and Confidential

Education / Awareness legislators target estates target estates targets media discredit Hayes while laws

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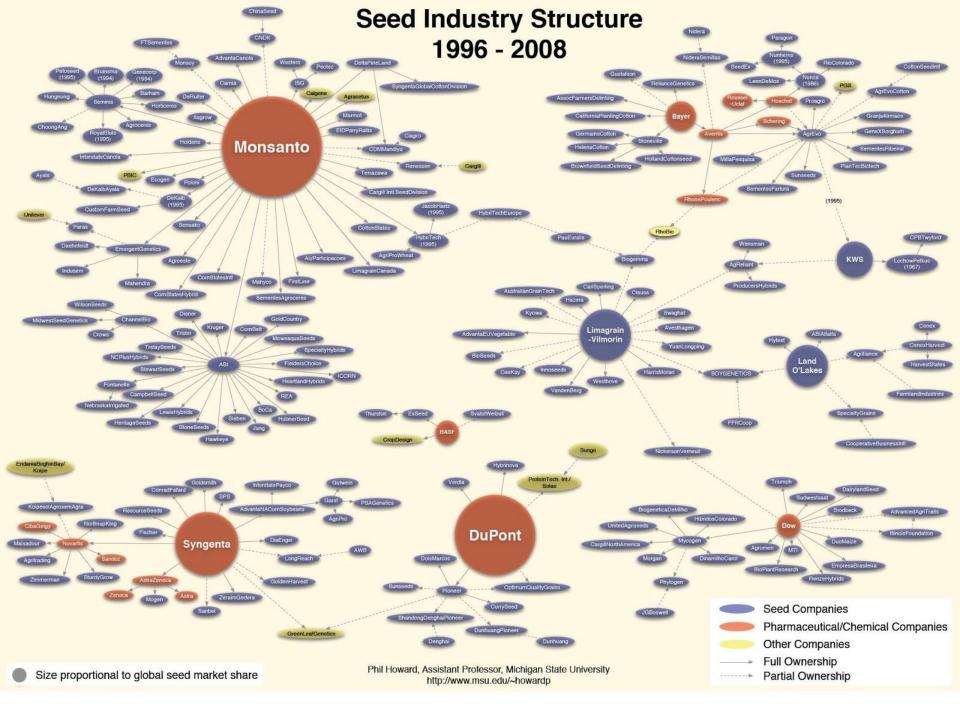
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CONFIDENTIAL/ATTOENER-CLIENT PRIVILEGE

Privileged and Confidential

the may be a bit more potent than atz higher Clower doses canse same effects) North is to LOTELS

Active part of compound is chlorine. Depradation same as atz Increase in manning tummes - 50 vot " " teestide " - + " " @ doses above Max. Tolevated bose (MTD) (>10%) - decreadse in budy vit. gain both





Obama Appoints Monsanto's VP as Senior Advisor to the FDA "The ultimate decision is much bigger than science...

It weighs in public opinion."

Stephen Bradbury US EPA, Dec 3, 2006

Thank you

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