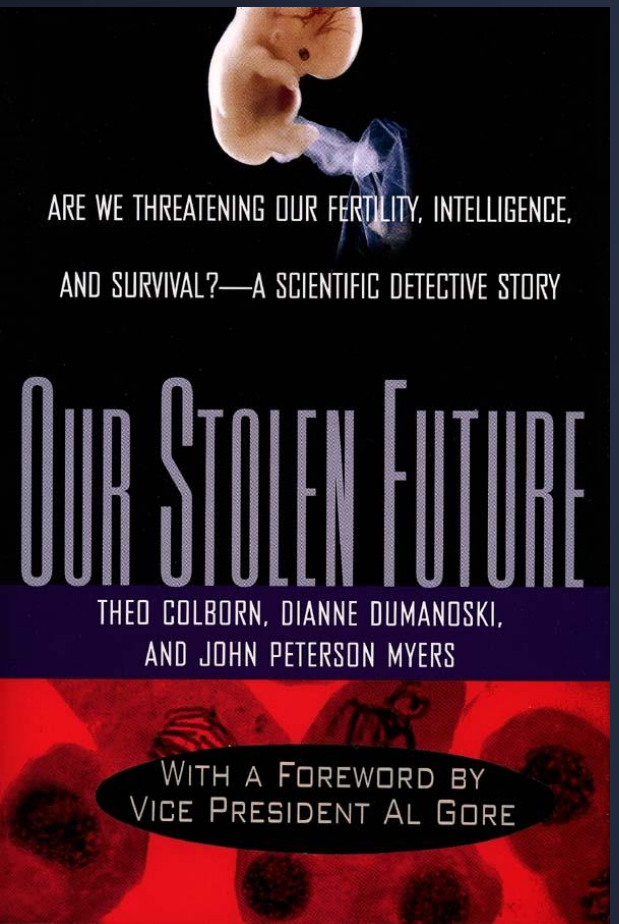
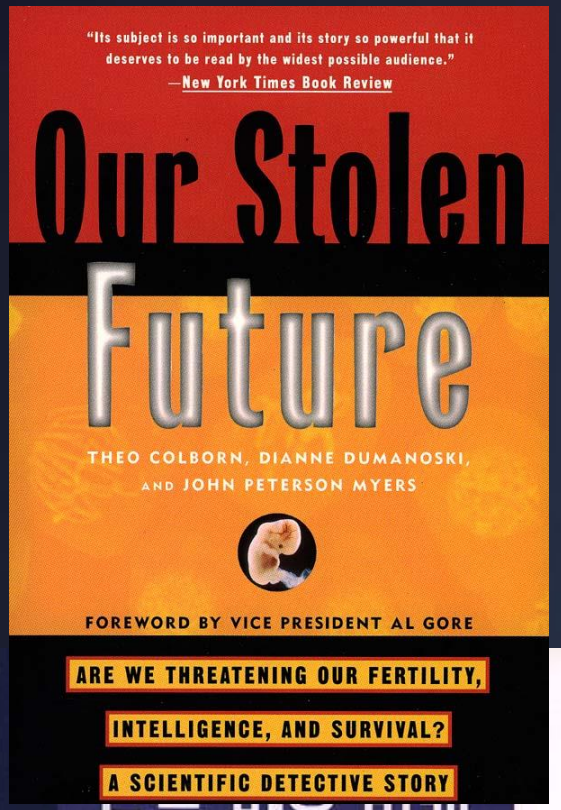
Our Stolen Future

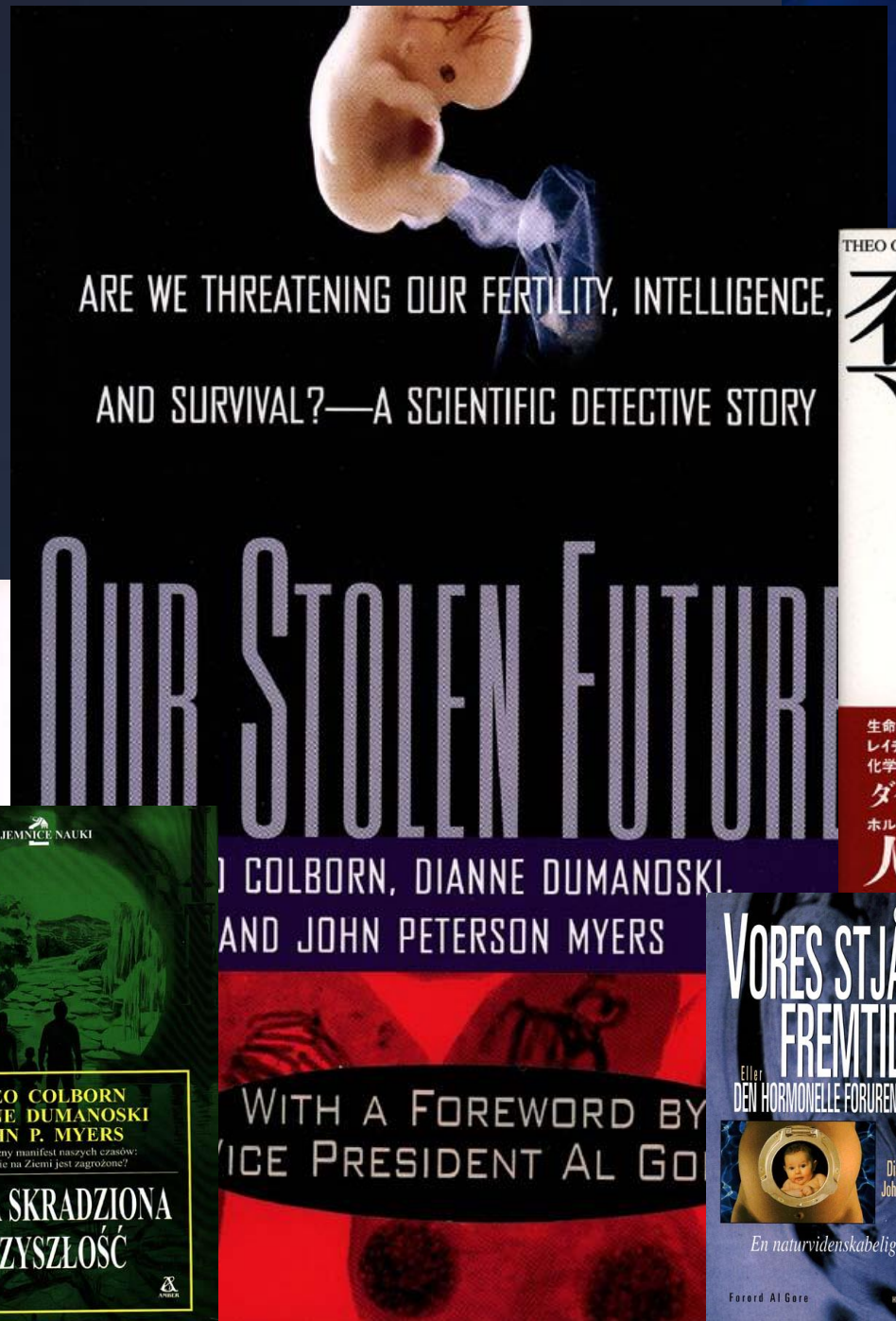
by Theo Colborn, Dianne Dumanoski and John Peterson Myers



Pete Myers, Ph.D.

