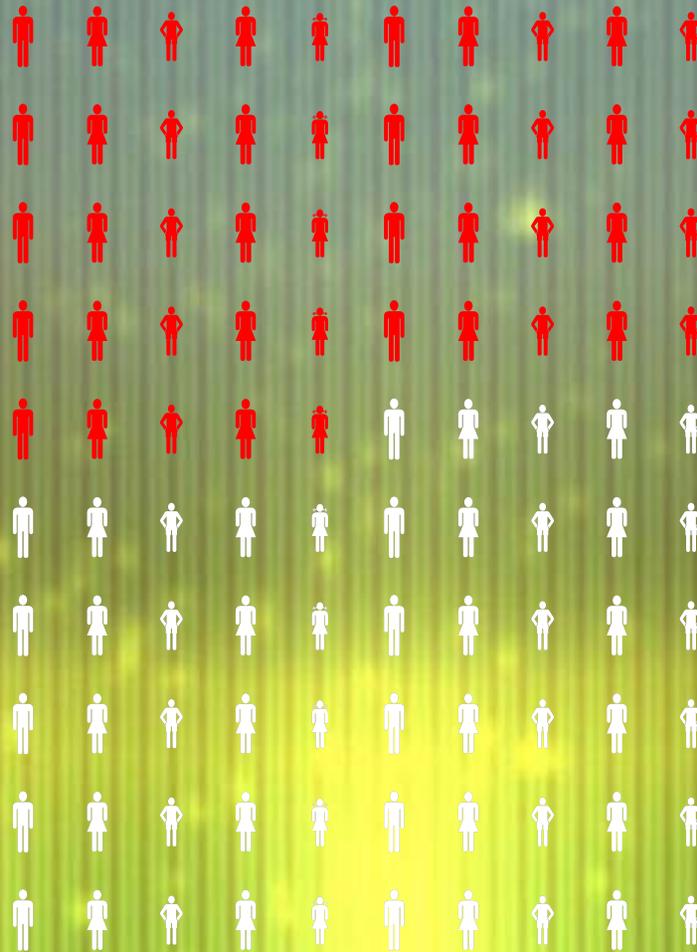
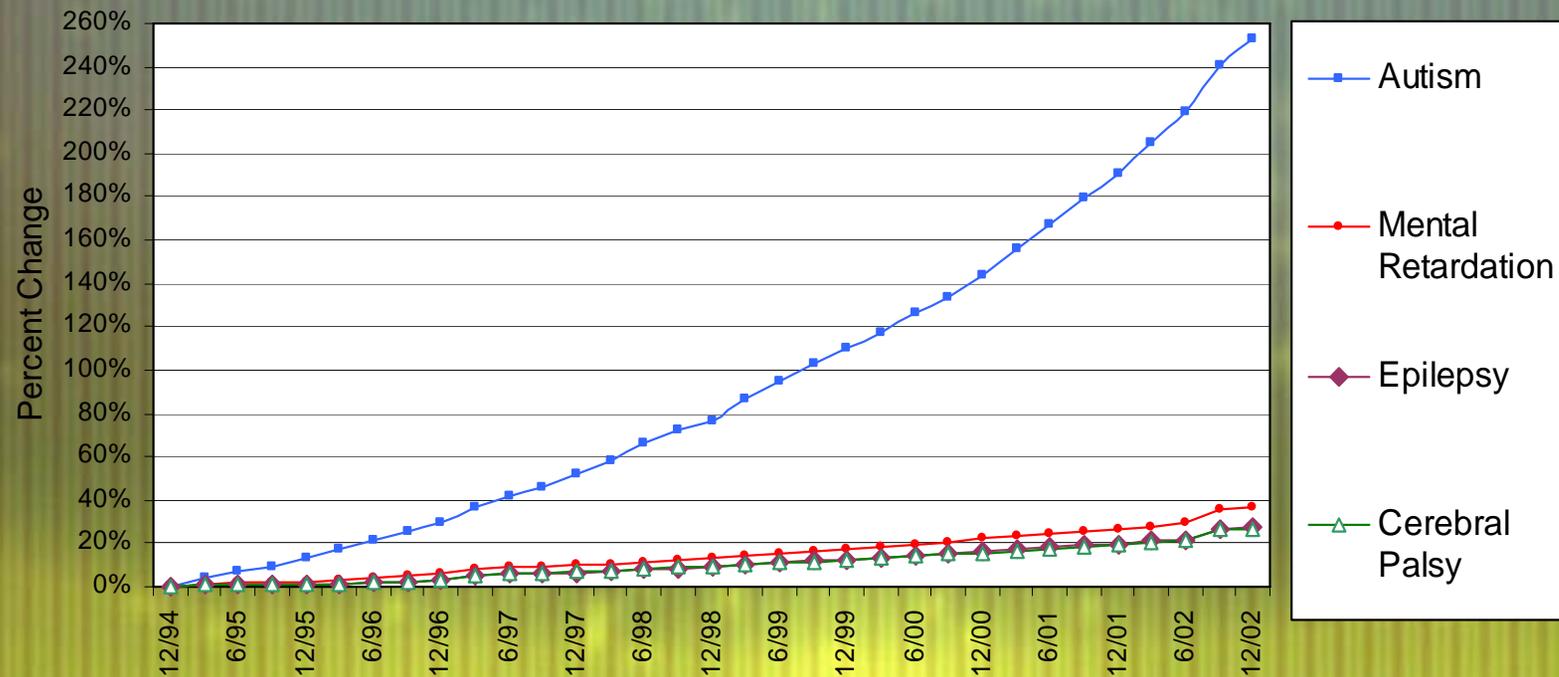


What's Going On?



There is an epidemic of chronic disease



Autism in California 1994-2002

What's Going On?

👉 1 in 6 children now have a learning or developmental disability.

👉 Nationally, autism has increased from less than 3 per 10,000 in the 1970s to more than 30 per 10,000 in the 1990s.

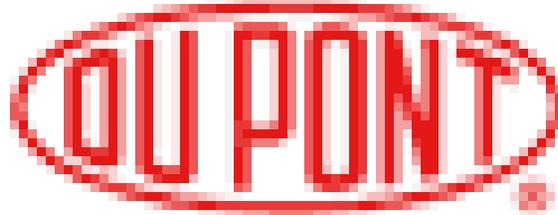
What's Going On? More Cancer

- 👉 In 1964, a women's lifetime risk from breast cancer in the United States was 1 in 20.
- 👉 Today the risk is 1 in 7.
- 👉 Between 1950 and 2001 the incidence of cancer in all sites went up 86%

What's Going On? We Don't Know



Living.
Improved daily.



