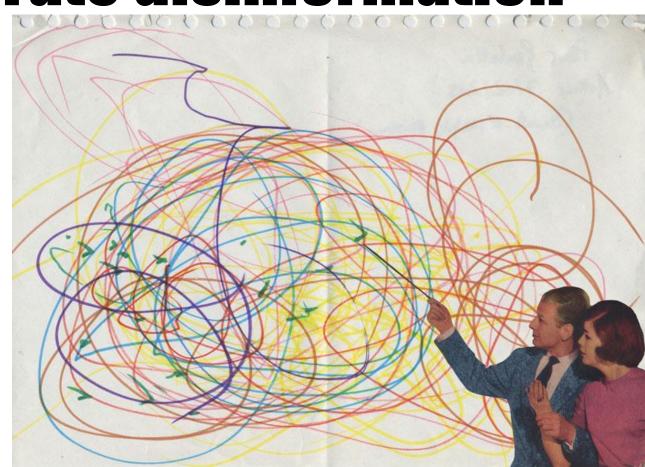
The corporate disinformation playbook

Stéphane Horel Le Monde





Who are we and why we're here

(And please no drinking nor eating in the class room)

- Me
- You
- Specific requests?



Programme

IOh-IOh20 Introduction

IOh20-I2h Session I / Lobbying, a user's guide

I2h-I3h Lunch

13h-14h30 Session 2 / Investigating front groups

14h30-15h Coffee break

Session 3 / the corporate disinformation playbook on science

Introduction Corporate harm and crime

Four industries are responsible for at least 1/3 of global deaths per year.

That's 19 million deaths.

Some estimates go up to 33 million.

Make a guess

Corporate harm and crime

```
Tobacco † 9M
Unhealthy food † 11M
Fossil fuel † 10M (air pollution)
Alcohol † 3M
```

This is an underestimate. Numerous other products (lead or opioids) or practices (pollution of water courses with toxic substances).

Commercial determinants of health Commercial determinants of the environment

Corporate political activity affects people's health

climate change air pollution chemicals pesticides processed foods plastic waste etc.

cancers
infertility
obesity
diabetes
cardiovascular diseases
mental health etc.

Commercial determinants of health Commercial determinants of the environment

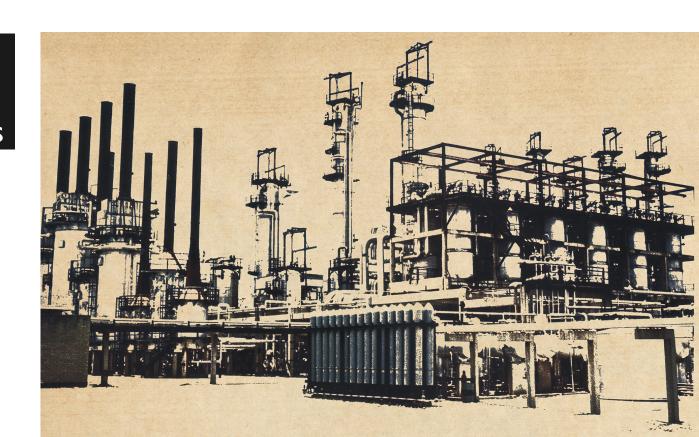
"Commercially driven ill health is the result of a pathological system in which dominant commercial entities are enabled to influence societal norms and values, political and economic systems, policies, environments, incomes, and behaviours."

Who said that? (Not Karl Marx) It's The Lancet.

Triple planetary crisis

- climate change
- pollution
- biodiversity loss

(UNEP)





Lobbying - the basics

Suppress

Water down

Hijack

Delay

Write

the law

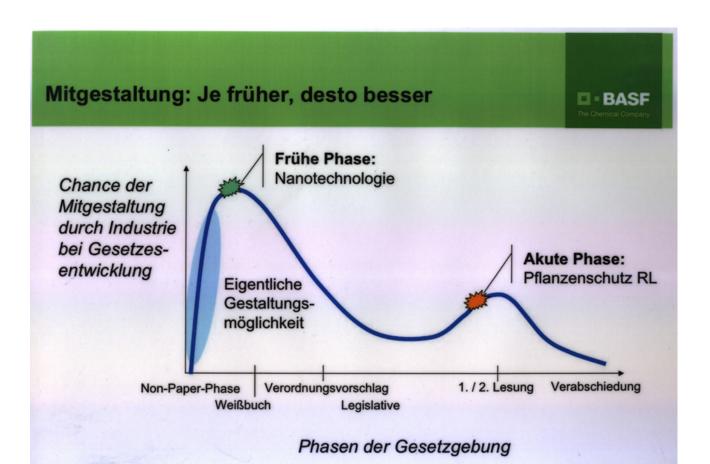


Lobbying - the basics



the right message to to the right person at the right moment

The sooner the better



Regulatory capture

"The **state**—the machinery and power of the state—is a potential resource or **threat** to every industry in the society."

"Regulation is acquired by the industry and is designed and operated primarily for its **benefit**".

(George Stigler, 1971)



Who the lobbys are

* Companies and in-house lobbyists

Bayer, BASF, Microsoft...

leaders

* Trade associations

Business Europe, CEFIC, CosmeticsEurope, AmCham...

coordinators

* Lobbying and public relations consultancies

APCO, Burson-Marsteller, Fleishman-Hillard...

door openers advisers

* Law firms

advisers

* Think tanks

European Regulation & Innovation Forum, Kangaroo Group...

third parties

* Product defense consultancies

Exponent, Gradient, Tera...

science washers



Margarida Silva SOMO



Taxonomy / the policy dystopia model

Mouti	Discursive strategy	Domain	Argument	Voice
	Expanded/Created			
	Unanticipated costs to economy and society	The economy	Policy will lead to lost sales/ jobs	Economist
			Policy will lead to lost/ unreliable tax revenue	Economist
		Law enforcement	Policy will increase illicit trade	Law enforcer
			Policy will criminalise the public	Criminologist
Discursive strategies & arguments		The law	Breach of intellectual property laws	Corporate lawyer
9			Breach of trade agreements	Trade lawyer
			Public body acting beyond jurisdiction	Administrative lawyer
		Politics/ Governance	Government is anti-free- enterprise	Concerned citizen/ Business owner
			Nanny state/slippery slope	Concerned citizen

Government is unreasonable/

Policy is unfair to smokers

unaccountable

Policy is regressive

Social justice

Concerned citizen/

Public ethicist

Public ethicist

Social reformer

Ref: <u>Ulucanlar, Fooks, Gilmore (2016)</u>

Taxonomy / the policy dystopia model

Instrumental

strategies & techniques

Information
management

Producing a skewed evidence base as

corroboration for projected policy failure

Intelligence gathering

Amplification

information/evidence

Disseminating misleading/confounding

information Contesting/suppressing public health evidence

Silencing public health opponents

Fronting: concealing industry links to

Wide dissemination of industry-sponsored

Reputation

Suppression

Credibility

Production

information/evidence Rehabilitating industry reputation

Ref: Ulucanlar, Fooks, Gilmore (2016)

management

Discrediting public health advocates

Third parties / echo chamber

Coalition management

Constituency recruitment Internal (tobacco companies and their staff)

External

Constituency fabrication









Think tanks
Front groups —> astroturfing



Exercice in the form of a case study

What is the World Vapers' Alliance and which organisation is it part of?