Environmental Health Sciences and
Carnegie Mellon University


"Its subject is so important and its story so powerful that it deserves to be read by the widest possible audience."
—New York Times Book Review
Our Stolen Future
THEO COLBORN, DIANNE DUMANOSKI, AND JOHN PETERSON MYERS
FOREWORD BY VICE PRESIDENT AL GORE
ARE WE THREATENING OUR FERTILITY, INTELLIGENCE, AND SURVIVAL? A SCIENTIFIC DETECTIVE STORY

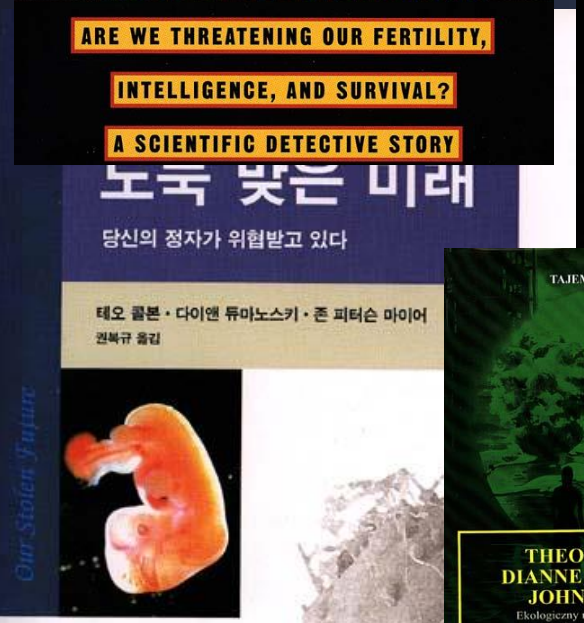

ARE WE THREATENING OUR FERTILITY, INTELLIGENCE, AND SURVIVAL?—A SCIENTIFIC DETECTIVE STORY
OUR STOLEN FUTURE
COLBORN, DIANNE DUMANOSKI,
AND JOHN PETERSON MYERS
WITH A FOREWORD BY
VICE PRESIDENT AL GO


Theo Colborn Dianne Duma
John Peterson M
L'HOMM

THEO COLBORN DIANNE DUMANOSKI JOHN PETERSON MYERS
奪われし未来
OUR STOLEN FUTU
長尾 力 訳
シーア・コルボーン
ダイアン・ダマノスキ
ジョン・ピーターソン・マイヤーズ
生命の存続を支えてきた生殖というシステムが壊れようとしている。
レイチェル・カーソンの「沈黙の春」から30年
化学物質の危険性はがんだけではなかった!
ダイオキシンやPCB、DDTが体内に入ると
ホルモンのはたらきを攪乱してしまう。その結果
人類はもう
を残せない!?


NUESTRO FUTURO ROBADO
¿AMENAZAN las sustancias químicas sintéticas nuestra fertilidad, inteligencia y supervivencia?


生命的隱形浩劫
失竊的未來
Our Stolen Future
THEO COLBORN & DIANNE DUMANOSKI & JOHN PETERSON MYERS 著
ISBN 957-607-344-8 [416]
00280


당신의 정자가 위협받고 있다
테오 콜본 • 다이앤 듀마노스키 • 존 피터슨 마이어
권복규 옮김
Our Stolen Future

TAJEMNICE NAUKI
THEO COLBORN
DIANNE DUMANOSKI
JOHN P. MYERS
Ekologiczny manifest naszych czasów: czy życie na Ziemi jest zagrożone?
NASZA SKRADZIONA PRZYSZŁOŚĆ

VORES STJÅLNE FREMTID
Eller
DEN HORMONELLE FORURENINGSFARE
Theo Colborn
Dianne Dumanoski
John Peterson Myers
En naturvidenskabelig krimi
Forord Al Gore


Zuku
Fruchtbarkeit und Überlebensfähigkeit?
Mit einem Vorwort
von Al Gore
Droemer Knaur

Er vår fruktbarhet og intelligens truet av «hormonsvindlere»?
WWF Verdens Naturfond Norge
Årets Pandabok 1997
GRØNDAHL DREYER


"Its subject is so important and its story so powerful that it deserves to be read by the widest possible audience."
—New York Times Book Review
Our Stolen
Theo Colborn Dianne Duma
John Peterson M
L'HOMM
THEO COLBORN DIANNE DUMANOSKI JOHN PETERSON MYERS
NUESTRO FUTURO ROBADO
¡AMENAZAN las sustancias químicas
sintéticas nuestra fertilidad
Are we threatening our fertility, intelligence and survival?
INTELLIGENCE, AND SURVIVAL?
A SCIENTIFIC DETECTIVE STORY
도둑 맞은 미래
당신의 정자가 위협받고 있다
테오 콜본 · 다이앤 듀마노스키 · 존 피터슨 마이어
권복규 옮김
OUR STOLEN FUTURE
COLBORN, DIANNE DUMANOSKI,
AND JOHN PETERSON MYERS
WITH A FOREWORD BY
VICE PRESIDENT AL GO
生命の存続を支えてきた生殖というシステムが壊れようとしている。
レイチェル・カーソンの「沈黙の春」から30年
化学物質の危険性はがんだけではなかった!
ダイオキシンやPCB、DDTが体内に入ると
ホルモンのはたらきを攪乱してしまう。その結果
人類はもう
を残せない!?
TAJEMNICE NAUKI
THEO COLBORN
DIANNE DUMANOSKI
JOHN P. MYERS
Ekologiczny manifest naszych czasów:
czy życie na Ziemi jest zagrożone?
NASZA SKRADZIONA PRZYSZŁOŚĆ
VORES STJÅLNE FREMTID
Eller
DEN HORMONELLE FORURENINGSFARE
Theo Colborn
Dianne Dumanoski
John Peterson Myers
En naturvidenskabelig krimi
Forord Al Gore
Zuku
Fruchtbarkeit und Überlebensfähigkeit?
Mit einem Vorwort
von Al Gore
Droemer Knaur
Er vår fruktbarhet og intelligens truet av «hormonsvindlere»?
WWF Verdens Naturfond Norge
Årets Pandabok 1997
GRØNDAHL DREYER

тиймээ

Oui oui

Ano

YES!