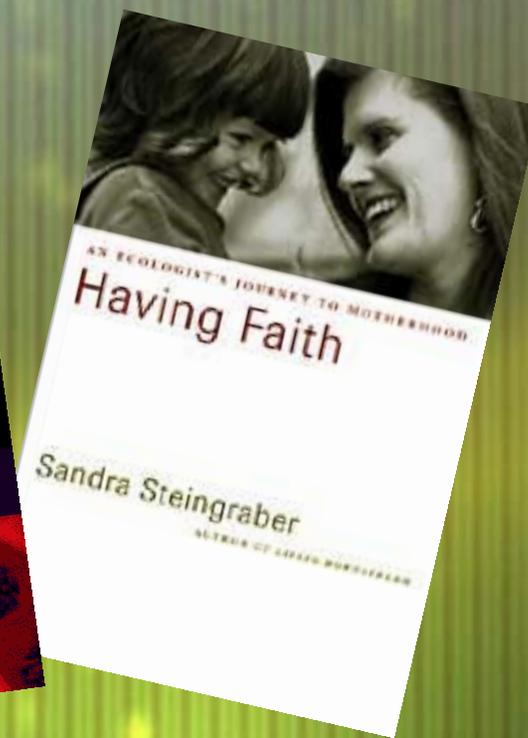
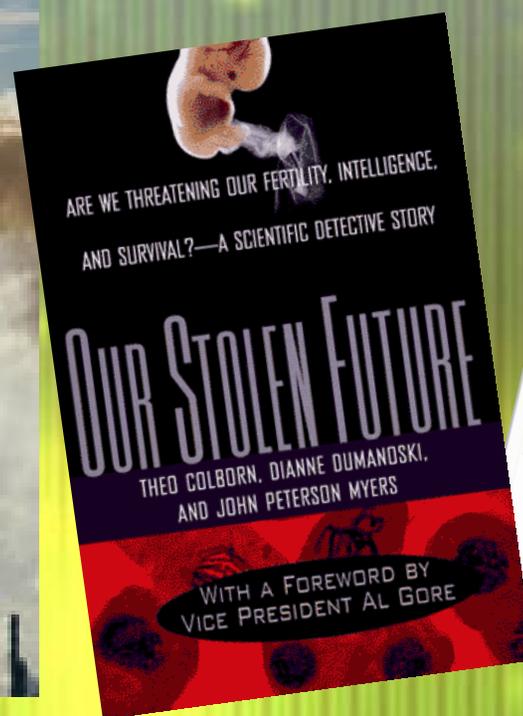
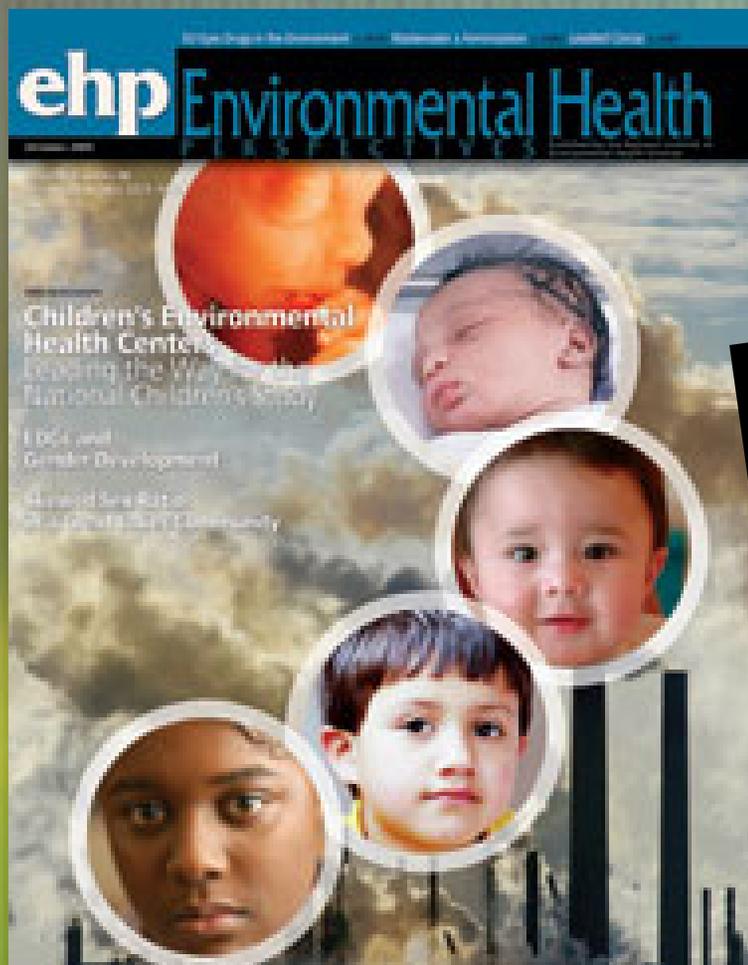
The miracles of science



Welcome to Shell Chemicals

From makers of detergents to packaging, from carpets to computers, many of the world's leading companies depend on us to deliver essential materials to support a modern world