—>Tobacco Harm Reduction

"Harm Reduction"

= set of strategies aimed at reducing negative consequences associated with drug use. Eg methadone to give up heroin.

"Tobacco Harm Reduction"

- = encourages smokers to turn to vaping
- = used by the tobacco industry as a Trojan horse

—>Part of the Consumer Choice Center

"The World Vapers' Alliance is now an independent 501(c)(3) organization, having first been launched and now funded in part by the consumer advocacy group, Consumer Choice Center."

WVA website

Consumer Choice Center website





As a consumer advocacy group founded in 2017, we have been proud to lend our voice to different issue areas that impact ordinary people each and every day. Whether standing up for ride-sharing, smart cannabis regulation, Internet freedom, data privacy, and more, our guiding focus has been on elevating consumer choice wherever it is threatened.

To that end, we write articles in popular media, conduct research on the matters at hand, provide testimony to governmental bodies, conduct social media campaigns online, engage with issue experts and legislators, and help propel ordinary consumer advocates to defend their freedom to choose.

One crucial area of importance is that of tobacco harm reduction: ensuring that close to one billion lives can be saved thanks to harm-reducing alternative nicotine technologies and products. Many countries have vibrant and competitive markets that

But what is the Consumer Choice Center?

—> Research

- Leadership and Funders
- Ideology and Funders' funders



-> Leadership

Fred Roeder LinkedIn profile



Yaël Ossowski LinkedIn profile



—> Funders / Website

WayBack Machine

- Atlas Network
- Geneva Network
- Japan Tobacco International (which co-sponsored our launch event in Brussels)
- British American Tobacco (corporation) for their support of our tobacco harm reduction advocacy
- In 2017 we received seed funding from Students For Liberty (SFL) to start our operations in Europe and Canada.

-> Funders' funders / Tax forms

> ProPublica's **NonProfit Explorer**

US front groups and foundations are often nonprofits

- Section 501 of the U.S. tax code outlines
- 29 types of nonprofit organizations which are tax exempt
- = 501(c) + number according to type

Such as:

- 501(c)(3) Charitable, nonprofit, religious, and educational org
- 501(c)(4) Political education org
- 501(c)(6) Business league and chamber of commerce org

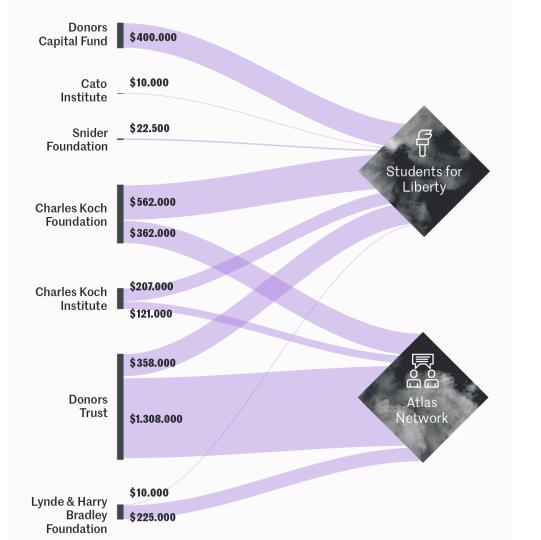


—> Funders' funders / Tax forms

What you can find in a 990 form

- Address
- Legal representative
- Budget & assets
- Leadership and compensation
- Contractors
- Grants inside and outside the US
- Activities outside the US
- => Donors undisclosed BUT donors disclose recipients





Source:

The Vapor Trail, Le Monde, 2021 Cross-border investigation with The Investigative Desk

—> Ideology

-Atlas Network

500 organisations in 98 countries.

"Vision": "a free, prosperous, and peaceful world where the principles of individual liberty, property rights, limited government, and free markets are secured by the rule of law".

Students for Liberty

In charge of educating the next generation of libertarians. Goal: "identifying those young people who are already supportive of liberty and providing them with resources to spread the ideas."

- Tobacco Industry - Strategic ally of libertarian network

Session 3 The corporate disinformation playbook on science



The profiteer of psychoanalysis



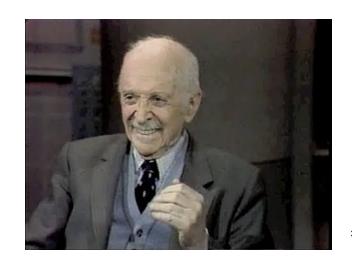
Edward Bernays (1891-1995) Freud's nephew

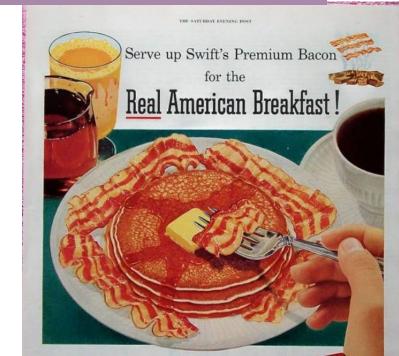
Propaganda in peace time = Public relations / spin



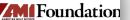
Third party strategy

"The concept is:
People will believe me more if <u>you</u> call me doctor"*





* Video



Ask the Meat Scientist





Leaked AMI internal powerpoint

Foundation

How Does This Change Your Impression?