نعم

是的

ᦅᦱᧉ

Sí

ilaali

Ja

Áang

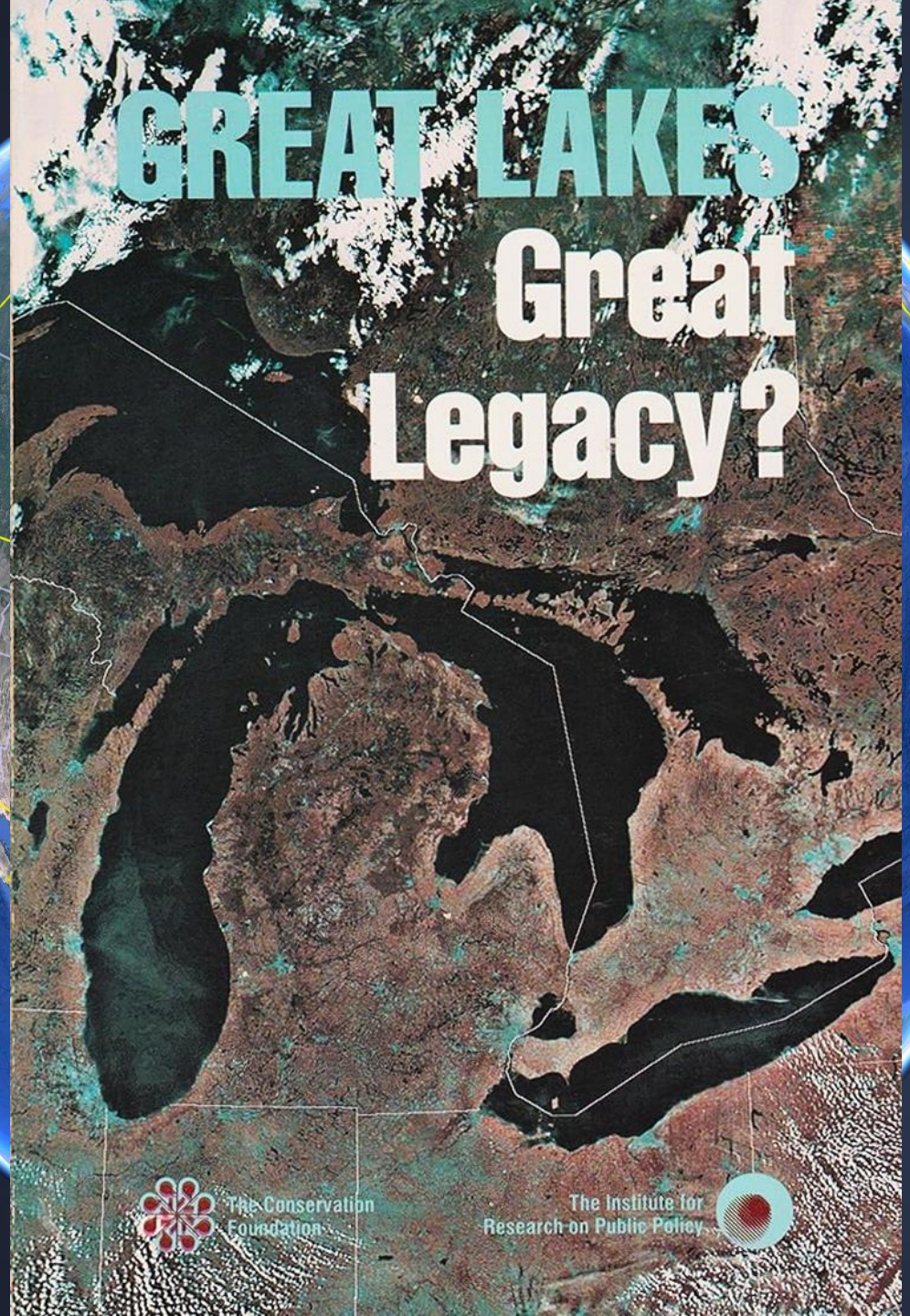
हाँ

ᨕᨑ


3
2
1
PHARMACY

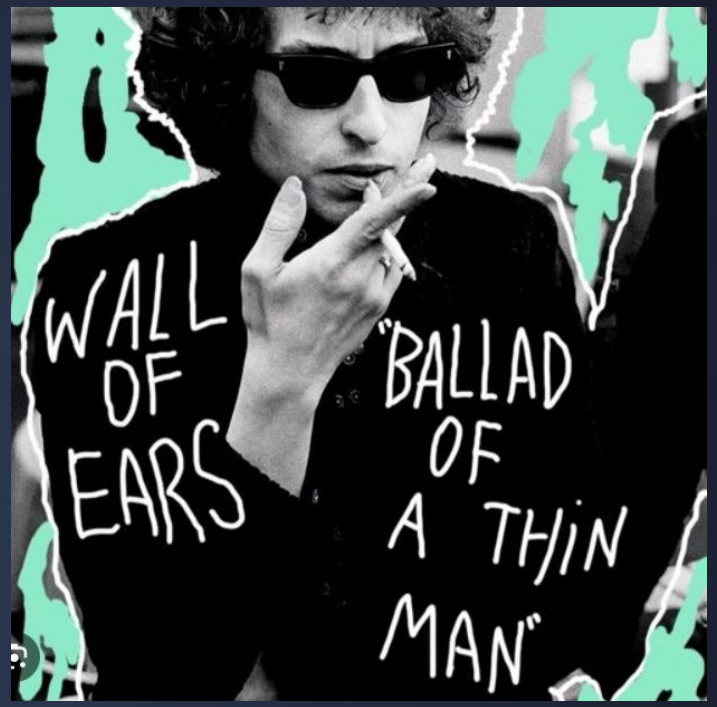

CHASM VIEW
NATURE TRAIL
NO ROCK THROWING
HIKER'S BELOW


Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus
Image IBCAO


GREAT LAKES
Great
Legacy?
The Conservation Foundation
The Institute for Research on Public Policy

Something is happening and you don’t know what it is, do you, Dr. Colborn?

Bob Dylan. *Ballad of a Thin Man*

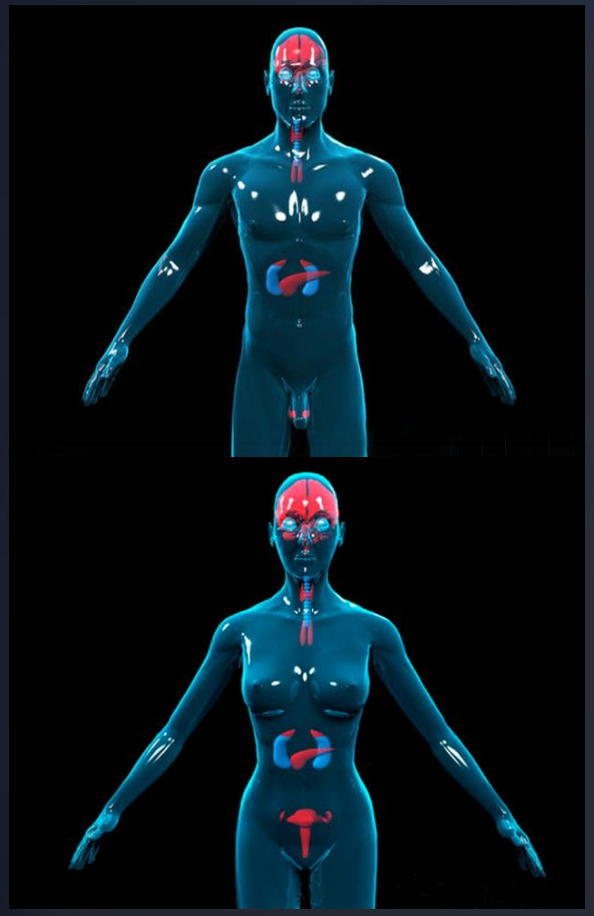


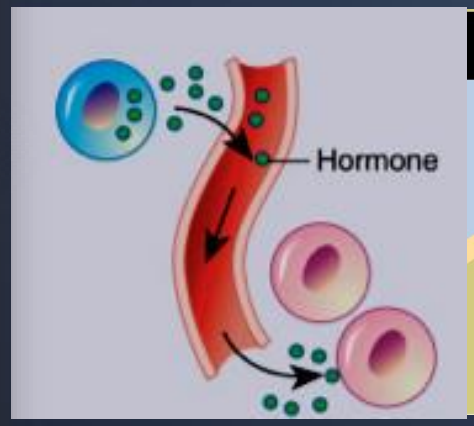
Something wrong with hormones

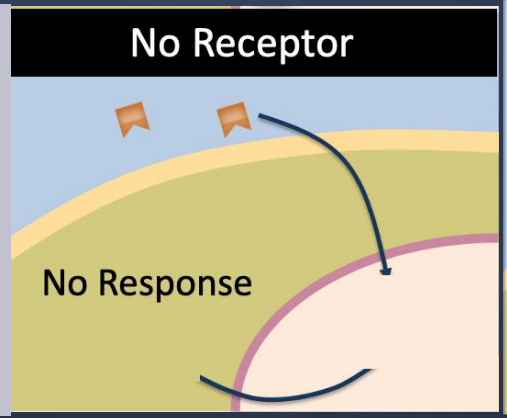
Hormones… not just about puberty!