New Information from the Emerging Field of Environmental Health

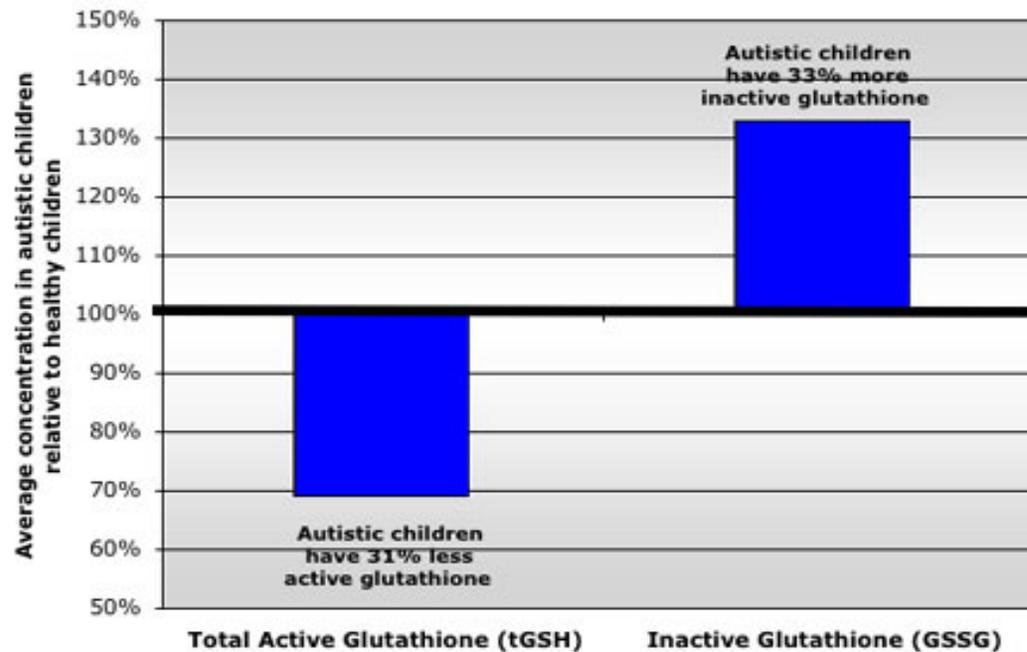


Asthma Links and Triggers

- ➔ PESTICIDES
- ➔ HERBICIDES
- ➔ PHTHALATES
- ➔ OZONE
- ➔ DIESEL
- ➔ SECOND HAND SMOKE

Autism and Glutathione

Glutathione, the body's most important defense against toxic chemicals, is overwhelmed in autistic children

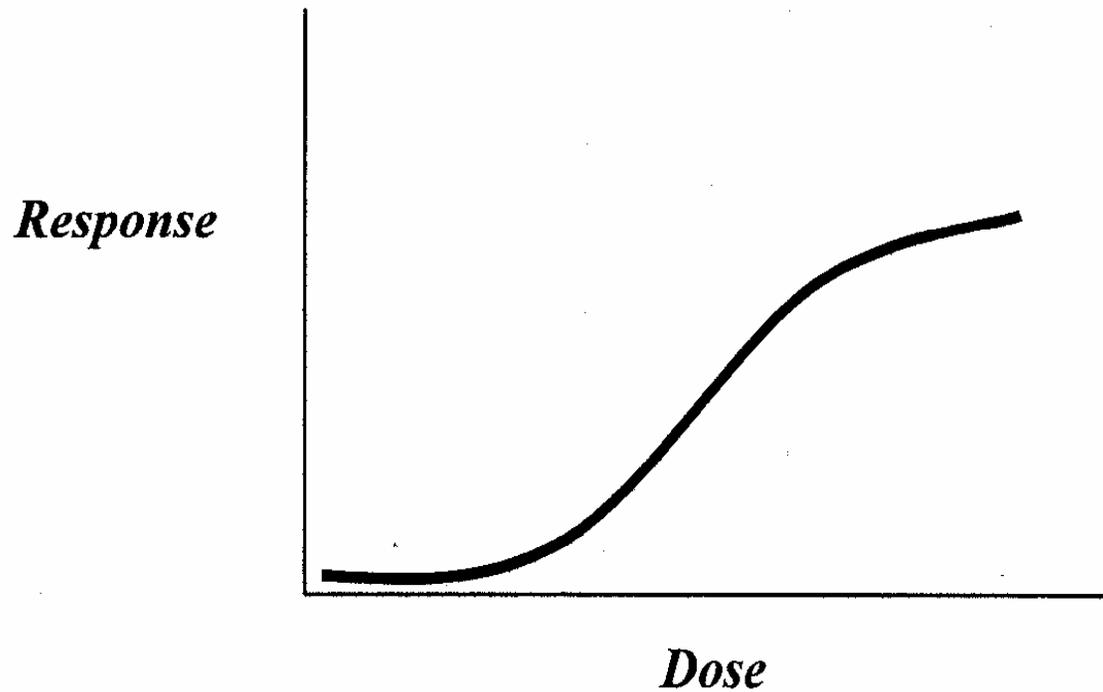


Mercury & Learning Disabilities

👉 CDC
biomonitoring
studies show
that 1 in 10
women have
mercury blood
levels that
pose a threat
of neurological
damage to their
fetus.