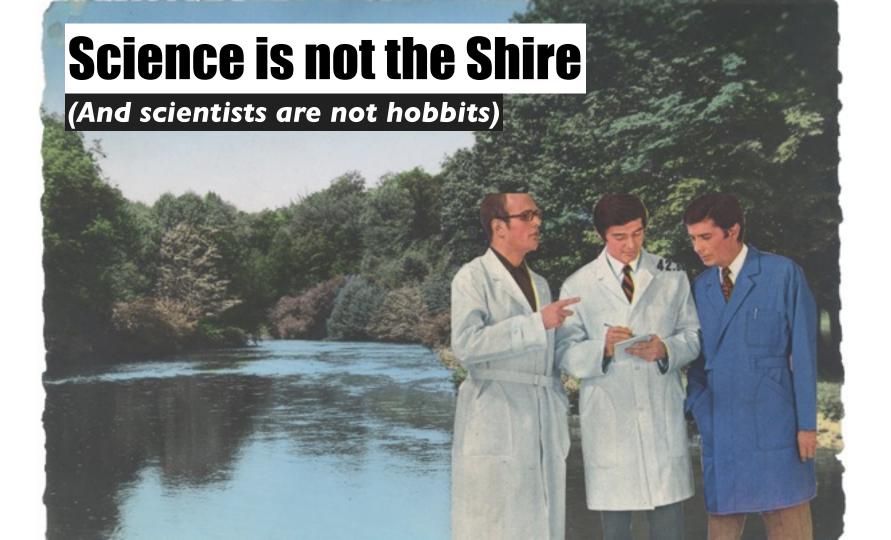
A doctor costume

Betsy Booren, Director, scientific affairs American Meat Institute



Betsy Booren, Ph. D., Director, scientific affairs AMI Fondation







the "tobacco playbook"

a toolbox of influence tactics

December 1953

- lie about the harm of cigarette
- instrumentalise science

100,000,000 deaths 20th 1,000,000,000 deaths 21th*

* Source: WHO

See original document



A Frank Statement to Cigarette Smokers

Distinguished authorities point out:

- 1. That medical research of recent years indicates many possible causes of lung cancer.
 - 2. That there is no agreement among the authorities regarding what the cause is.
 - 3. That there is no proof that eigenette smoking is one of the causes.
 - 4. That statistics purporting to link eigarette smoking with the disease could apply with equal force to any one of many other aspects of modern life. Indeed the validity of the statistics themselves is questioned by numerous scientists.

manufacturing doubt - the recipe



- 1) **Multicausality**: the disease(s) often have many origins, but it is never their product.
- 2) **Controversy**: there is no scientific consensus on the product's harmful effect(s).
- 3) **Proof**: science is reduced to a demonstration of cause and effect.
- 4) **Correlation**: a multitude of confounding factors prevent us from concluding. Besides, life itself ends up killing you.

doubt is their product

See original document

SMOKING AND HEALTH PROPOSAL

What we want to do this morning is to take a summary look at the smoking and health question and then make a proposal to you for a B&W project to counter the anti-cigarette forces.

Doubt is our product since it is the best means of competing with the "body of fact" that exists in the mind of the general public. It is also the means of establishing a controversy. Within the business we

and how we came to conflict with the awesome forces of the federal government.



TV3

Creating ignorance

1954 - 1998

Tobacco Industry sponsored **6,400** scientific articles for **\$300M**. **None** showed causality between cigarette and lung cancer.

Social construction of ignorance or "Agnotology" (Proctor 2008)

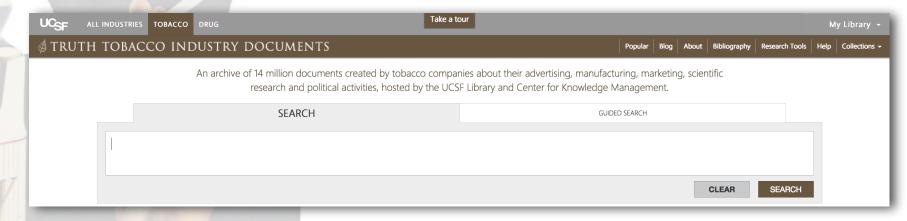


A bref history of scientific disinformation

1990s Civil lawsuit against 4 tobacco companies* by 46 US States

1998 Master Settlement Agreement

14 millions documents in UCSF database, aka The Cigarette Papers



a corporate play book

Corporations fight against "uncomfortable knowledge" (Steve Rayner 2012)

They create **controversies** by:

- highlighting uncertainty
- minimizing evidence coming from independent science
- attacking and undermining the reputations of scientists & organisations

Corporate tactics on science derive from the Tobacco matrix

⇒ the "corporate play book"

sound science

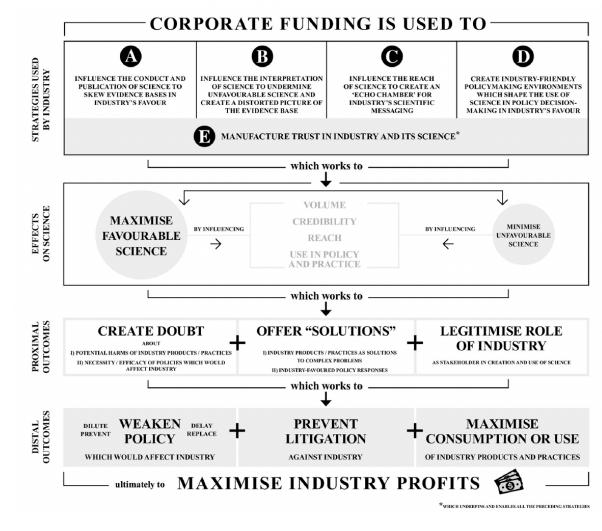
Polluters and manufacturers of hazardous products

- demand "science-based" policies
- tout "sound science"

but it only "sounds like science" (David Michaels, 2008)

Taxonomy of tactics targeting science

Ref: Legg, Hatchard, Gilmore, "The science for profit model" (2021)



5 macro strategies

- =Funding research
- =Criticising science
- =Dissemination
- =Implant
- =Partnering
- (Philanthropy & sponsoring)

Table 2. Macro and meso strategies used by each sector of industry.