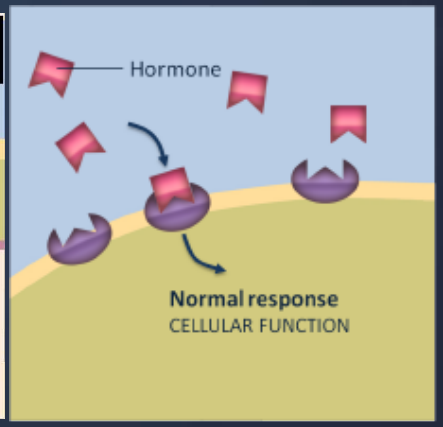
Chemical signals in the symphony of life!

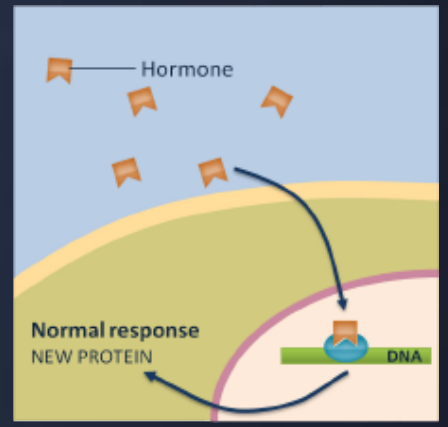
Something wrong with hormones

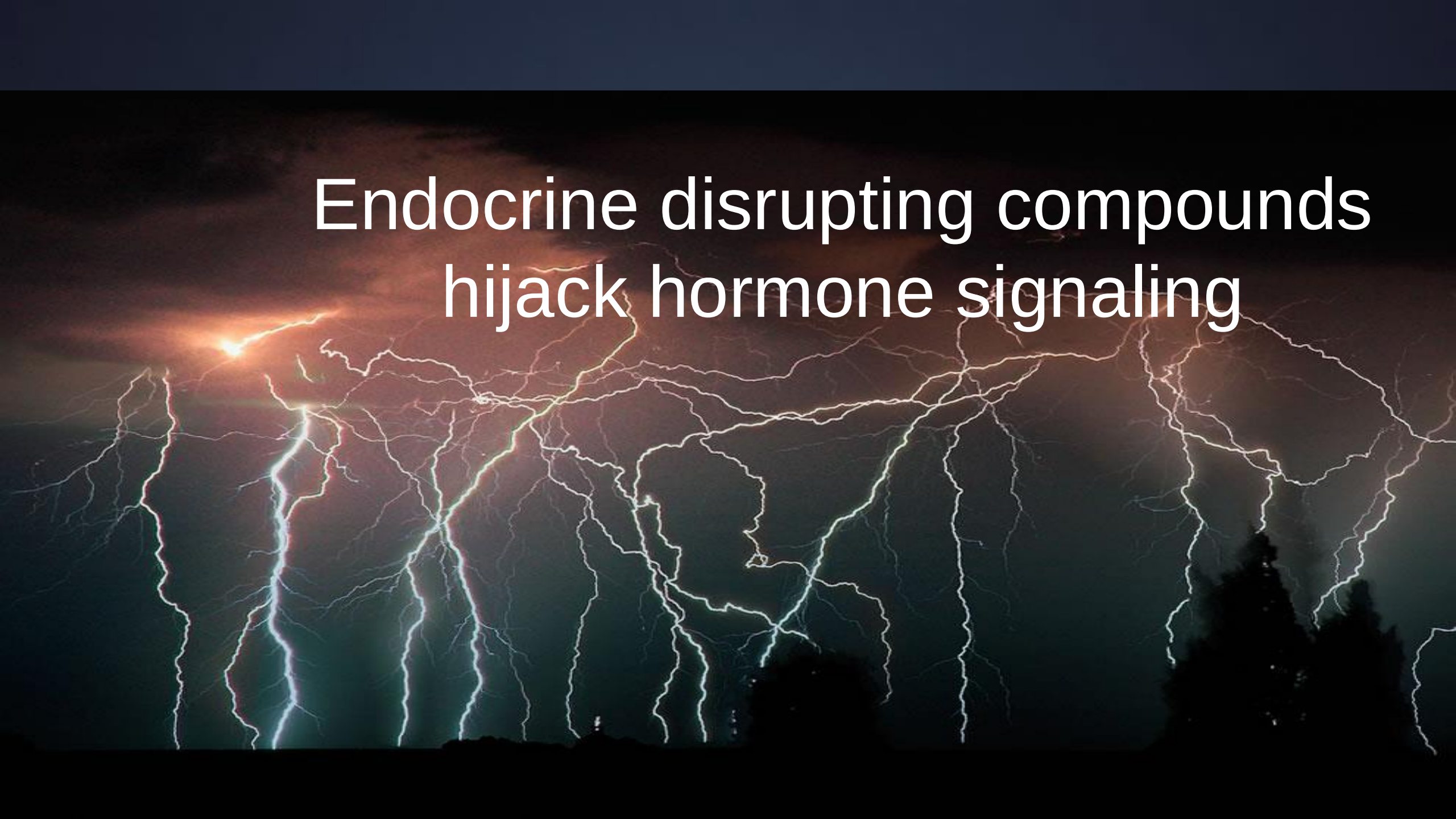








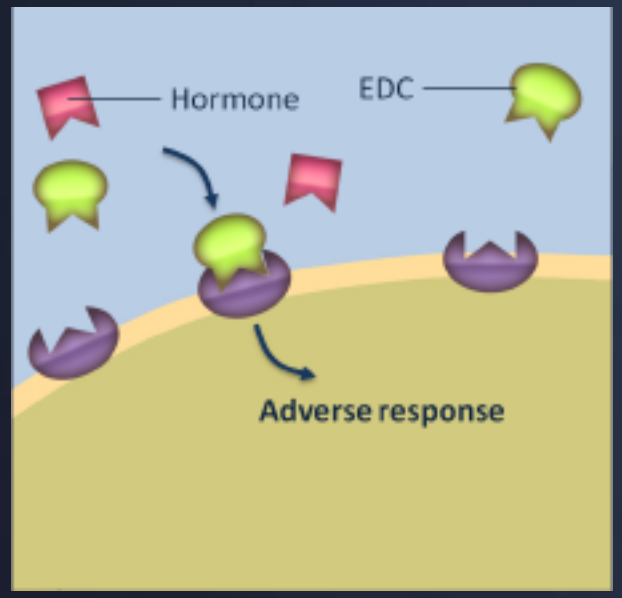




Endocrine disrupting compounds hijack hormone signaling

Hijacking the symphony of life

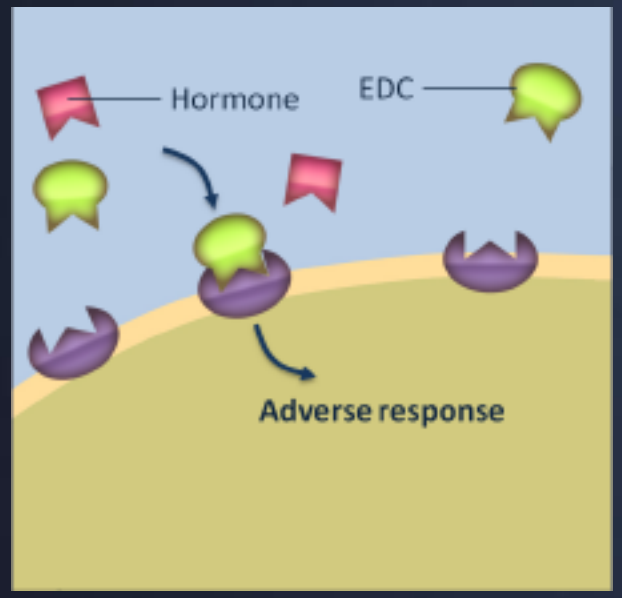
Multiple ways, among them:



They send a signal at the wrong time

Hijacking the symphony of life

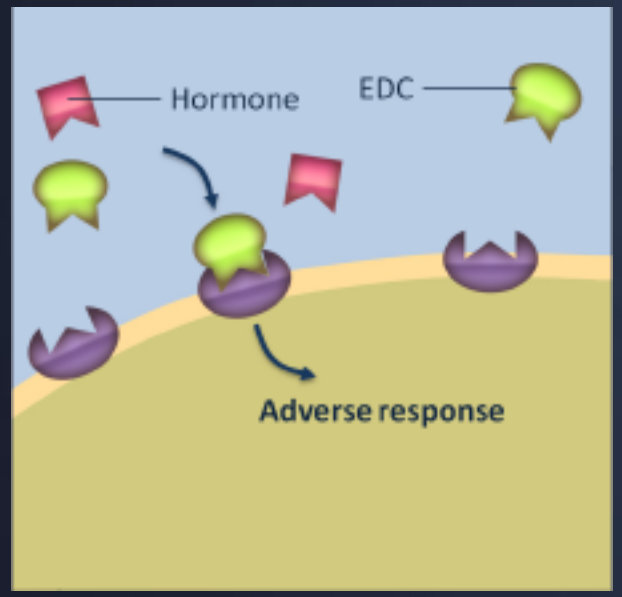
Multiple ways, among them:



They send signals that block the right signal

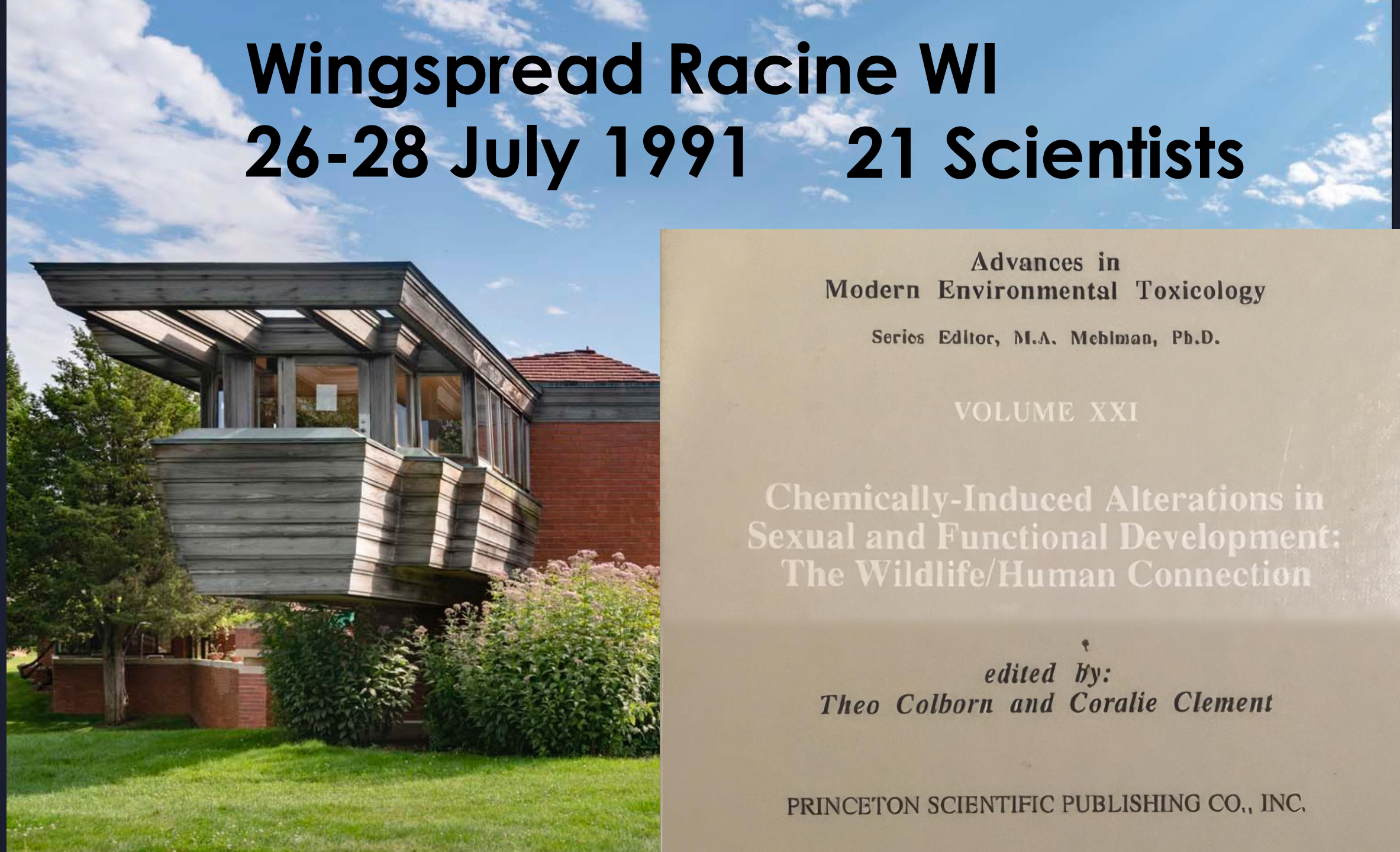
Hijacking the symphony of life

Multiple ways, among them:



They send the wrong signal at any time

Wingspread Racine WI
26-28 July 1991 21 Scientists



Advances in
Modern Environmental Toxicology

Series Editor, M.A. Mehlman, Ph.D.

VOLUME XXI

Chemically-Induced Alterations in Sexual and Functional Development: The Wildlife/Human Connection

edited by:
Theo Colborn and Coralie Clement

PRINCETON SCIENTIFIC PUBLISHING CO., INC.

Intergovernmental Panel on Climate Change Executive Summary 1990

EXECUTIVE SUMMARY

We are certain of the following:

- there is a natural greenhouse effect which already keeps the Earth warmer than it would otherwise be
- emissions resulting from human activities are substantially increasing the atmospheric concentrations of the greenhouse gases carbon dioxide, methane, chlorofluorocarbons (CFCs) and nitrous oxide These increases will enhance the greenhouse effect, resulting on average in an additional warming of the Earth's surface The main greenhouse gas, water vapour, will increase in response to global warming and further enhance it

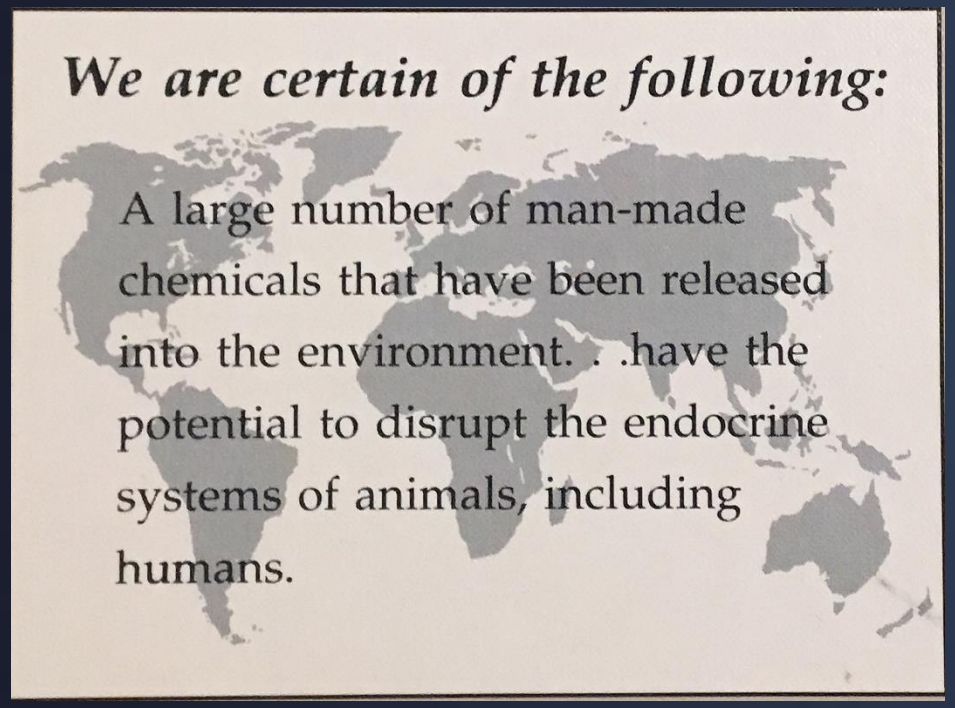
We calculate with confidence that:

- some gases are potentially more effective than others at changing climate, and their relative effectiveness

global mean temperature during the next century of about 0 3°C per decade (with an uncertainty range of 0 2°C to 0 5°C per decade), this is greater than that seen over the past 10,000 years This will result in a likely increase in global mean temperature of about 1°C above the present value by 2025 and 3°C before the end of the next century The rise will not be steady because of the influence of other factors

- under the other IPCC emission scenarios which assume progressively increasing levels of controls rates of increase in global mean temperature of about 0 2°C per decade (Scenario B), just above 0 1°C per decade (Scenario C) and about 0 1°C per decade (Scenario D)
- that land surfaces warm more rapidly than the ocean and high northern latitudes warm more than the

Wingspread 1991



We are certain of the following:

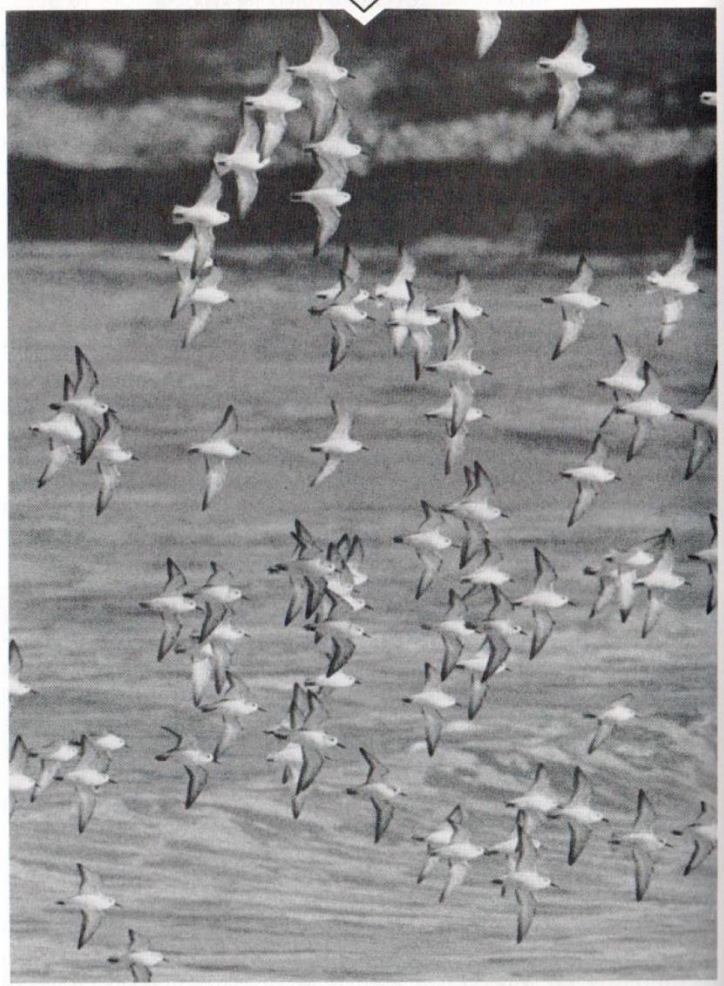
We estimate with confidence that:

Current models predict:

There are many uncertainties in our predictions because:

Our judgment is that:

To improve our predictive ability:



Most scientists agree that we are altering the climate by pouring polluting gases into the atmosphere. Changes in climate will bring changes in habitat. How will habitat-sensitive species, such as these shorebirds, cope? And what should wildlife managers do about it? *Kenneth W. Gardiner*

Global Warming, Climate Disruption, and Biological Diversity

R.T. Lester
and
J.P. Myers

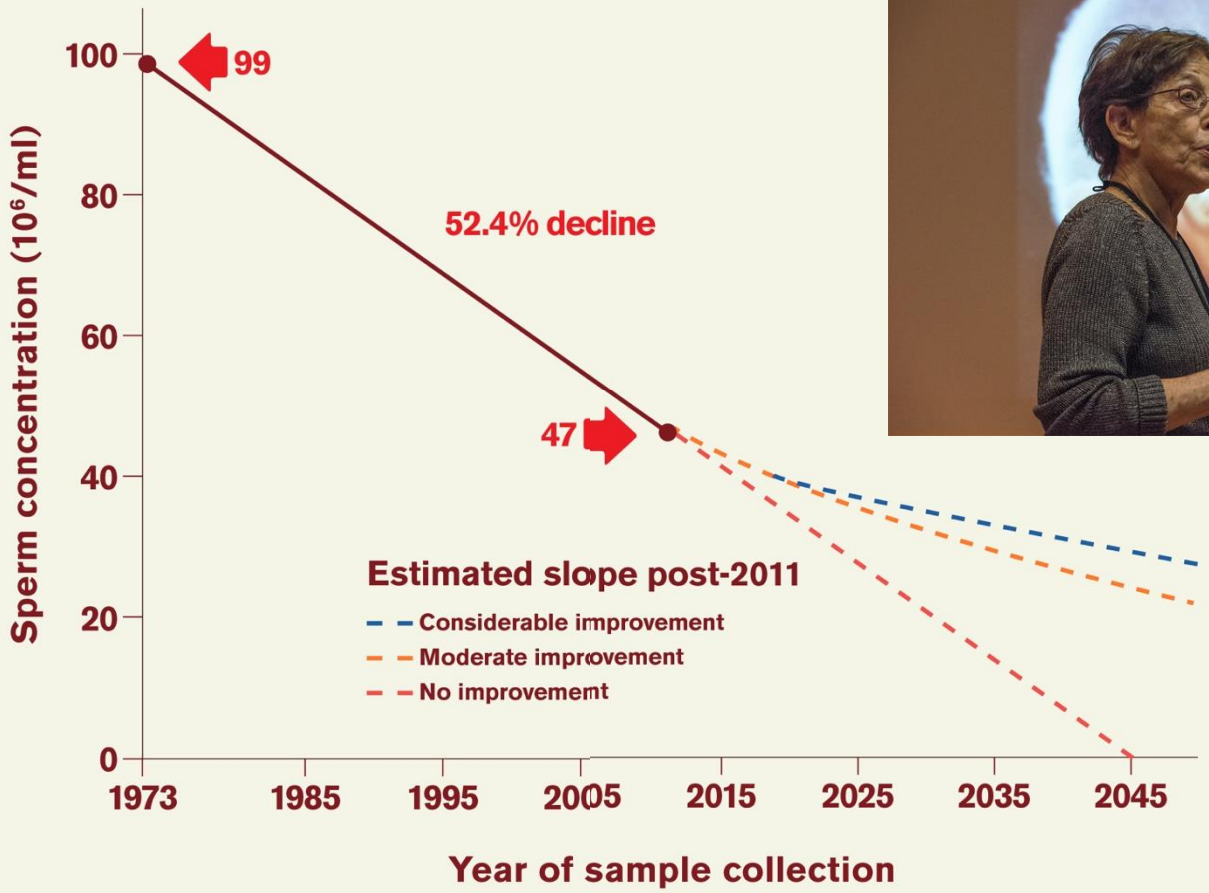
INTRODUCTION

The gaseous wastes of human activities are now so abundant that they change the physical balance setting the earth's temperature. Since the beginning of the Industrial Revolution humans have pumped carbon dioxide (CO_2) into the atmosphere at such prodigious rates that current levels are about 25 percent higher than they were in 1860. The amounts of other gases also have increased dramatically; some—for example, chlorofluorocarbons—never even existed before the beginning of the 20th century.