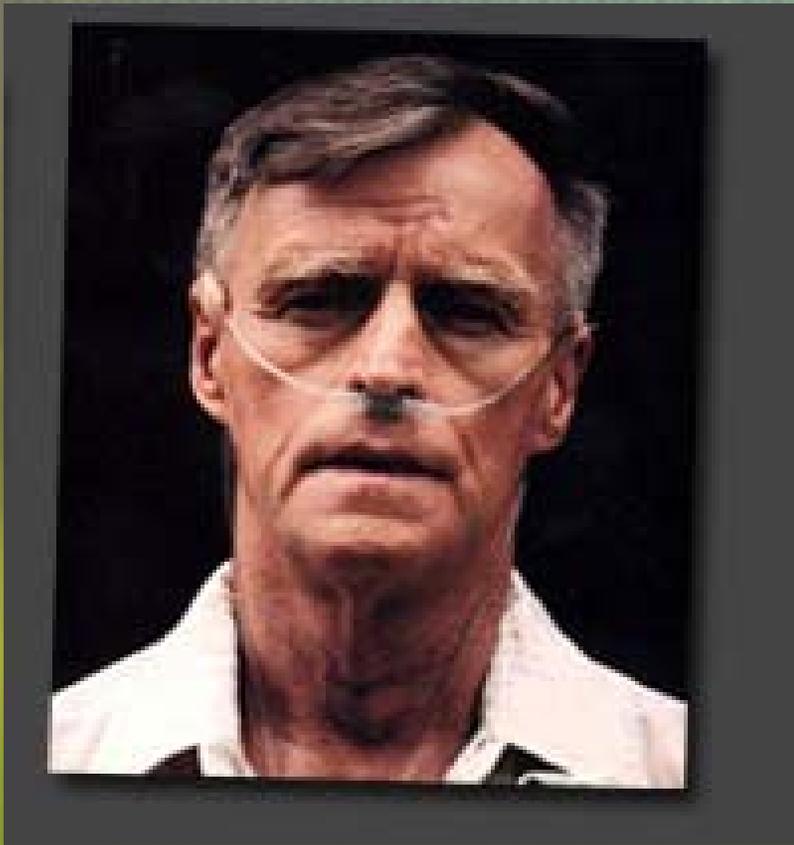


S-Curve



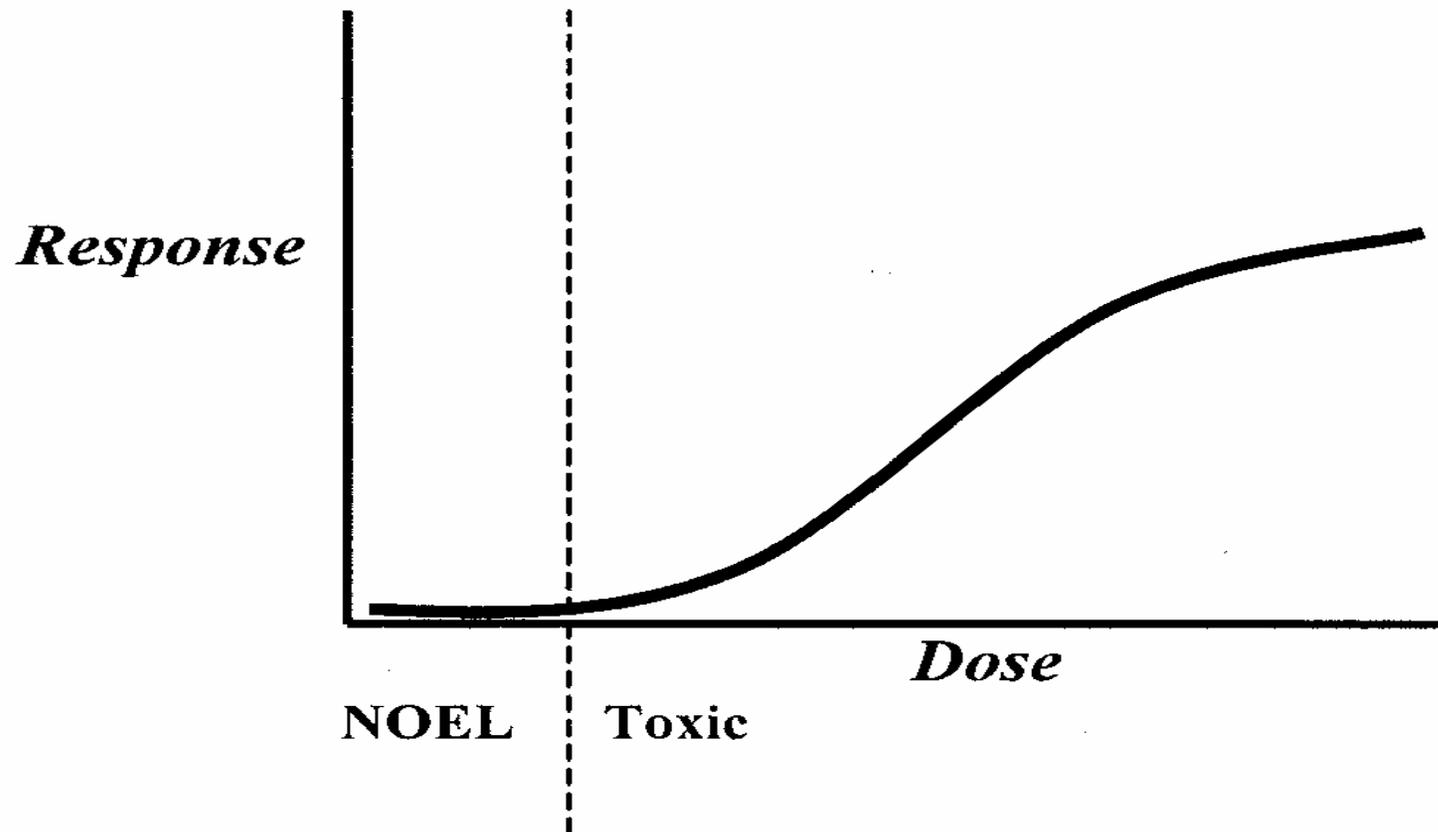
Old Science: The Dose Makes the Poison

Old Science:



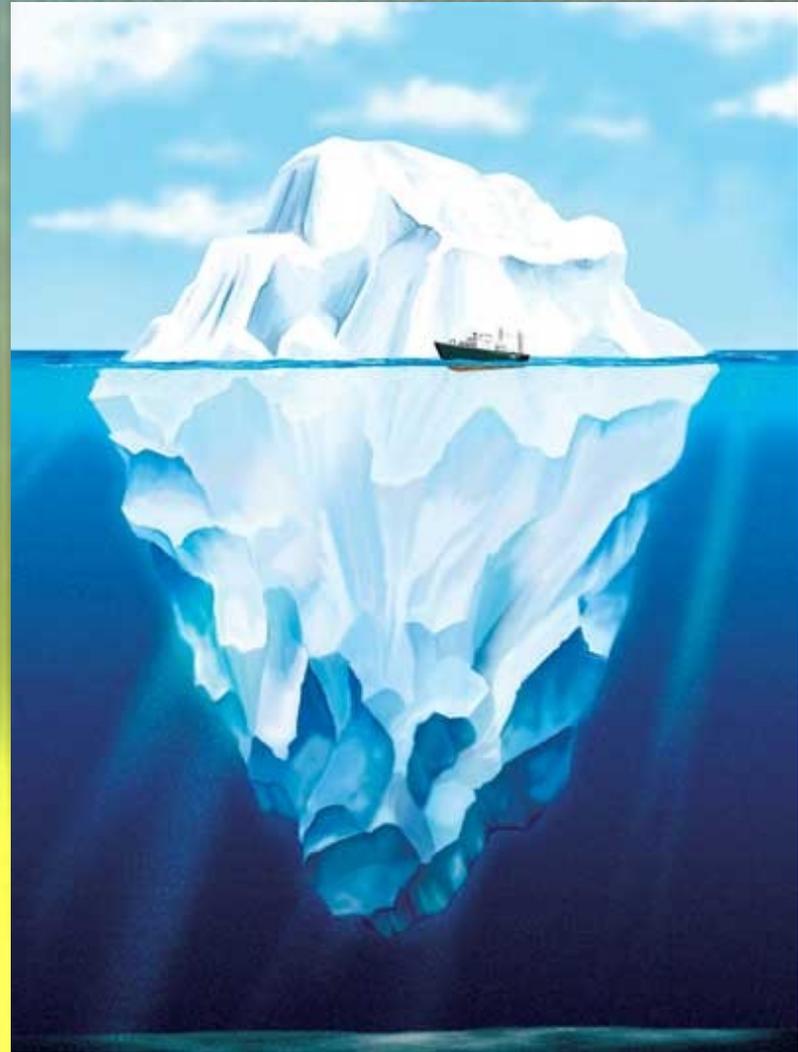
Exposure Levels
that Protect
Workers,
Protect
Everyone