Macro Strategies A-E and meso strategies 1-19 (grey cells indicate where we did not identify attempts to influence science, not evidence of lack of industry activity)	Industry sectors							
	Alcohol	Chemicals and manufacturing	Extractive	Food and drink	Fossil fuels	Gambling	Pharma and medical tech	Tobacco
A. Influence the conduct and publication of science to skew evidence bases in industry's favour	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
1. Fund and undertake "safe" research	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
2. Covertly undertake or prevent potentially "risky" industry research		√ □			√ □		√ □	√ □
 Control design and analysis of industry-funded science to ensure favourable results 	√ □	√ □	√ □	√ □	√ □		√ □	√ □
4. Shape and undermine external research			√ □	√ □		√ □		√ □
 Ensure favourable research is heavily represented in the evidence base 	√ □	√ □	√ □	√ □	√ □		√ □	√ □
6. Control reporting and suppress publication of unfavourables dence	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
B. Influence the interpretation of science to undermine unfavourable science and create a distorted picture of the evidence base	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
7. Develop and promote industry-friendly criteria and concepts for critiquing science		√ □			√ □			√ □
8. Obtain and reanalyse raw data from unfavourable science		√ □		√ □	√ □		√ □	√ □
9. Attack and misrepresent science	√ □	√ □	√ □	√□	√ □	√ □	√ □	√ □
10. Monitor and attack scientists and organisations	√ □	√ □		√□	√ □	√ □	√ □	√ □
C. Influence the reach of science to create an 'echo chamber' for industry's scientific messaging	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
11. Use legal means to protect industry evidence from being discovered or accessed		√ □	√ □				√ □	√ □
12. Contract messengers to create scientific "echo chambers"	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
 Fund, produce and disseminate materials which package science in industry-favourable ways 	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
 Use education, events, and meetings to disseminate industry-favourable scientific messages to key stakeholders 	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
 Maximise press coverage of industry-favourable scientific mes sages 	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
D. Create industry-friendly policymaking environments which shape the use of science in policy decision-making in industry's favour		√ □		√ □	√ □		√ □	√ □
16. Implement and utilise industry-friendly standards of evidence in regulatory decision-making		√ □		√ □	√ □			√ □
 Secure and utilise policymaking reforms which increase reliance on and provide a conduit for industry-favourable evidence 		√ □			√ □		√ □	√ □
E. Manufacture trust in industry and its scientific messaging	√ □	√ □	√ □	√ □	√ □	√ □	√ □	√ □
18. Manufacture a picture of industry credibility	√ □	√ □		√ □	√ □	√ □	√ □	√ □
19. Conceal industry's involvement in science, scientific messaging and influence on policy reforms that affect the use of science	√ □	√ □	√ □	√ □	√ □		√ □	√ □
Total macro (out of 5) & meso (out of 19) strategies	4(12)	5 (18)	4 (12)	5(15)	5 (17)	4 (10)	5 (16)	5 (19)

Eg. A plot to distract attention

"Project 226" (Kearns 2016)

THE NEW ENGLAND JOURNAL OF MEDICINE

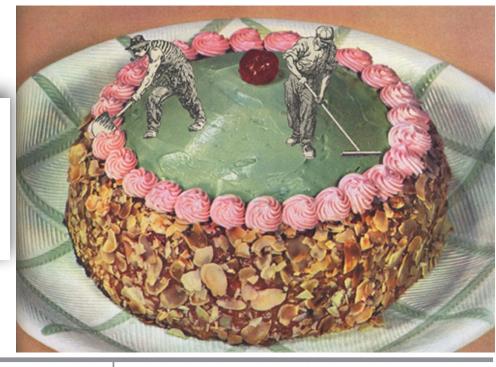
Aug. 3, 1967

MEDICAL PROGRESS

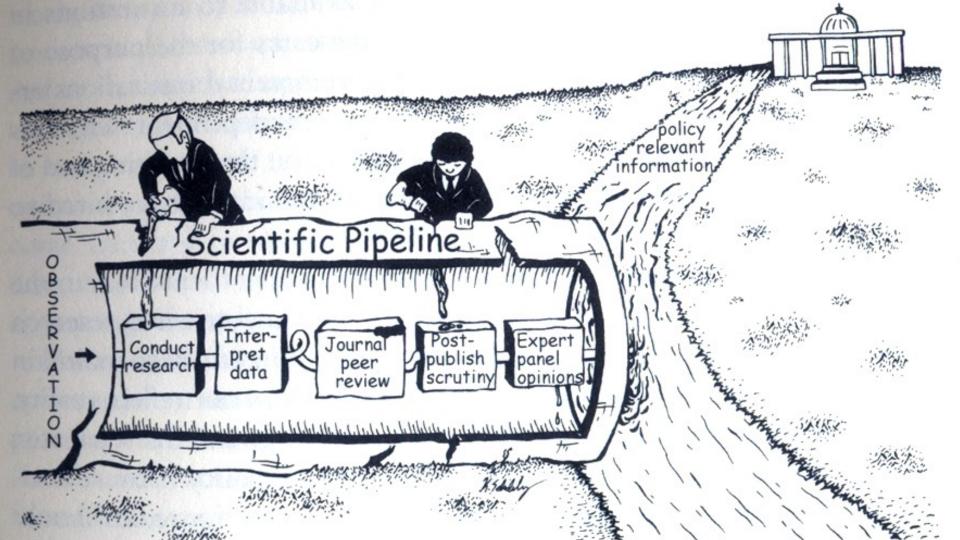
DIETARY FATS, CARBOHYDRATES AND ATHEROSCLEROTIC VASCULAR DISEASE (Concluded)*

ROBERT B. McGandy, M.D.,† D. M. HEGSTED, Ph.D.,‡ and F. J. Stare, M.D.§

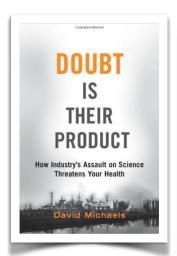
BOSTON

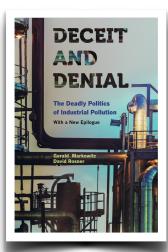


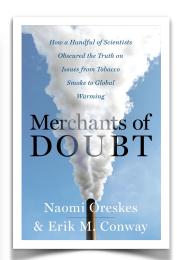
Macro strategies	Meso strategies	Micro strategies
A. Influence the conduct and publication of science	1. Fund and undertake "safe" research	1.1 Fund and undertake "safe" research which distracts attention from
to skew evidence bases in industry's favour		industry harms, frames industry and industry products as part of the
		'solution', and promotes interventions that minimise damage to
		product sales