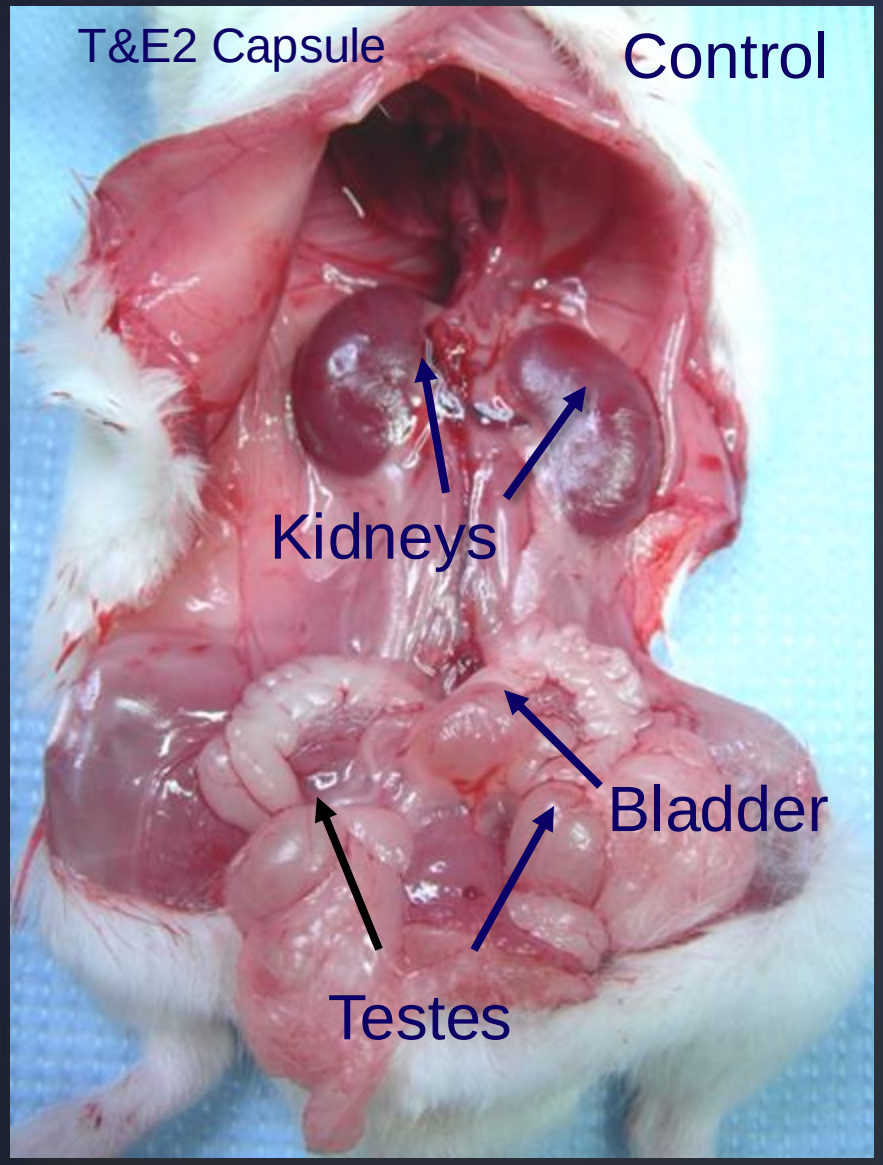
By altering the balance of these so-called greenhouse gases, humans have embarked on what two scientists has called a "large-scale geophysical experiment." Carbon dioxide, methane, and chlorofluorocarbons are virtually transparent to incoming solar radiation, yet they are very efficient at trapping the heat that is created after the radiation strikes the earth's surface. This inadvertent warming of the globe caused by changes in the composition of the atmosphere—the Greenhouse Effect—will challenge humanity and the environment in which we live in unprecedented ways.

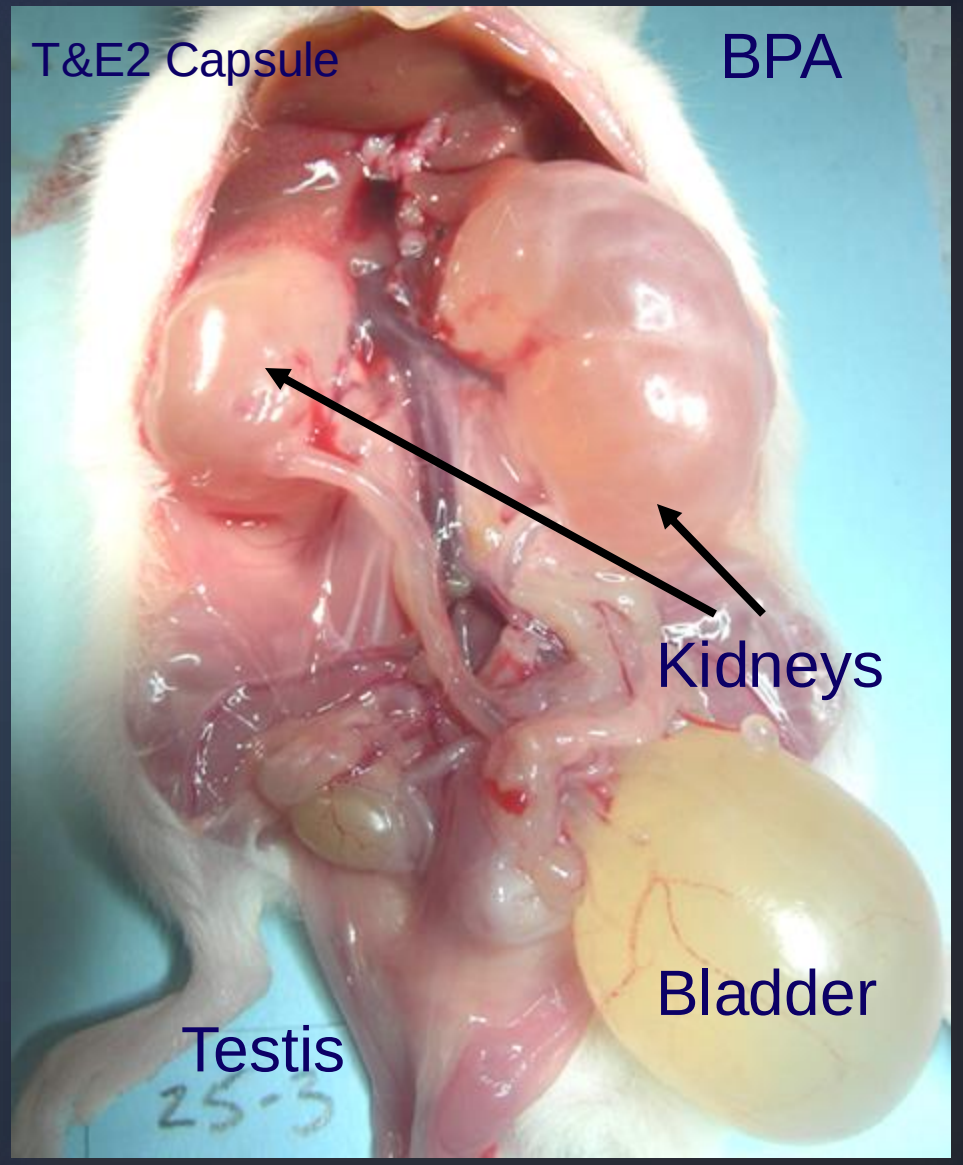

Obstructed bladder
Cardiovascular disease
Now 33 years after Wingspread
Prostate hyperplasia
Interference with chemotherapy
and 28 years after OSF
Hormone-related cancers
Premature puberty
ADHD
Pre-term birth
Allergies
Learning disabilities
Endometriosis
Infertility
Pre-eclampsia
Autoimmunity
Degenerative diseases
Asthma
Diabetes
Autism
DEATH
polycystic ovaries
Obesity
Interference with IVF

Sperm Decline in Western Countries



LEVINE ET AL 2017, GRAPH: GRANTHAM FOUNDATIO





Bell Jones *et al*. 2007

> Nat Commun. 2024 Aug 7;15(1):6367. doi: 10.1038/s41467-024-48897-8.