Toxicology

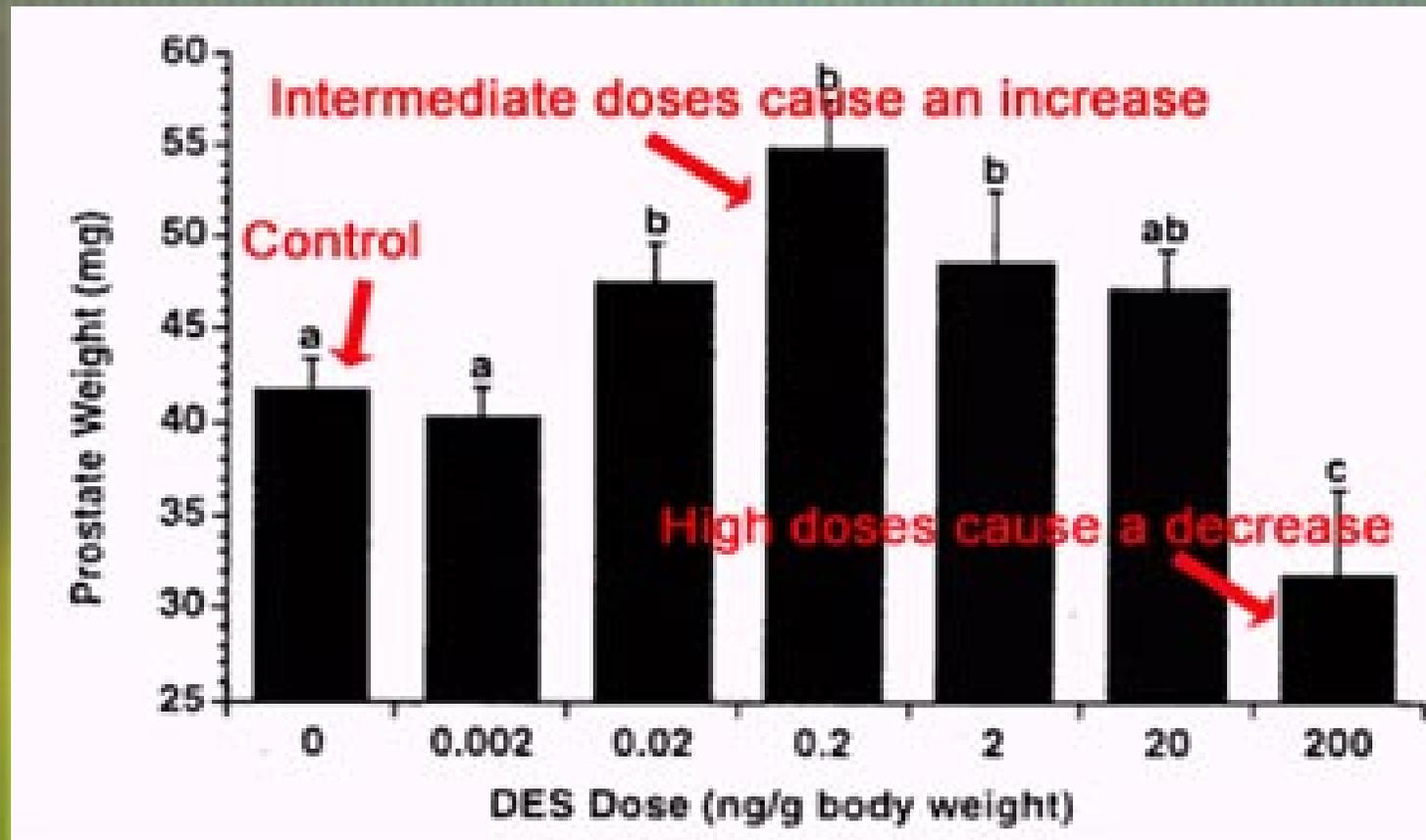


Emerging Science

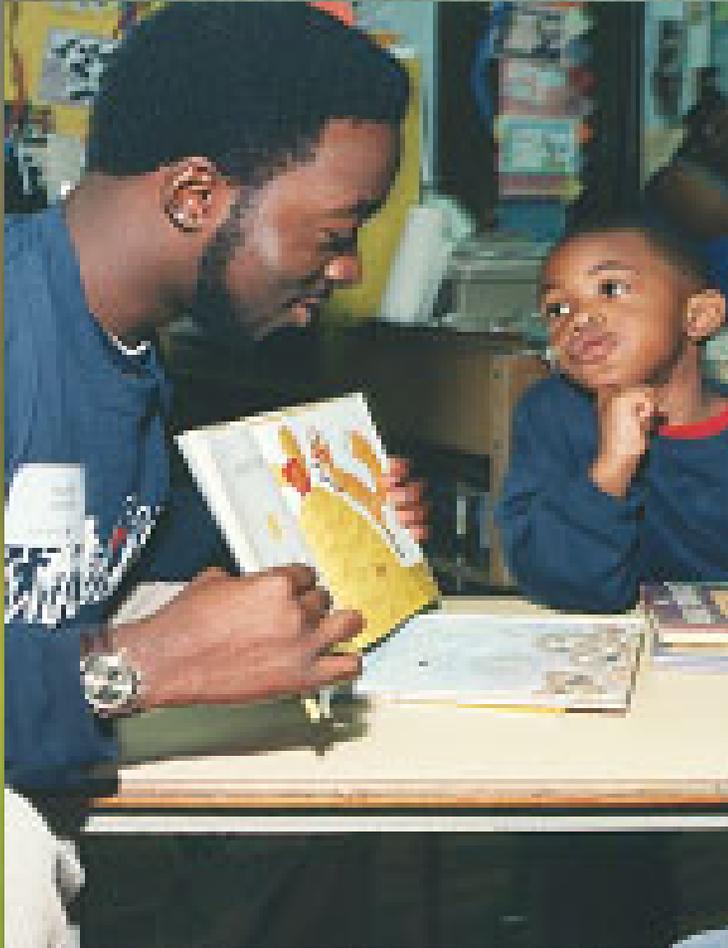
- ☞ It's not just the dose
- ☞ Sometimes less is more
- ☞ Sometimes it's the host
- ☞ And timing
- ☞ And synergies
- ☞ And cumulative effects