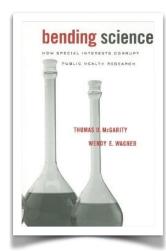


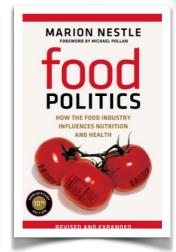
Good reads

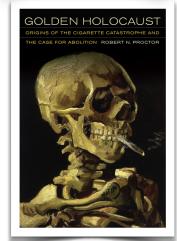


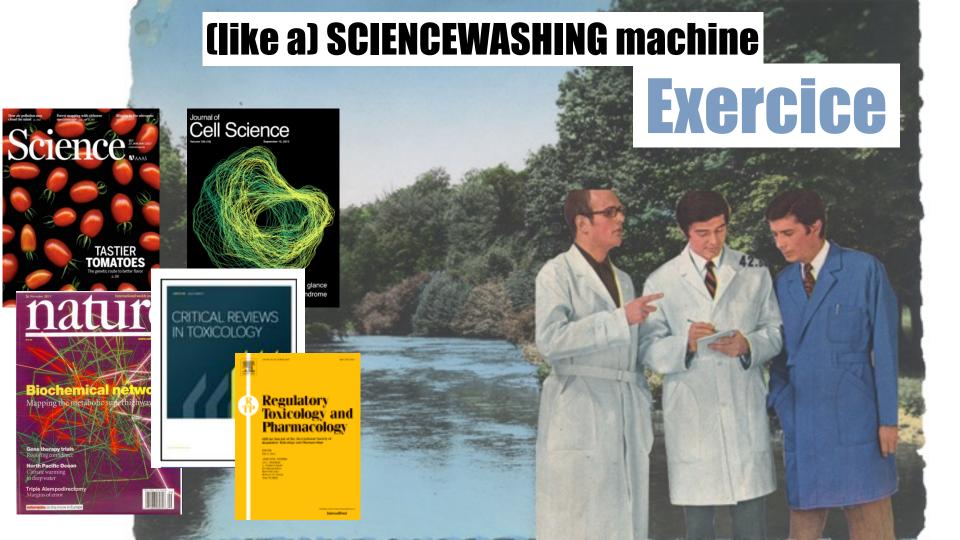












How independent is this scientific article?

Level I



Contents lists available at ScienceDirect

Regulatory Toxicology and Pharmacology

journal homepage: www.elsevier.com/locate/yrtph



Critical comments on the WHO-UNEP State of the Science of Endocrine Disrupting Chemicals – 2012



James C. Lamb IV ^{a,*}, Paolo Boffetta ^b, Warren G. Foster ^c, Julie E. Goodman ^d, Karyn L. Hentz ^a, Lorenz R. Rhomberg ^d, Jane Staveley ^a, Gerard Swaen ^e, Glen Van Der Kraak ^f, Amy L. Williams ^a

^a Exponent, 1800 Diagonal Road, Suite #500, Alexandria, VA 22314, USA

^b The Tisch Cancer Institute and Institute for Translational Epidemiology, Icahn School of Medicine at Mount Sinai, 17 East 102 Street Floor West Tower, 5th Floor Room 5-142, New York, NY 10029, USA

^c Department of Obstetrics & Gynecology, McMaster University, 1280 Main Street West, Hamilton, ON L8S 4K1, Canada

d Gradient, 20 University Road, Cambridge, MA 02138, USA

^e Exponent, The Lenz, 1st Floor, Hornbeam Park, Harrogate HG2 8RE, UK

^fDepartment of Integrative Biology, University of Guelph, Guelph, ON N1G 2W1, Canada



Contents lists available at ScienceDirect

Regulatory Toxicology and Pharmacology

journal homepage: www.elsevier.com/locate/yrtph



Critical comments on the WHO-UNEP State of the Science of Endocrine Disrupting Chemicals – 2012



James C. Lamb IV ^{a,*}, Paolo Boffetta ^b, Warren G. Foster ^c, Julie E. Goodman ^d, Karyn L. Hentz ^a, Lorenz R. Rhomberg ^d, Jane Staveley ^a, Gerard Swaen ^e, Glen Van Der Kraak ^f, Amy L. Williams ^a

ARTICLE INFO

ABSTRACT

Article history: Received 4 December 2013 Available online 13 February 2014 Early in 2013, the World Health Organization (WHO) released a 2012 update to the 2002 *State of the Science of Endocrine Disrupting Chemicals*. Several significant concerns have been identified that raise questions about conclusions reached in this report regarding endocrine disruption. First, the report is not a state-

^a Exponent, 1800 Diagonal Road, Suite #500, Alexandria, VA 22314, USA

b The Tisch Cancer Institute and Institute for Translational Epidemiology, Icahn School of Medicine at Mount Sinai, 17 East 102 Street Floor West Tower, 5th Floor Room 5-142, New York, NY 10029, USA

^c Department of Obstetrics & Gynecology, McMaster University, 1280 Main Street West, Hamilton, ON L8S 4K1, Canada

d Gradient, 20 University Road, Cambridge, MA 02138, USA

e Exponent, The Lenz, 1st Floor, Hornbeam Park, Harrogate HG2 8RE, UK

^f Department of Integrative Biology, University of Guelph, Guelph, ON N1G 2W1, Canada

Product-defense consultancies





ABOUT GRADIENT SERVICES & PROJECTS PEOPLE **EVOLVING ISSUES**

NEWS & EVENTS PUBLICATIONS CAREERS CONTACTUS

Principals

Senior Scientists

Line A. Balley Nicole L Briggs Joel M. Cohen Travis J. Cook David G. Dodge Eric M. Dube Grace I. Greenberg Mary L. Hison Laura E. Kerper Jessie M. Kneeland Cynthia J. Langlois Julio C. Lemay Laurent C. Levy Tamara D. Lunaman Heather N. Lynch Rosemary L. Mattuck David B. Mayfield Matthew J Mayo Michael K. Peterson Daniella M. Pizzurro Margaret C. Pollock Robyn L. Prueltt Kathleen A. Radloff Jeffrey T. Rominger Mars R. Seeley Moghna H. Swams Caroline B. Tult Matthew P. Tymchak Jary Zhane

Research & Information Specialists

Kirsten (Ke) Zu

Senior Scientists

Gradient is proud to have a diverse, skilled, and well-trained technical staff who work collaboratively to manage our projects, perform research, and deliver innovative solutions with superior quality.