Male autism spectrum disorder is linked to brain aromatase disruption by prenatal BPA in multimodal investigations and 10HDA ameliorates the related mouse phenotype

Christos Symeonides [# 1 2 3], Kristina Vacy [# 4 5], Sarah Thomson [4], Sam Tanner [4], et al.

Boys born to mothers with high urinary BPA levels were 3.5 times more likely to have autism symptoms by age 2 and 6 times more likely to be diagnosed by age 11.

Why endocrine disruption?

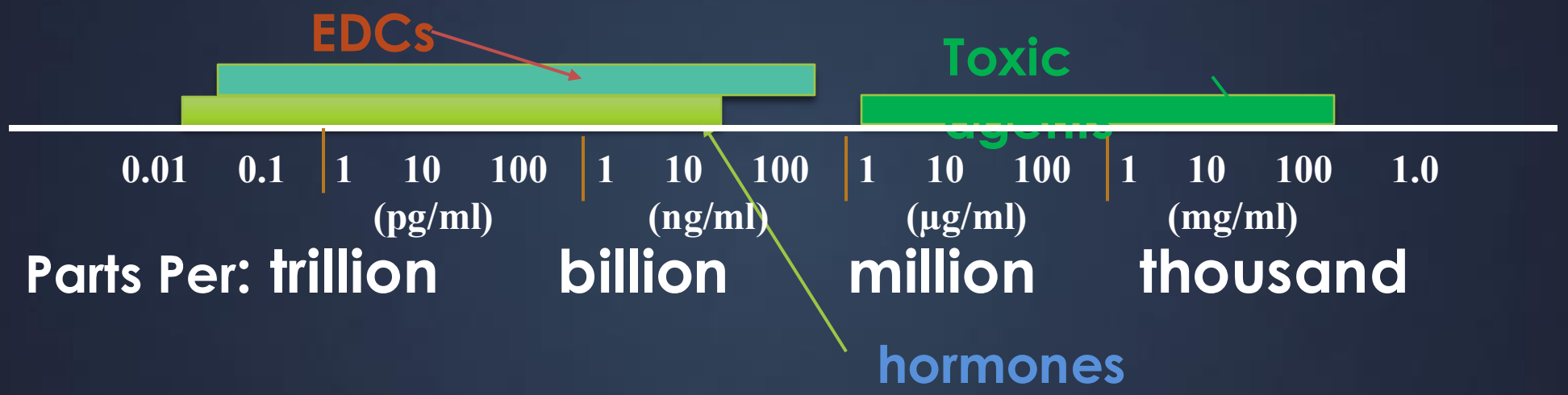
It’s not poisoning. It’s hijacking!

Hormone system is an amplifier

Effects caused by “tiny” exposures!

Traditional high dose toxicology fails

EDCs effective at very low concentrations



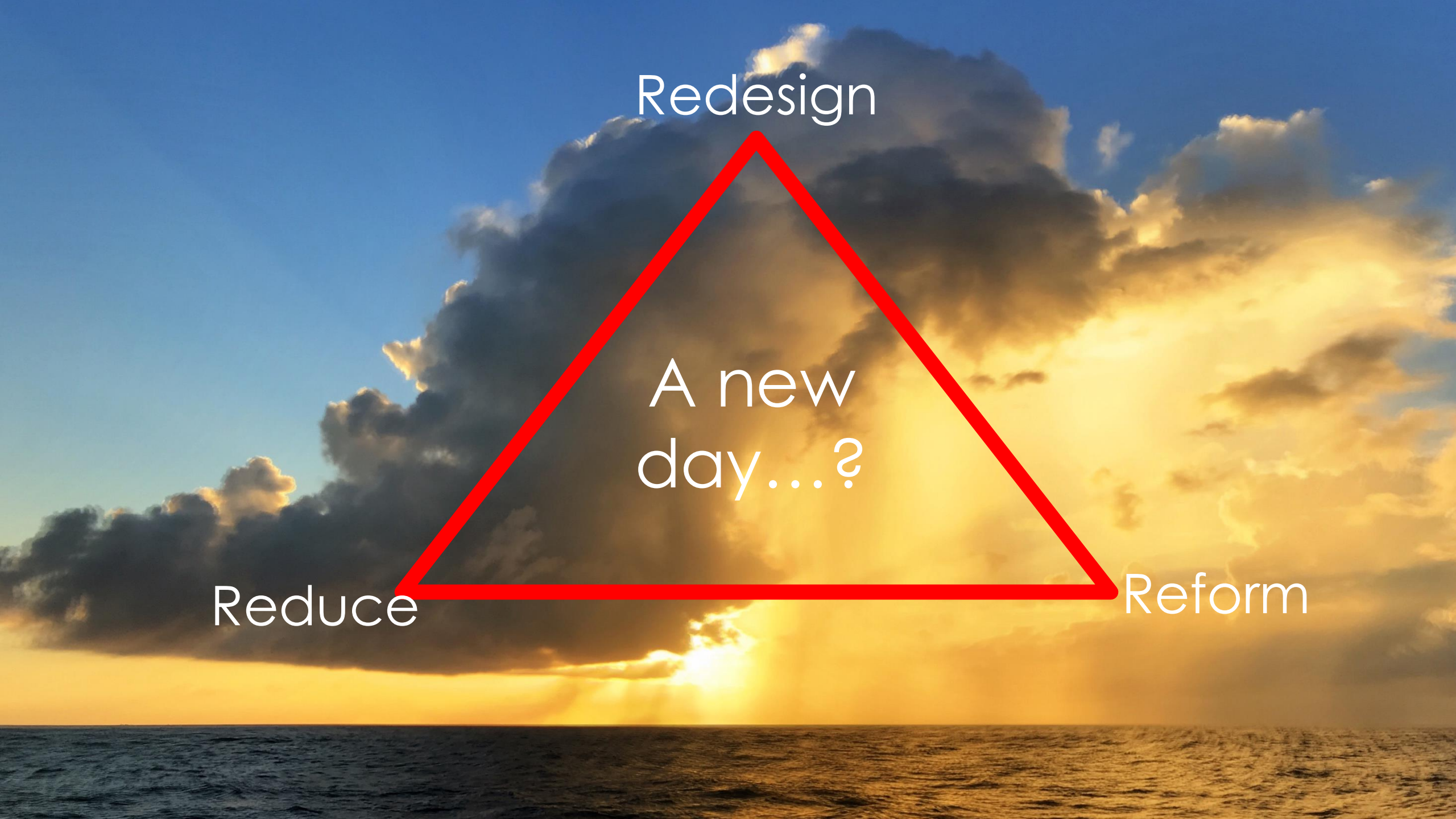
Chemical context

Are low doses really low?

What's a part per billion?

How many molecules?

2.65 trillion


Redesign
A new day…?
Reduce
Reform