Sometimes Less is More

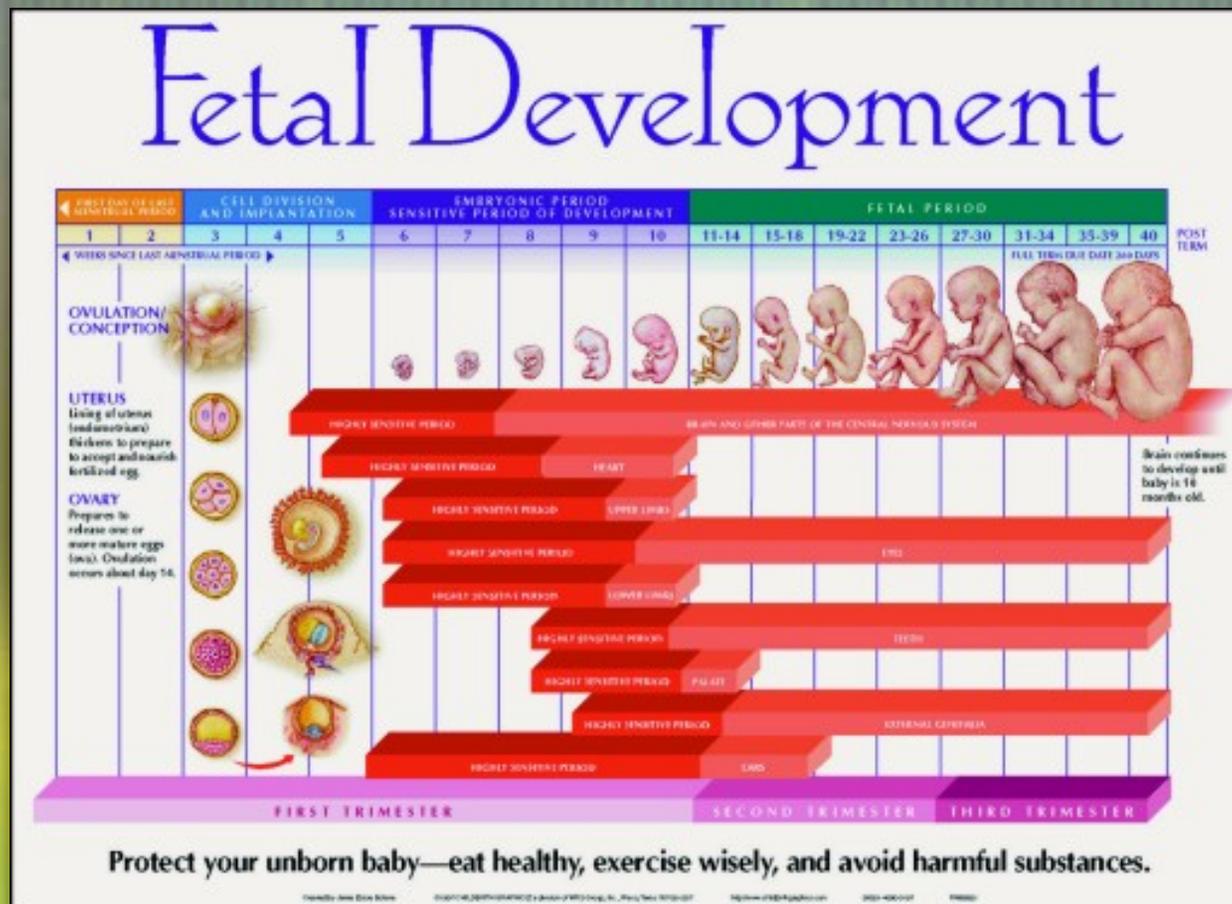


Sometimes It's the Host



- Age
- Genetics
- Weight
- Drugs that a person
may be taking
- Pregnancy status
- Sensitivities

Sometimes It's Timing



Sometimes It's Cumulative Effects and Synergies

>> | TEST RESULTS: **BODY BURDEN PROFILES**

>> | [NEXT PAGE](#)

85 Contaminants Found
CLICK ANY BOX BELOW FOR MORE INFO

Charlotte Brody

Mtl																			Oc
Mtl	Mtl																	OP	Oc
Fur	Mtl																	OP	Oc
Fur	Diox	PCB	Pht	Pht	OP	Oc													
Fur	Diox	PCB	Pht	OP	Oc														
Fur	Diox	PCB	Pht	OP	Oc														
Fur	Diox	S/Voc	PCB	Pht	OP	Oc													
Fur	Diox	S/Voc	PCB	Pht	OP	Oc													
Fur	Diox	S/Voc	PCB	PCB	PCB	Oc													
Fur	Diox	S/Voc	PCB	PCB	Oc														

BodyBurden

The Pollution in Newborns

A benchmark investigation of industrial chemicals, pollutants, and pesticides in human umbilical cord blood

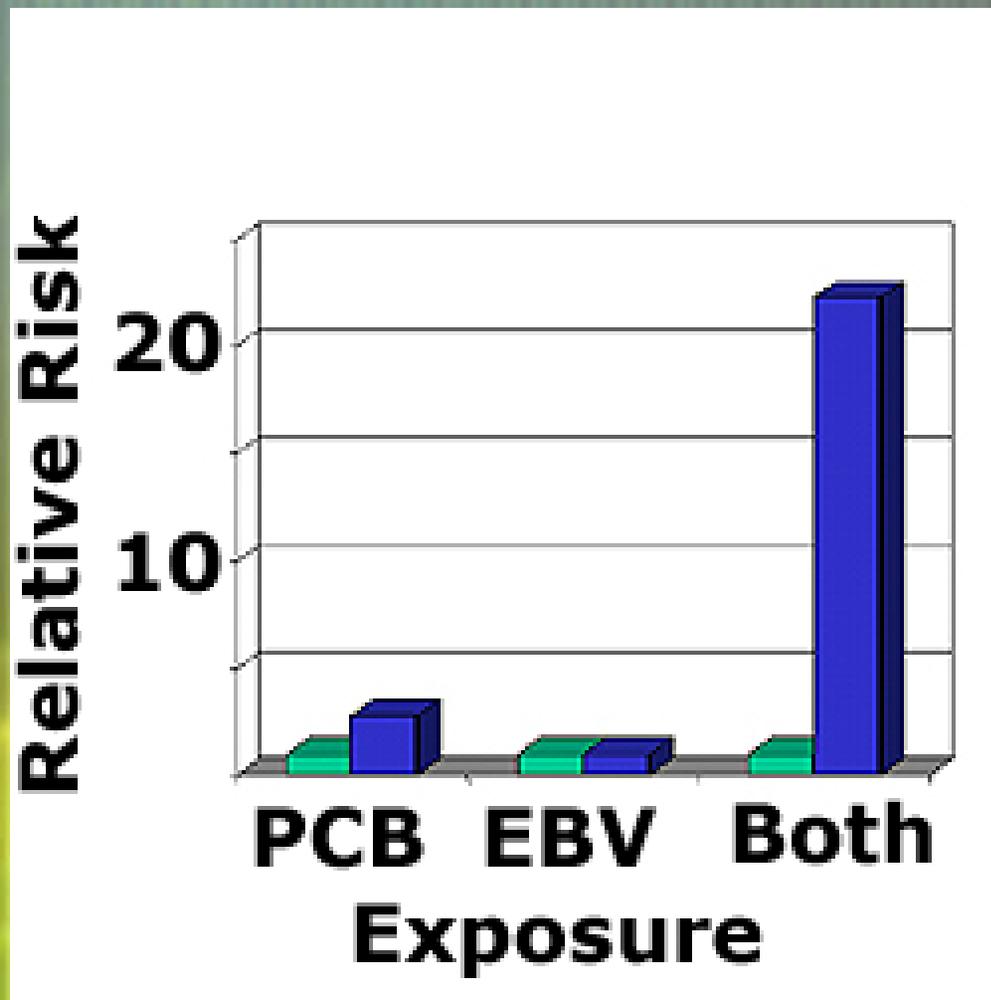
Cord blood of 10 babies born in August and September, 2004