Lisa A. Bailey, Ph.D. Senior Toxicologist

Molecular Biology & Carcinogenesis

Mode-of-action Analyses Human Exposure Risk Assessment DNA Damage, Repair and

Mucagenesis

weight of Evidence



Travis J. Cook, Ph.D. Toxicologist Expertise Metals Risk Assessment

Taxicolasty Neurotoxicalogy Industrial Hygiene



Nicole L. Briggs, Ph.D. Senior Air Quality Scientist

Exposure Assessment Air Dispersion Modeling Air Quality Monitoring Sources, Sinks, and Transport of Air Pollutants: Olimate Science

David G. Dodge,

M.S., DABT, CIH

Senior Toxicologist

lak Communication

Human Health Risk

Litigation Support

Applied Toxicology

Industrial Hygiene

Decupational Exposure

Assessment

Assessment



Joel M. Cohen, Sc.D. Senior Toxicologist

nhallation Texicology Human Health Bick: Product Safety Alternative Assessment Nanotechnology

Skin Sensitization

Arsenic

Barium

Benzene

BTEX

DDT

Dioxins

EMF and RF

Beryllium

Chlordane

Chromium

Asbestos



Eric M. Dubé, M.P.H. Senior Environmental Health Scientist

Expertise Human Health Risk Assessment Exposure Study Design and Oversight Taxicology Study Management Posticide Registration Science Support **GRAS Notifications**





Grace I. Greenberg. M.P.H. Senior Toxicologist

Expertise



Mary L. Hixon. Ph.D. Senior Toxicologist Reproductive and

Developmental





General and Molecular

Chemicals We Have Worked On

In our projects, we have addressed chemicals ranging from naturally occurring substances to chemical process intermediates and from substances reflecting centuries of scientific observations to newly emerging concerns. The following list is a sample of some of the chemicals and exposures we have worked on:



Antimicrobials Flame Retardants Formaldehyde **Heavy Metals** Lead Manganese Mercury Bisphenol A (BPA) MGP Chemicals MTBE Nanoparticles Naphthalene Nickel Diesel Exhaust NO₂ **Dietary Supplements** Ozone **PAHs** DNAPL and LNAPL **PCBs** PCE **Endocrine Disruptors** X-Rays

Perchlorate Pesticides Petroleum Hydrocarbons **Pharmaceuticals Plasticizers** PM_{2.5} **Propellants** Radionuclides SO_2 Solvents Styrene Tars

VOCs Perfluorinated Chemicals

TCE

Vinyl Chloride



vCard

vCard

vCard

vCard

vCard

vCard

—>Who sponsored it? / Funding effect

Critical comments on the WHO-UNEP State of the Science of Endocrine Disrupting Chemicals – 2012



James C. Lamb IV ^{a,*}, Paolo Boffetta ^b, Warren G. Foster ^c, Julie E. Goodman ^d, Karyn L. Hentz ^a, Lorenz R. Rhomberg ^d, Jane Staveley ^a, Gerard Swaen ^e, Glen Van Der Kraak ^f, Amy L. Williams ^a

^a Exponent, 1800 Diagonal Road, Suite #500, Alexandria, VA 22314, USA

This re-

view has been conducted with funding support from several sponsors: American Chemistry Council (ACC), CropLife America (CLA), CropLife Canada (CLS), CropLife International (CLI), European Chemical Industry Council (Cefic), and European Crop Protection Association (ECPA). These sponsors were provided an opportunity to review a draft of the paper and offer comments for consideration by the authors.

—>Who owns this journal?



Contents lists available at ScienceDirect

Regulatory Toxicology and Pharmacology

journal homepage: www.elsevier.com/locate/yrtph



Wayback Machine

Editor: Gio B. Gori

International Society of Regulatory Toxicology & Pharmacology

Sponsors 2007 Sponsors 2006

SPEER Suzanne (BEPA)

@cefic.be> on behalf of From: @cefic.be> Monday 17 March 2014 16:32 Sent: (ENV); (ENV); To: (ENTR): (ENTR): (SANCO): @ec.europa.eu; (SANCO); (SANCO); EC CSA; @ec.europa.eu.; @ec.europa.eu; (TRADE); (TRADE): (TRADE): (TRADE): (TRADE); @ec.europa.eu; (RTD): (RTD): 1 (RTD); (SG): I (AGRI); (AGRI): (AGRI): @ec.europa.eu; @ec.europa.eu; (JRC-ISPRA): (JRC-ISPRA); (SG); (SG) - ECPA (European Crop Protection Association) Cc: Review of the WHO-UNEP State of the Science on Endocrine Disrupting Chemicals 2012 Subject: Joint statement from ACC Cefic CLA CLC CLI ECPA on review of WHO-UNEP r...pdf: Attachments: FINAL Report - Critical Review of WHO-UNEP 2012 State of the Science onpdf Importance: High

Dear Sir or Madam,

Re: Review of the WHO-UNEP State of the Science on Endocrine Disrupting Chemicals 2012

In early 2013 the United Nations Environment Programme (UNEP) and the World Health Organization (WHO) published a report entitled, "State of the Science on Endocrine Disrupting Chemicals – 2012" which was accompanied by a "Summary for Decision Makers". At the time the general chemicals and crop protection products industries both in Europe and the US held significant concerns with the report(s). Our industries therefore jointly commissioned a scientific review of the WHO-UNEP report which has now been published in the scientific journal Regulatory Toxicology and Pharmacology.

How independent is this scientific article?

Level 2

Toxicology Letters xxx (2013) xxx-xxx



Contents lists available at ScienceDirect

Toxicology Letters



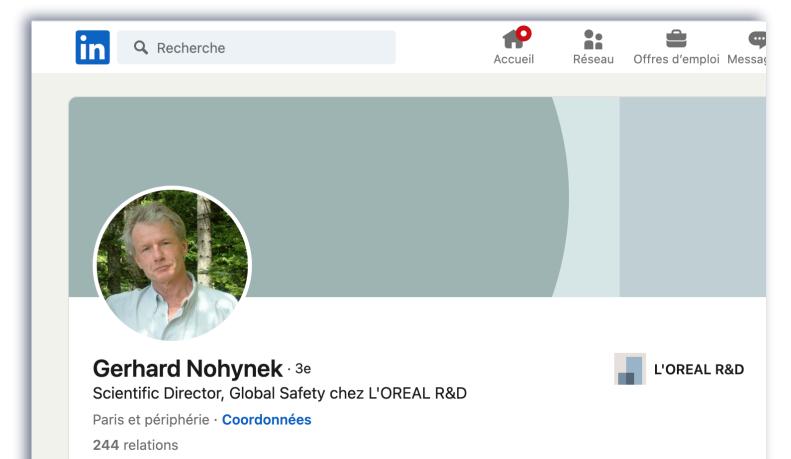


- Endocrine disruption: Fact or urban legend?
- ₂ Q1 Gerhard J. Nohynek ^{a,*}, Christopher J. Borgert ^b, Daniel Dietrich ^c, Karl K. Rozman ^d
- ^a Les Caillons, 58460 Corvol, L'Orgueilleux, France
- b Center for Environmental and Human Toxicology, Department of Physiological Sciences, University of Florida College of Veterinary Medicine, Gainesville,
- 32605 Fl, United States
- ^c Faculty of Biology, University of Konstanz, 78457 Konstanz, Germany
- d University of Kansas Medical Center, Department of Pharmacology, Toxicology and Therapeutics, Kansas City, KS 66160, United States

HIGHLIGHTS

1

—> Who are you, Gerhard Nohynek ?



—> Disclosures are not enough

Conflict of interest

The opinions forwarded in the article represent personal opinions of the authors and are proposed with the aim to improve the safety assessment of personal care products. The authors received no support or compensation for writing the article. They therefore declare no conflict of interest.

- Sometimes disclosures do not reflect reality
- -There is no sanction in case of omissions and errors

How independent is this 2016 glyphosate review?

Level 3



Glyphosate rodent carcinogenicity bioassay expert panel review

Gary M. Williams, Colin Berry, Michele Burns, Joao Lauro Viana de Camargo & Helmut Greim

Glyphosate epidemiology expert panel review: a weight of evidence systematic review of the relationship between glyphosate exposure and non-Hodgkin's lymphoma or multiple myeloma

John Acquavella, David Garabrant, Gary Marsh, Tom Sorahan & Douglas L. Weed

A review of the carcinogenic potential of glyphosate by four independent expert panels and comparison to the IARC assessment

Gary M. Williams, Marilyn Aardema, John Acquavella, Sir Colin Berry, David Brusick, Michele M. Burns, Joao Lauro Viana de Camargo, David Garabrant, Helmut A. Greim, Larry D. Kier, David J. Kirkland, Gary Marsh, Keith R. Solomon, Tom Sorahan, Ashley Roberts & Douglas L. Weed

Glyphosate in the general population and in applicators: a critical review of studies on exposures

Keith R. Solomon

Genotoxicity Expert Panel review: weight of evidence evaluation of the genotoxicity of glyphosate, glyphosate-based formulations, and aminomethylphosphonic acid

David Brusick, Marilyn Aardema, Larry Kier, David Kirkland & Gary Williams

-> Context

March 2015, the International Agency for research on Cancer (IARC), a UN agency, classified glyphosate as

"probably carcinogenic to humans" (Group 2A).



—> Can <u>Intertek</u> be neutral?

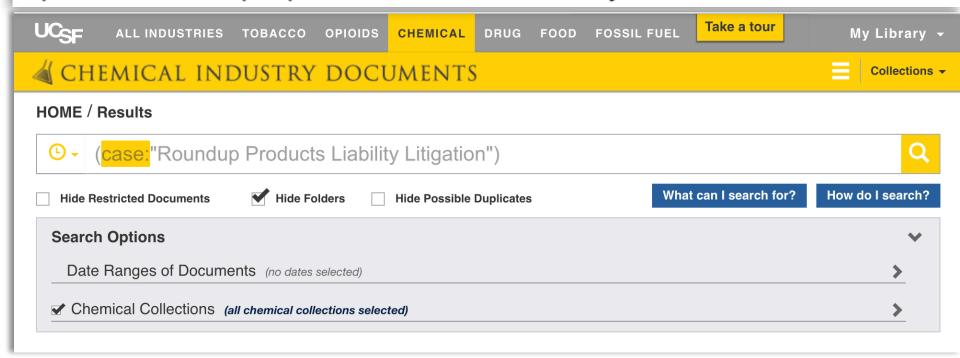
Declaration of interest

The employment affiliation of the authors is as shown on the cover page. However, it should be recognized that each individual participated in the review process and preparation of this paper as an independent professional and not as a representative of their employer.

The expert panel Members recruitment and evaluation of the data was organized and conducted by Intertek Scientific & Regulatory Consultancy (Intertek). The expert panelists were engaged by, and acted as consultants to, Intertek, and were not directly contacted by the Monsanto Company. Funding for this evaluation was provided to Intertek by the Monsanto Company, which is a primary producer of glyphosate and products containing this active ingredient. Neither any Monsanto company employees nor any attorneys reviewed any of the expert panel's manuscripts prior to submission to the journal.

Intertek (previously Cantox) is a consultancy firm that provides scientific and regulatory advice, as well as safety and efficacy evaluations for the chemical, food, and pharmaceutical industries. While Intertek has not

and products containing this active ingredient. Neither any Monsanto company employees nor any attorneys reviewed any of the expert panel's manuscripts prior to submission to the journal.



Where you can find the "Monsanto papers"

From: HEYDENS, WILLIAM F [AG/1000] [/O=MONSANTO/OU=NA-1000-01/CN=RECIPIENTS/CN=230737]

Sent: 2/9/2016 11:43:08 PM

To: Ashley Roberts Intertek

Subject: RE: summary article

Summary Manuscript Draft 2 0 Feb 5 2016_jfa_wfh.docx

Message

Attachments:

OK, I have gone through the entire document and indicated what I think should stay, what can go, and in a couple spots I did a little editing. I took a crack at adding a little text on page 10 to address John's comments about toxicologists' use

Greim "et al." (indeed) 2015

REVIEW ARTICLE

Evaluation of carcinogenic potential of the herbicide glyphosate, drawing on tumor incidence data from fourteen chronic/carcinogenicity rodent studies



¹Technical University Munich, Arcisstr. 21, 1333 Munich, Germany, ²Monsanto Company, 800 North Lindbergh Blvd., 63167 St. Louis, MO, USA, ³ADAMA MAH BV Amsterdam NL Schaffhause, Branch, Spitalstrasse 5, 8200 Schaffhausen, Switzerland, ⁴Knoell Consult GmbH, Dynamostr. 19, 68165 Mannheim, Germany, ⁵Extera, Nelly-Sachs-Str. 37, 10764 Langenfeld, Germany, and ⁶Glyphosate Task Force, http://www.glyphosatetaskforce.org/







From: HEYDENS, WILLIAM F [AG/1000]
Sent: Monday, May 11, 2015 5:36 PM
To: KOCH, MICHAEL S [AG/1000]; FARMER, DONNA R [AG/1000]; HODGE-BELL, KIMBERLY C [AG/1000]; SALTMIRAS, DAVID A [AG/10001

Subject: RE; Post-IARC Activities to Support Glyphosate

All,

Here is what I think I heard (and 1 question) in our meeting today – please send any corrections/additions

Conduct & publish Meta-analysis

We will recommend proceeding with this

Publish updated AHS study data

- We will recommend proceeding with this
- David will check at HARC meeting next week if there is interest in CLA requesting data for all chemistries