Tested for 413 chemicals in 9 classes

Found 287 in all 9 classes, including

- Mercury
- Dioxins
- Polybrominated diphenyl ethers (PBDEs)

Synergies between a Chemical and a Virus



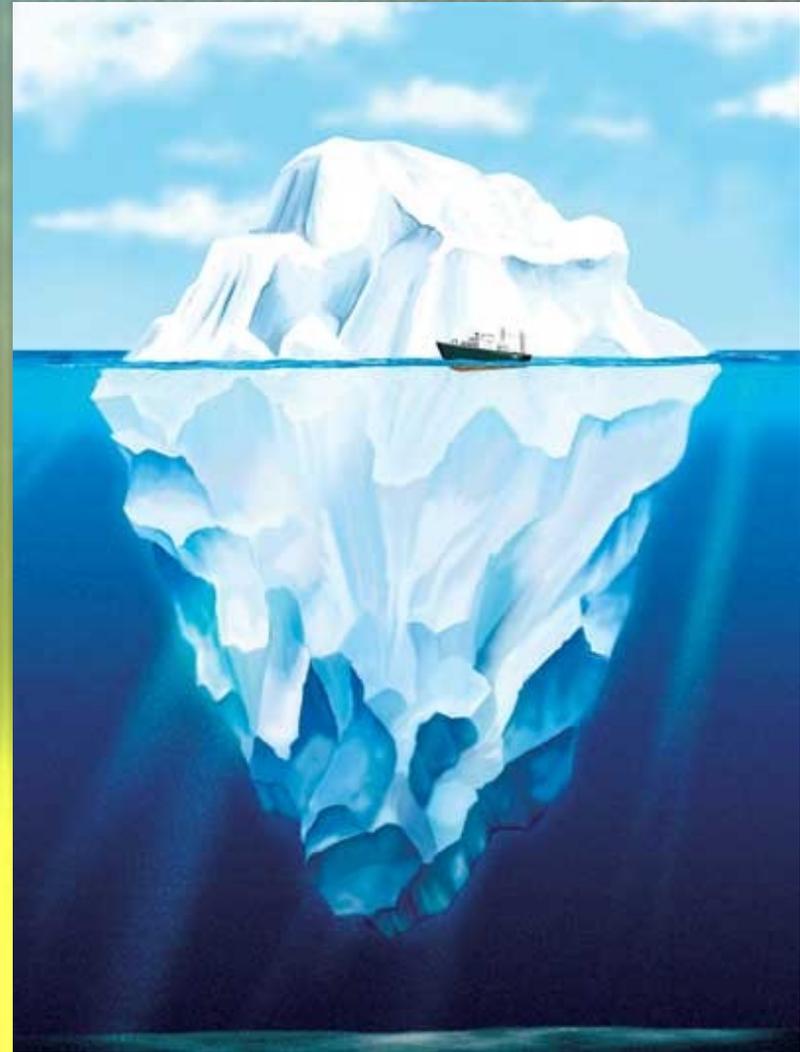
WHAT ARE WE LEARNING FROM THE EMERGING SCIENCE?



- How much we don't know
- How dull and inappropriate our tools are
- How much chemicals work like pharmaceuticals

Drugs and chemicals

- ☞ It's not just the dose
- ☞ Sometimes less is more
- ☞ Sometimes it's the host
- ☞ And timing
- ☞ And synergies
- ☞ And cumulative effects



Regulatory Processes: Pre-market testing

☞ The regulatory process by which a **drug** comes to the market includes several stages of testing, including both animal and human testing.

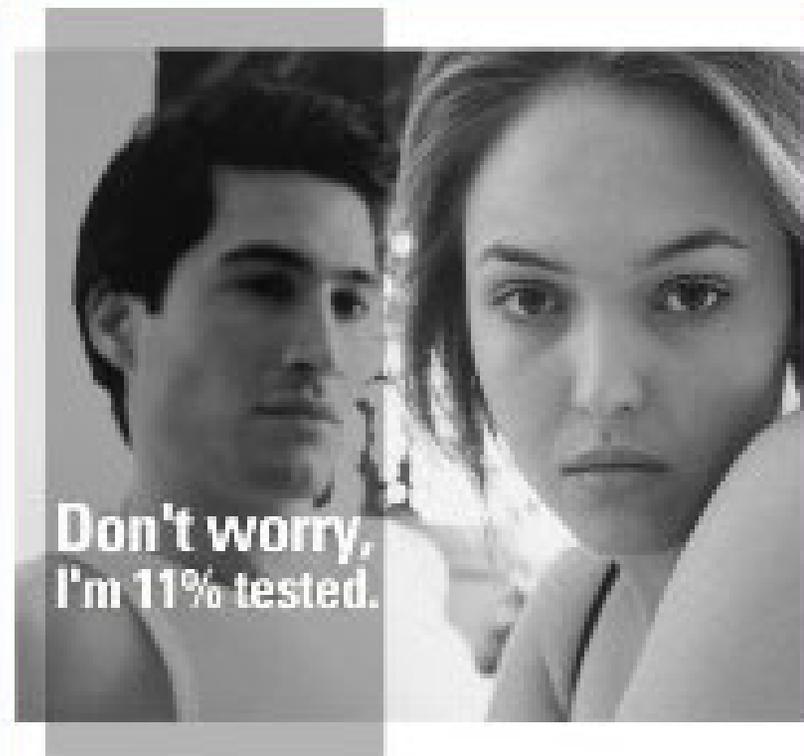
☞ There is no requirement for pre-market testing of **chemical products** that are not foods, cosmetics, or pesticides. No original testing is



👉 If chemicals act like drugs, including causing physiologic changes at very low levels, shouldn't they be regulated like drugs?