Genetox/MOA

- Set-up 1 hr meeting with Gary Williams & Larry Kier to better understand what could be done (who had this action item?) I think this was Donna's action item.
- Manuscript to be initiated by MON as ghost writers
- It was noted this would be more powerful if authored by non-Monsanto scientists (e.g., Kirkland, Kier,
 Williams, Greim and maybe Keith Solomon)





David Saltmiras

Sent:

Subject:

8/4/2015 2:13:30 PM **Glyphosate Activities**

, ghost wrote cancer review paper Greim et al. (2015),

Must check

- Regulatory or legal context
- State of the science on the topic
- Taxonomies of tactics
- Funding
- Authors' affiliations
- Disclosures
- Wikis



Don't be impressed by a scientific title or a white coat

Lessons learned from your side

Next steps / networking





TOOLS Corporate Disinformation Playbook

Index

EU things
All in one
Transparency
FOI

Corporate things
Always
Wikis and similar ressources
Follow the money
Industry archives

Science things
Scientific articles
Conflict of interest

Reading list
Academic papers
Books

EU things

All in one

Corporate Europe Research Toolkit

https://corporateeurope.org/en/researching-corporate-lobbying-eu

Transparency

Lobbyfacts

https://www.lobbyfacts.eu/

EU Transparency register

https://ec.europa.eu/transparencyregister/public/homePage.do?redir=false&locale=en

Integrity Watch (meetings)

https://www.integritywatch.eu/

EU legislative processes

https://parltrack.org/

Register of Commission's expert groups

https://ec.europa.eu/transparency/expert-groups-register/screen/home?lang=en

FOI

Ask the EU

https://www.asktheeu.org/

FOI EU Commission

https://ec.europa.eu/transparency/documents-request/request-submission

Who's who EU

https://op.europa.eu/en/web/who-is-who

Corporate things

Always

Wayback Machine - Internet archive https://archive.org/web/

Wikis and similar ressources

Tobacco Tactics

https://tobaccotactics.org/

SourceWatch

https://www.sourcewatch.org/index.php?title=SourceWatch

PowerBase

https://powerbase.info/index.php/Main Page

DeSmog

https://www.desmog.com/databases/

Climate Disinformation Database

https://www.desmog.com/climate-disinformation-database/

Koch Network Database

https://www.desmog.com/koch-network-database/

Air Pollution Lobbying Database

https://www.desmog.com/air-pollution-lobbying-database/

Agribusiness Database

https://www.desmog.com/agribusiness-database-/

WikiCorporates

https://www.wikicorporates.org/wiki/Main_Page

OpenSecrets

https://www.opensecrets.org/

Follow the money

Open Corporates

(database of companies. Sign in to access all features)

https://opencorporates.com/

OpenSecrets (USA)

https://www.opensecrets.org/

ProPublica's NonProfit Explorer (set up alert for updates)

https://projects.propublica.org/nonprofits/

ProPublica's Resources for Investigating Tax-Exempt Organizations

https://www.propublica.org/nerds/resources-for-investigating-tax-exempt-organizations

The Center for Public Integrity's NonProfit Network = nonprofits funding non-profits (2010-2015)

https://publicintegritv.org/politics/search-the-nonprofit-network/

Conservative Transparency (money flow among US conservative donors, organizations, and candidates – last update: 2014)

http://conservativetransparency.org/

Industry archives

UCSF Industry archives

All industries

https://www.industrydocuments.ucsf.edu/

Tobacco

https://www.industrydocuments.ucsf.edu/tobacco/

Opioids

https://www.industrydocuments.ucsf.edu/opioids/

Chemicals

https://www.industrydocuments.ucsf.edu/chemical/

including Monsanto papers (Roundup Products Liability Litigation)

https://www.industrydocuments.ucsf.edu/chemical/results/#q=(case%3A%22Roundup%20Products%20Liability%20Litigation%22)&h=%7B% 22hideDuplicates%22%3Afalse%2C%22hideFolders%22%3Atrue%7D&subsite=chemical&cache=true&count=373

Drugs/Pharmaceuticals

https://www.industrydocuments.ucsf.edu/drug/

Food

https://www.industrydocuments.ucsf.edu/food/

Fossil Fuel

https://www.industrydocuments.ucsf.edu/fossilfuel/

Toxic docs

https://www.toxicdocs.org/

Science things

Scientific articles

Pubmed

https://pubmed.ncbi.nlm.nih.gov/

Sci-hub

https://fr.wikipedia.org/wiki/Sci-Hub

Conflict of interest

Euros for docs

https://eurosfordocs.eu/

Dollars for docs

https://projects.propublica.org/docdollars/

Dollars for profs

https://projects.propublica.org/dollars-for-profs

Check declarations of interest (DOIs) in journals

Check DOIs in agencies (all scientific and regulatory bodies, international and national, have disclosure policies)

European Food Safety Authority (EFSA)

https://ess.efsa.europa.eu/doi/doiweb/doisearch

European Medicines Agency (EMA)

https://www.ema.europa.eu/en/about-us/how-we-work/european-medicines-regulatory-network/european-experts

etc

Reading list

Academic papers

Legg 2021 | The Science for Profit Model—How and why corporations influence science and the use of science in policy and practice https://iournals.plos.org/plosone/article/authors?id=10.1371/iournal.pone.0253272

Ulucanlar 2016 | The Policy Dystopia Model: An Interpretive Analysis of Tobacco Industry Political Activity

https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1002125

The Lancet series – Commercial determinants of health, March 2023

https://www.thelancet.com/series/commercial-determinants-health

Rebecca F. Goldberg & Laura N. Vandenberg | The science of spin: targeted strategies to manufacture doubt with detrimental effects on environmental and public health

https://ehjournal.biomedcentral.com/articles/10.1186/s12940-021-00723-0 Stanton Glantz et al. on Tea Party

Books

Naomi Oreskes, Erik Conway – Merchants of doubt

Robert Proctor – Golden Holocaust, Origins of the Cigarette Catastrophe and the Case for Abolition

Marion Nestle - All :) including:

Food Politics

Soda Politics

Unsavory Truths

David Michaels – Doubt is their product

Jennifer Jacquet - The Playbook: How to Deny Science, Sell Lies, and Make a Killing in the Corporate World

bending science

Gerald Markowitz, David Rosner - Deceit and Denial - The Deadly Politics of Industrial Pollution

Jane Mayer – <u>Dark Money</u>

In French

Stéphane Foucart – La fabrique du mensonge. Comment les industriels manipulent la science et nous mettent en danger.

Stéphane Horel – Lobbytomie. Comment les lobbies empoisonnent nos vies et la démocratie.