Who's Protecting Us From Chemicals

- 👉 Air, water, toxic chemicals (pesticides) - EPA
- 👉 Food - FDA and Dept of Agriculture
- 👉 Transportation of hazardous materials - DOT
- 👉 Lead-based paint, radon, carbon monoxide in homes - federal, state, and local policies
- 👉 Workplace exposures - OSHA
- 👉 Personal care



Don't worry,
I'm 11% tested.

Don't trust these odds?

Then you should know: only 11% of the 10,500 chemicals in your cosmetics have been screened for safety.

Federal Protections on Drugs and Chemicals

- ➡ TSCA
- ➡ 60,000 chemicals listed in 1976
- ➡ EPA must prove regulation will reduce risk to acceptable level least burdensome to industry
- ➡ 5 have been banned (.008%)
- ➡ Food and Drug Act
- ➡ FDA reviews data to determine safety and effectiveness
- ➡ 1 in 5 drugs that enter clinical testing are

☞ If the emerging science is teaching us that chemicals aren't 10,000 times safer than drugs, don't we need to manage chemicals more like



How Do We Protect Ourselves, Our Community, Our Country?

U.S./CANADA



**Going
Green**

A Resource Kit for
Pollution Prevention
in Health Care



CleanMed



Silicon Valley Toxics Coalition

The most comprehensive site on high-tech impacts
on community, worker, and environmental health.

Voluntary Actions

How Do We Protect Ourselves, Our Community, Our Country?



free gift with your purchase

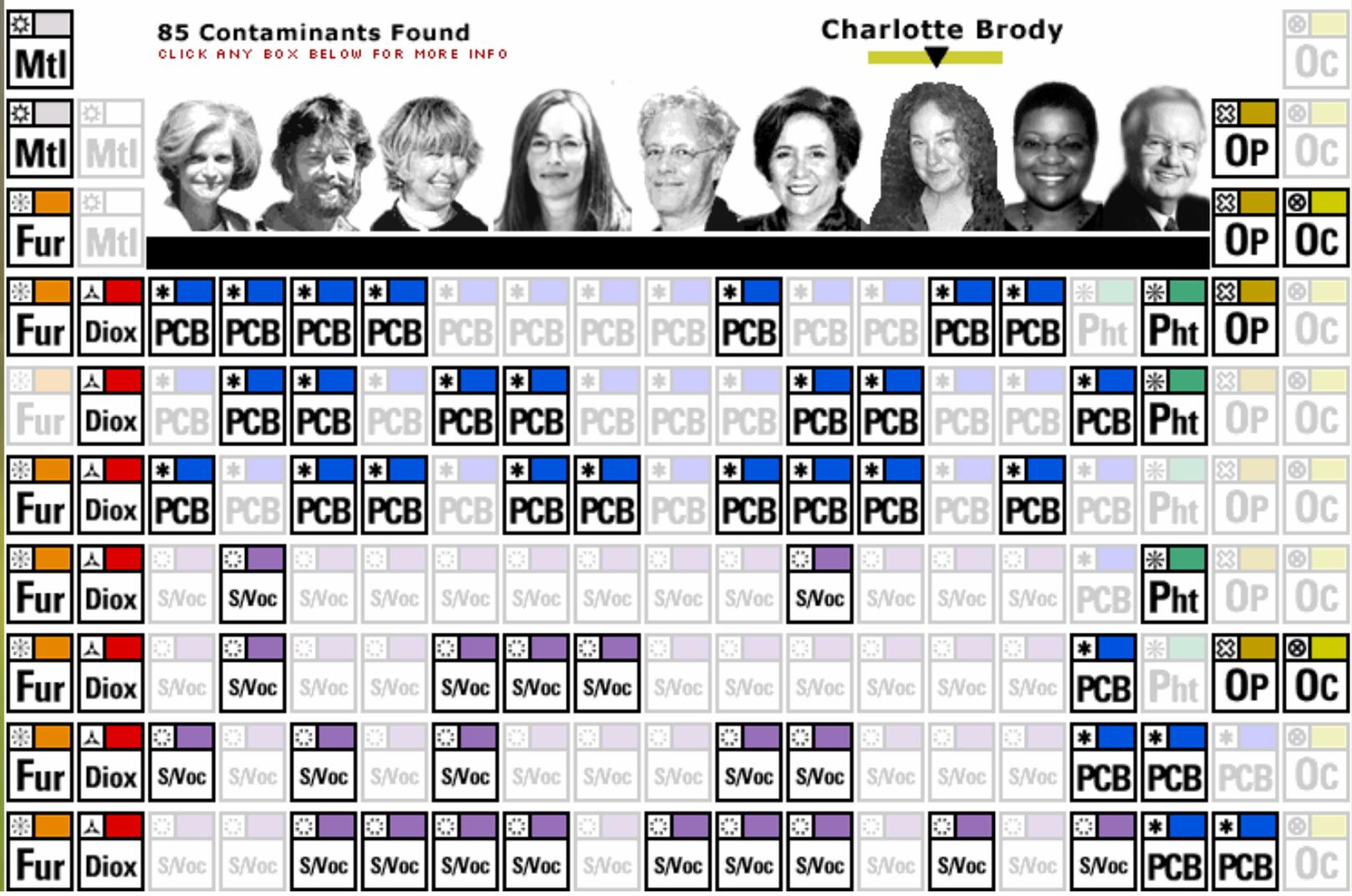
[a complimentary dose of toxic chemicals]

Government Regulation

Sometimes It's Cumulative Effects and Synergies

>> | TEST RESULTS: **BODY BURDEN PROFILES**

>> | [NEXT PAGE](#)



☞ The right to bear children who are born free of toxic chemicals



RESOURCES

👉 www.commonweal.org

👉 www.noharm.org

👉 www.healthandenvironment.org

👉 www.ourstolenfuture.org

👉 www.ewg.org

👉 www.h2e-online.org

👉 www.safecosmetics.org

👉 www.gghc.org